Product Catalogue

Complete IP Video Security Solutions



World Class Hardware • Open Architecture • Resilient Recording
Market Leading Management Software

Leapa
» together we see farther »

總代理 Distributer:

利百安有限公司 Leapa Limited
T: +852 3426 3690
F: +852 3426 9678
E: sales@leapa.net
W: www.leapa.net

IndigoVision

www.indigovision.com

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Icon Introduction



Choosing the product that is right for you can be a complex task, especially when faced with such a large range of products and so many different features.

We have made this easier with our simple user-friendly icons. Each icon represents a feature or benefit, so all you need to do is pick the icons you are interested in and look out for them in the datasheets.

Sensor



High Definition (HD)

Video standard including 720p (1280 x 720) and 1080p (1920 x 1080).



5 Megapixel (5MP)

High resolution (2592 x 1944) with 4:3 aspect ratio.



Ultra-High Resolution (5K)

Higher quality than conventional HD or MP. 5120 x 3840 pixels provide more detailed footage.



Day/Night

A mechanical infrared (IR) filter allows the camera to operate normally during the day and then switch to mono as it grows darker.



Low Light

Allows images and footage to be captured at night or in areas where light levels are between 0.5 and 0.01 lux.



Wide Dynamic Range (WDR)

Captures images in high-contrast lighting conditions.



Dual Wide Dynamic Range

Captures images in high-contrast lighting conditions by using two pixels for light and dark. Significantly better than standard WDR.



Image Stablisation

A means of cancelling out any natural movement of a camera due to wind or vibration.

Compression



H.264

A motion-based video compression format.



IndigoVision H.264

Optimised H.264 video codec meaning lower bandwidth and reduced storage.



JPEG2000

A still-image compression standard that allows images to be displayed in multiple resolutions.



MJPEG

Motion JPEG – a stills-based video compression format.



Guaranteed 25fps

25 frames per second (fps) is guaranteed at maximum resolution using IndigoVision's unique video processing technology.



Up to 6fps

The camera can stream at a rate of 6 frames per second (fps) at maximum resolution.



Up to 12fps

The camera can stream at a rate of 12 frames per second (fps) at maximum resolution.



Up to 25fps

The camera can stream at a rate of 25 frames per second (fps) at maximum resolution.



Field Programmable Gate Array (FPGA)

Hardware processor used to encode video, ensures guaranteed frame rate.



Advanced Audio Coding (AAC)

An audio compression and encoding format. It delivers higher quality audio than traditional G.711 format.



G.711

An audio compression format commonly used in digital transmission systems. It samples at 8Khz and streams at 64kbps.

Intelligence



Activity Controlled Frame Rate (ACF)

Frame rate reduces when no motion is detected using basic analytics – up to 90% reduction in storage requirements.



Activity Controlled Frame Rate + (ACF+)

Reduces frame rate when no motion is detected using advanced analytics. Greater than 90% reduction in storage requirements.



Analytics

Advanced video analytics including: object detection, virtual tripwire, museum mode and object counter-flow.



Motion Detection

Basic video analytics covering simple motion.

Icon Introduction

Other



Distributed Network Architecture (DNA)

Intelligence is at the edge of the system with no reliance on a central server; provides resilience and redundancy.



Power over Ethernet (PoE)

Devices draw power and data from a single Ethernet cable, simplifying installation.



Power over Ethernet (PoE+)

Devices draw power and data from a single Ethernet cable, simplifying installation.



Firewall

A security feature that regulates incoming and outgoing network traffic to guard against potentially malicious attacks on the system.



ONVIF Ready

A device that is capable of being upgraded to include the ONVIF standard.



ONVIF

Open Network Video Interface Forum – An industry forum to maintain a communication standard for IP video devices.



BNC Connector

BNC, 75Ohm, Standard Definition video input(s).



Watermark

A means of digitally protecting video data from tampering.



Linux

A robust and reliable operating system designed for embedded appliances.



Windows

Windows operating system.

Physical



Outdoor

Outdoor cameras feature a protective casing to protect them from the elements.



IR

Integrated IR Illumination for improved low light operation.



IK10

IK ratings measure the durability of protective casings through impact testing.
10 is the highest rating.



Low Temperature

Can function in temperatures as low as -50°C.



High Temperature

Can function in temperatures as high as 50°C.



In-Ceiling

In-ceiling cameras that can be mounted into false ceilings. This is less intrusive than conventional mountings.



Integral Microphone

A built -in microphone such that audio may be listened to or recorded.



1U Height

Product is rack mountable and when mounted will occupy 1U in height.



2U Height

Product is rack mountable and when mounted will occupy 2U in height.



19" Rack

Product is rack mountable in a standard 19" rack.



Redundant Power Supply

Product supports a redundant power supply that, when utilised, minimises the chance of a complete shutdown.



Redundant Network

Contains a redundant network connection so that vital network capabilities are always available when needed.

Zoom



3x Optical

Operators can optically zoom in to view part of an image, revealing more detail without any loss in resolution.



10x Optical

Operators can optically zoom in to view part of an image, revealing more detail without any loss in resolution.



18x Optical

Operators can optically zoom in to view part of an image, revealing more detail without any loss in resolution.



20x Optical

Operators can optically zoom in to view part of an image, revealing more detail without any loss in resolution.



28x Optical

Operators can optically zoom in to view part of an image, revealing more detail without any loss in resolution.



30x Optical

Operators can optically zoom in to view part of an image, revealing more detail without any loss in resolution.



35x Optical

Operators can optically zoom in to view part of an image, revealing more detail without any loss in resolution.



36x Optical

Operators can optically zoom in to view part of an image, revealing more detail without any loss in resolution.

Icon Introduction

Storage



RAID0

A means of mounting multiple disks into a single storage volume.



RAID1

A means of mounting multiple disks into a single storage volume.



RAID5

A means of mounting multiple disks into a single storage volume.



RAID6

A means of mounting multiple disks into a single storage volume.



SATA

A type of hard disk drive.



Capture

From IP Encoders to Megapixel Cameras: We've got it covered

IP CCTV. It's not just about video resolution.

Whether you need to convert your current analogue cameras to IP, or deploy megapixel IP cameras, IndigoVision has the best IP security solution. IndigoVision hardware uses world class compression technology providing lower bandwidth, easier remote accessibility and vastly reduced storage costs - while delivering amazing video quality.

With in-built advanced analytics, guaranteed full frame rate, audio and amazing scalability, IndigoVision's IP encoders and cameras deliver a result that's about much more than just the number of pixels.

Resolution	Analogue Encoders	Fixed Cameras	Fixed Dome Cameras	PTZ Dome Cameras
SD (up to 4SIF)	BX100 or 9000	9000	9000	9000
HD (720p)	n/a	11000	11000	11000
HD (1080p)	n/a	BX600	BX400	BX500
5MP	n/a	BX600	BX400	n/a
20MP	n/a	Ultra 5K	n/a	n/a

Capture Index

Fixed Cameras



- **Enhanced Standard Definition (SD) Fixed Camera - 9000 Range** 8
  - 4SIF resolution
  - Full-duplex audio
  - Power over Ethernet (PoE)
  - Wide Dynamic Range (WDR)
- **Enhanced High Definition (HD) Fixed Camera - 11000 Range** 14
  - 720p resolution
  - Full-duplex audio
  - Power over Ethernet (PoE)
- **High Definition (HD) Bullet Camera - BX Range** 20
  - 1080p resolution
  - Built in IR illumination
  - ONVIF conformant
- **High Definition (HD) Fixed Camera - BX Range** 22
  - 1080p resolution
  - Full-duplex audio
  - Power over Ethernet (PoE)
  - ONVIF conformant
- **5 Megapixel (5MP) Bullet Camera - BX Range** 30
  - 5MP and 3MP resolution modes
  - Built in IR illumination
  - Full-duplex audio
  - Power over Ethernet (PoE)
  - ONVIF conformant
- **5 Megapixel (5MP) Fixed Camera - BX Range** 32
  - 5MP and 3MP resolution modes
  - Full-duplex audio
  - Power over Ethernet (PoE)
  - ONVIF conformant
- **Ultra 5K Fixed Camera - Ultra Range** 38
  - 20MP resolution
  - 6FPS
  - Low Light
  - ONVIF conformant
- **VSM 4000** 40
  - Supports Ultra 5K Fixed Camera
  - Up to 20 client connections
- **Fixed Camera Housing** 42
  - For 9000, 11000 and BX Fixed camera ranges
  - IP66/67 Rated
  - Option for integrated heater

Fixed Dome Cameras



- **Enhanced Standard Definition (SD) Fixed Dome Camera - 9000 Range** 10
  - 4SIF resolution
  - Wide Dynamic Range (WDR)
  - Full-duplex audio
  - Power over Ethernet (PoE)
- **Enhanced High Definition (HD) Fixed Dome Camera - 11000 Range** 16
  - 720p resolution
  - Full-duplex audio
  - Power over Ethernet (PoE)
- **High Definition (HD) Minidome Camera - BX Range** 24
  - 1080p resolution
  - Full-duplex audio
  - Built in IR illumination
  - ONVIF conformant
- **High Definition (HD) Microdome Camera - BX Range** 26
  - 1080p resolution
  - Full-duplex audio
  - ONVIF conformant
- **5 Megapixel (5MP) Minidome Camera - BX Range** 34
  - 5MP and 3MP resolution modes
  - Full-duplex audio
  - Power over Ethernet (PoE)
  - ONVIF conformant
- **5 Megapixel (5MP) Microdome Camera - BX Range** 36
  - 5MP and 3MP resolution modes
  - Full-duplex audio
  - Power over Ethernet (PoE)
  - ONVIF conformant
- **Fixed Dome Mount Matrix** 44
  - Compatible mounts for the 9000, 11000 and BX Range Fixed Dome Cameras

Capture Index

PTZ Dome Cameras



- **Standard Definition (SD) PTZ Dome Camera - 9000 Range** 12
  - 4SIF resolution
  - Image stabilisation
  - Ultra-low latency
  - 18x, 28x, 36x optical zoom options
- **High Definition (HD) PTZ Dome Camera - 11000 Range** 18
  - 720p resolution
  - 10x optical zoom and 12x digital zoom
  - Ultra-low latency
- **High Definition (HD) PTZ Dome Camera - BX Range** 28
  - 1080p resolution
  - 20x optical zoom and 8x digital zoom
  - ONVIF conformant
- **PTZ Dome Mount Matrix** 49
  - Compatible mounts for the 9000,11000 and BX Range PTZ Dome Cameras

Encoders/ Decoders



- **20 Channel Encoder - 9000 Range** 56
  - 4SIF resolution
  - Full-duplex audio on all channels
  - Built-in real time Analytics
- **10 Channel Encoder/Decoder - 9000 Range** 58
  - 4SIF resolution
  - Full-duplex audio (optional) on all channels
  - Built-in real time Analytics
- **Four Channel Encoder/Decoder - 9000 Range** 60
  - 4SIF resolution
  - Full-duplex audio (optional)
  - Built-in real time Analytics
- **Dual Channel Encoder - 9000 Range** 62
  - Two analogue inputs per device
  - 4SIF resolution
  - Full-duplex audio
  - Built-in real time Analytics
  - Power over Ethernet (PoE)
- **Single Channel Encoder/ Decoder - 9000 Range** 64
  - 4SIF resolution
  - Full-duplex audio (optional)
  - Built-in real time Analytics
  - Power over Ethernet (PoE)
- **Four Channel Encoder - BX Range** 66
  - Four analogue inputs per device
  - 4SIF resolution
  - Audio
  - ONVIF conformant

IndigoVision
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Enhanced SD Fixed Camera

Always in focus

Part of IndigoVision's 9000 Range, the Enhanced Standard Definition (SD) Fixed Camera delivers more image detail, better image clarity and impressive low light sensitivity. With highly optimised H.264 compression and ACF+ technology, storage costs are reduced by up to 95%.

Key Features

SENSOR



COMPRESSION



INTELLIGENCE



OTHER



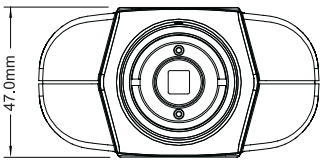
Product Codes

Enhanced SD Fixed Camera (PAL)	9000S	9000E
Standard Lens - Day/Night with Audio	749291	769291
Telephoto Lens - Day/Night with Audio	749295	769295

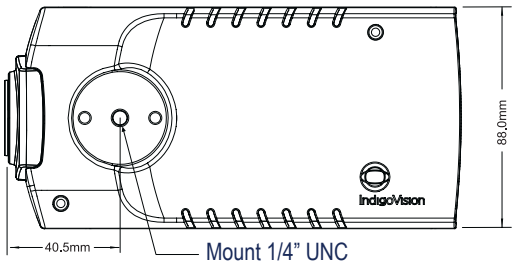
The 9000E product allows full frame rate video, at full 4SIF resolution. The 9000S product allows the camera to be recorded at full frame rate at SIF resolution, half frame rate at 2SIF and one third frame rate at 4SIF resolution.

For more information:

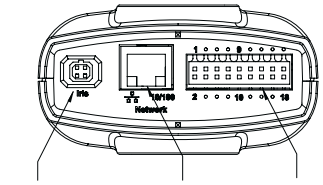
Dimensions



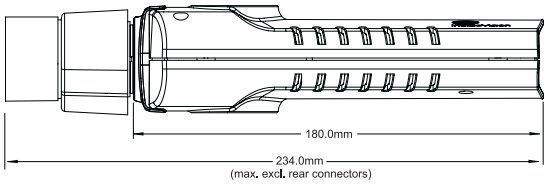
View on Front Face



View on Top/Bottom Face



View on Back Face



View on Side Face

Specification

Camera Features	
Sensor	1/3" Progressive CMOS
Active Pixels	0.4 MP (704 x 576)
Horizontal Resolution	Sensor - 690 HTVL effective; Camera - >500 TVL typical
Minimum Sensitivity	Day: 0.1 lux (colour). Night: 0.01 lux (mono). F1.0, 50IRE, 1/30s shutter
Dynamic Range	WDR 120dB Max, 102dB typical
Gain Control	Auto/Manual setting across a 40dB range
Back Light Compensation	On/Off
White Balance Mode	Auto/Manual/Indoor/Outdoor
Day/Night	True Day/Night with Mechanical IR Cut Filter
Video Resolution	SIF: 352 x 288 pixels; 2SIF: 704 x 288 pixels; 4SIF: 704 x 576 pixels
Signal/Noise Level	> 50dB
Lens Options	Standard: 3mm - 8mm, Horizontal view angle 66.4° (W) 26.2° (T) , F1.0, Auto-iris, Vari-focal, CS Mount Telephoto: 5mm - 50mm, Horizontal view angle 39.1° (W) 4.3° (T) , F1.4, Auto-iris, Vari-focal, CS Mount
Iris Control	Auto-iris DC drive lens as standard
Shutter	Global; Auto from 1/50 to 1/30,720. Slow Shutter from 1 sec to 1/25
Exposure Control	Auto/Manual/Slow AE
Video Compression	Full frame rate, full colour: H.264 (ISO 14496-10); 25fps guaranteed
Video Bit Rate	User-configurable from 32Kbps up to 6Mbps
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to seven 4Mbps unicast connections; Up to 16 1Mbps unicast connections
Video Multi-Encoder	Up to two simultaneous resolutions with guaranteed frame rate including: 4SIF (25fps), 2SIF (25fps), SIF (25fps)
Video Output	PAL composite video, 75 Ohms 1V p-p, Terminal block connector
Video Analytics*	Standard: ACF, ACF+, Motion Detection, Hooded. Advanced: Dual Tripwire, Congestion, Counterflow, Museum
Audio Compression	AAC-LC (ISO 144496-3)
Audio Bit Rate	User-configurable bit rates from 32Kbps to 160Kbps per channel
Audio Protocol	RTP (RFC 3640)
Audio Dual Encoder	Encoder A: 1 Stream Configuration plus Encoder B: 1 Stream Configuration
Audio Resolution	Full Duplex 16 Bit, 16kHz sample rate Mono/Stereo Input, Mono Output
Audio Input	Stereo line in terminal block connector. Nominal voltage: 1V p-p, Mic 30mV p-p. Mic type: dynamic or electret
Audio Output	Mono line out terminal block connector. 1V p-p, Minimum load impedance: 16 Ohms
Binary Input/Output	2 opto-isolated inputs ; 1 solid state opto-isolated relay output
Data Input/Output	1 Data/Console port: RS232 up to 115.2 Kbps
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RDP, ICMP, IGMP, SNMP, HTTP, HTTPS, SSH, TELNET
Network Security	Embedded Linux Firewall. Salted passwords, with MD5 encryption
Time	Embedded real-time clock, NTP client with battery backup
Dimension/Weight	180mm (d) x 88mm (w) x 47mm (h) and 0.5Kg
Regulatory	EN 55022 (2010) ITE emission standard – Class A; EN 55024 (1998) +A1:2000 +A2:2003 ITE immunity standard; CFR47(1995) Part 15 subpart B -Class A (US federal code of regulations); EN 60068-2-1 & 2 Low & High temp; EN 60068-2-6 & 64 Sinusoid & Random vibration; EN 60068-2-29 Bump; EN 60068-2-30 Humidity up to 90% Non Condensing
Housing	Diecast aluminium alloy
Electrical	PoE (802.3af Class 0) or 24V AC/DC @ 0.25A 6W max
Operating Temperature	0°C to 50°C
IndigoVision Software Requirements	SMS4™ r1/Control Center v11.0 or later
ONVIF**	ONVIF Ready

* Advanced Video Analytics require a licence.

IndigoVision
Complete IP Video Security Solutions



Enhanced SD Fixed Dome Camera

Astounding image quality under every lighting condition

Part of IndigoVision's 9000 Range, the Enhanced Standard Definition (SD) Fixed Dome Camera delivers more image detail, better image clarity and impressive low light sensitivity. With highly optimised H.264 compression and ACF+ technology, storage costs are reduced by up to 95%.

Key Features

SENSOR
Day/Night
Low Light
Dual WDR

COMPRESSION
H.264
GUARANTEED 25fps
FPGA
AAC

INTELLIGENCE
ACF
ACF+
Analytics
Motion Detection

OTHER
DNA
PoE
Firewall
ONVIF Ready

PHYSICAL
Outdoor
IK10
Low Temp

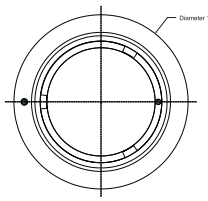
Product Codes

Standard Lens (PAL)	9000S	9000E
Internal with Audio	749411	769411
Vandal Resistant with Audio	749431	769431
Environmental Vandal Resistant with Audio	749441	769441
Telephoto Lens (PAL)	**9000S**	**9000E**
Internal with Audio	749413	769413
Vandal Resistant with Audio	749433	769433
Environmental Vandal Resistant with Audio	749443	769443

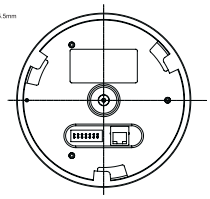
The 9000E product allows full frame rate video, at full 4SIF resolution. The 9000S product allows the camera to be recorded at full frame rate at SIF resolution, half frame rate at 2SIF and one third frame rate at 4SIF resolution.

For more information:

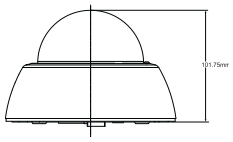
Dimensions - Internal



View on Top Face

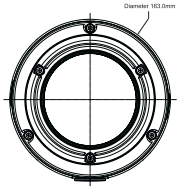


View on Bottom Face

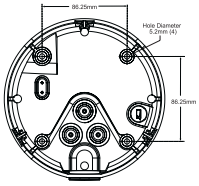


View on Side Face

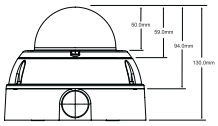
Dimensions - Vandal Resistant & Environmental Vandal Resistant



View on Top Face



View on Bottom Face



View on Side Face

Specification

Camera Features	
Sensor	1/3" Progressive CMOS
Active Pixels	0.4 MP (704 x 576)
Horizontal Resolution	Sensor - 690 HTVL effective; Camera - >500 TVL typical
Minimum Sensitivity	Day: 0.1 lux (colour). Night: 0.01 lux (mono). F1.2, 50IRE, 1/30s shutter
Dynamic Range	WDR 120dB Max, 102dB Typical
Gain Control	Auto/Manual setting across a 40dB range
Back Light Compensation	On/Off
White Balance Mode	Auto/Manual/Indoor/Outdoor
Day/Night	True Day/Night with Mechanical IR Cut Filter
Video Resolution	SIF: 352 x 288 pixels; 2SIF: 704 x 288 pixels; 4SIF: 704 x 576 pixels
Signal/Noise Level	> 50dB
Lens Options	Standard: 2.8mm - 10.5mm, Horizontal view angle 101.8° (W) 27.4° (T), F1.2, Auto-iris, Vari-focal, M14 mount Telephoto: 9mm - 22mm, Horizontal view angle 30.6° (W) 13.0° (T) F1.5, Auto-iris, Vari-focal, M14 mount
Iris Control	Auto-iris DC drive lens as standard
Shutter	Global; Auto from 1/50 to 1/30,720. Slow Shutter from 1 sec to 1/25
Exposure Control	Auto/Manual/Slow AE
Gimbal Adjustment	3 axis adjustment
Video Compression	Full frame rate, full colour: H.264 (ISO 14496-10); 25fps guaranteed
Video Bit Rate	User-configurable from 32Kbps up to 6Mbps
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to seven 4Mbps unicast connections; Up to sixteen 1Mbps unicast connections
Video Multi-Encoder	Up to two simultaneous resolutions with guaranteed frame rate including: 4SIF (25fps), 2SIF (25fps), SIF (25fps)
Video Output	PAL composite video, 75 Ohms 1V p-p, BNC cable harness
Video Analytics*	Standard: ACF, ACF+, Motion Detection, Hooded. Advanced: Dual Tripwire, Congestion, Counterflow, Museum
Audio Compression	AAC-LC (ISO 144496-3)
Audio Bit Rate	User-configurable bit rates from 32Kbps to 160Kbps per channel
Audio Protocol	RTP (RFC 3640)
Audio Dual Encoder	Encoder A: 1 Stream Configuration plus Encoder B: 1 Stream Configuration
Audio Resolution	Full Duplex 16 Bit, 16kHz sample rate Mono/Stereo Input, Mono Output
Audio Input	Stereo line in terminal block connector. Nominal voltage: 1V p-p, Mic 30mV p-p. Mic type: dynamic or electret
Audio Output	Mono line out terminal block connector. 1V p-p, Minimum load impedance: 16 Ohms
Binary Input/Output	2 opto-isolated inputs ; 1 solid state opto-isolated relay output
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RDP,ICMP, IGMP, SNMP, HTTPS, SSH, TELNET
Network Security	Embedded Linux Firewall. Salted passwords, with MD5 encryption
Time	Embedded real-time clock, NTP client with battery backup
Regulatory	EN 55022 (2010) ITE emission standard – Class A, EN 55024 (1998) +A1:2000 +A2:2003 ITE immunity standard, CFR47(1995) Part 15 subpart B -Class A (US federal code of regulations), EN 60068-2-1 & 2 Low & High temp, EN 60068-2-6 & 64 Sinusoid & Random vibration, EN 60068-2-29 Bump , EN 60068-2-30 Humidity up to 90% Non Condensing (Internal) and 100% Condensing (Vandal Resistant)
IndigoVision Software Requirements	SMS4™ r1/Control Center v11.0 or later
ONVIF**	ONVIF Ready

Camera Features	Internal	Vandal Resistant	Environmental Vandal Resistant
Dimension/Weight	155.5mm (dia.) x 103mm (h) and 0.5Kg	163mm (dia.) x 130mm (h) and 0.86Kg	163mm (dia.) x 130mm (h) and 0.86Kg
Housing	Polycarbonate/ABS with polycarbonate dome	Diecast aluminium alloy with polycarbonate dome	Diecast aluminium alloy with polycarbonate dome
Protection Rating	N/A	IP66/IK10 (IEC 62262)	IP66/IK10 (IEC 62262)
Electrical	24V @ 0.33A, 10W max Camera Operating Voltage - PoE (802.3af Class0) or 24V AC/DC (24V DC PSU separately orderable) Heater Operating Voltage - N/A	24V @ 0.33A, 10W max Camera Operating Voltage - PoE (802.3af Class0) or 24V AC/DC (24V DC PSU separately orderable) Heater Operating Voltage - N/A	24V @ 0.33A, 10W max (camera only) 12V @2.5A, 30W max (heater) Camera Operating Voltage - PoE (802.3af Class0) or 24V AC/DC (24V DC PSU separately orderable). Heater Operating Voltage - 12V DC (12V DC PSU included)
Operating Temperature	0°C to 40°C	0°C to 40°C	-30°C to 50°C
Mount Options	Wall and Ceiling Mountable not suitable for solid surfaces	Wall and Ceiling Mountable exit collar included for solid surfaces	Wall and Ceiling Mountable exit collar included for solid surfaces

* Advanced Video Analytics require a licence. ** Firmware upgrade is required for ONVIF Conformance.

IndigoVision
Complete IP Video Security Solutions

9000 RANGE

28x Optical

36x Optical



SD PTZ Dome Camera

Ultra-low latency for sharp camera control, with every frame guaranteed

Part of IndigoVision's 9000 Range, the Standard Definition (SD) PTZ Dome Camera delivers more image detail, better image clarity, impressive low light sensitivity and ultra low PTZ latency, giving smoother operator control. With highly optimised H.264 compression and ACF+ technology, storage costs are reduced by up to 95%.

Key Features

SENSOR: Low Light, WDR, Stabilisation

COMPRESSION: H.264, GUARANTEED 25fps, FPGA

INTELLIGENCE: ACF, ACF+, Analytics, Motion Detection

OTHER: DNA, Firewall

PHYSICAL: Outdoor, IK10, Low Temp, High Temp, In-Ceiling

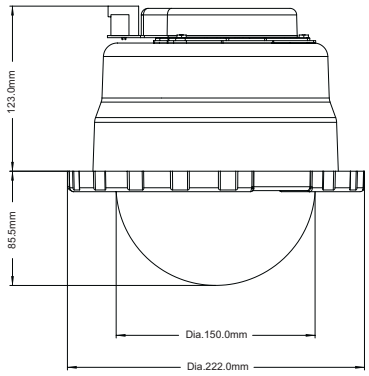
Product Codes

28x Lens (PAL)	9000S	9000E
In-Ceiling	749353	769353
Standard Pendant	749355	769355
Environmental Pendant	749357	769357
Arctic	749359	769359
36x Lens (PAL)	**9000S**	**9000E**
In-Ceiling	749363	769363
Standard Pendant	749365	769365
Environmental Pendant	749367	769367
Arctic	749369	769369

The 9000E product allows full frame rate video, at full 4SIF resolution. The 9000S product allows the camera to be recorded at full frame rate at SIF resolution, half frame rate at 2SIF and one third frame rate at 4SIF resolution.

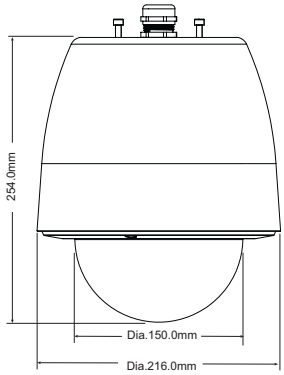
For more information:

Dimensions - In-Ceiling



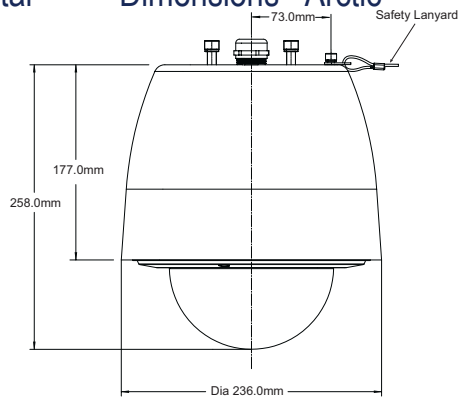
View on Side Face

Dimensions - Standard & Environmental



View on Side Face

Dimensions - Arctic



View on Side Face

Specification

Camera Features	28x optical + 12x digital zoom	36x optical + 12x digital zoom
Sensor	1/4" type SuperHAD II Interlaced CCD	1/4" Sony ExView SuperHAD Interlaced or Progressive Scan CCD
Minimum Sensitivity	Day: 0.016 lux (colour). Night: 0.0015 lux (mono). F1.35, 50 IRE, 1/4s shutter	Day: 0.1 lx (colour). Night: 0.01 lx (mono) F1.6, 50 IRE, 1/4s shutter
Dynamic Range	N/A	WDR On/Off/Auto
Lens Options	3.5mm to 98mm, Horizontal view angle 2.1° (W) 55.8° (T), F1.35 to F3.7	3.4mm to 122.4mm, Horizontal view angle 1.7° (W) 57.8° (T), F1.6 to F4.5
Image Stabliser	Yes (StableZoom™)	Yes (StableZoom™)

Camera Features	
Active Pixels	0.4 MP (704 x 576)
Gain Control	Auto
White Balance Mode	Auto
Day/Night	True Day/Night with Mechanical IR Cut Filter
Video Resolution	SIF: 352 x 288 pixels; 2SIF: 704 x 288 pixels; 4SIF: 704 x 576 pixels
Signal/Noise Level	> 50dB
Iris Control	Automatic with Manual override
Shutter	Global; Auto from 1 to 1/10000 sec
Exposure Control	Auto/Manual/Slow AE
Video Compression	Full frame rate, full colour: H.264; (ISO 14496-10): 25fps guaranteed
Video Bit Rate	User configurable from 32Kbps up to 6Mbps
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to seven 4Mbps unicast connections; Up to sixteen 1Mbps unicast connections
Video Multi-Encoder	Up to two simultaneous resolutions with guaranteed frame rate including: 4SIF (25fps), 2SIF (25fps), SIF (25fps)
Video Analytics	Standard: ACF, ACF+, Motion Detection, Hooded. Advanced: Dual Tripwire, Congestion, Counterflow, Museum
Binary Input/Output	2 opto-isolated inputs; 1 solid state, opto-isolated relay output
Network Interface	IEEE802.3 standards: 100 Base-T Ethernet, TCP, UDP, RDP, IGMP, SNMP, HTTP, HTTPS, FTP, NTP, SSH, TELNET
Network Security	Embedded Linux Firewall. Salted passwords, with MD5 encryption
Time	Embedded real-time clock, NTP client with battery backup
Regulatory	EN 55022(1994) ITE emission standard Class A, EN 55024(1998) ITE immunity standard Class A, EN 61000-3-3(1995) voltage fluctuation, EN 61000-3-2(1995) mains harmonics Class A, CFR47(1995) Part 15 subpart B, UL2044 (In-Ceiling with Plenum Rated Back Box)*
IndigoVision Software Requirements	SMS4™ r1/Control Center v11.0 or later

PTZ Control			
Preset	250	Pan Range	360° Continuous Rotation
Preset Accuracy	0.05°	Tilt Range	95° (-5° above horizon to 90° vertically down)
Preset Tours	100 each with 20 presets	Pan-Tilt	0.001°/s to 360°/s
Pattern Mimic Tours	4 each with up to 1 minute	Preset Move Speed	200°/s
Privacy Zones	24 User Defined	On Screen Display	Preset Name or 8 Compass Points

Camera Features	In-Ceiling	Standard	Environmental	Arctic
Dimensions/Weight	222mm (dia) x 208.5mm (h) and 2.7Kg	216mm (dia) x 254mm (h) and 5.5Kg	216mm (dia) x 254mm (h) and 5.7Kg	236mm (dia) x 260mm (h) and 6.1Kg (with sun shroud)
Housing	Polypropelene with polycarbonate dome	Vandal Resistant die-cast aluminium with polycarbonate dome	Vandal resistant die-cast aluminium with polycarbonate dome	Vandal resistant die-cast aluminium, polycarbonate dome with aluminium sun shroud
Protection Rating	N/A	IP67/IK10 (IEC 62262)	IP67/IK10 (IEC 62262)	IP67/IK10 (IEC 62262)
Electrical	24V AC/DC @ 1A; 24W. 24V DC power supply included	24V AC/DC @ 1A; 24W. 24V DC power supply included	24V AC/DC @ 2.3 A; 55W. 24V DC power supply included	24V AC/DC @ 3.5 A; 84W power supply not included
Operating Temperature	0°C to 40°C	-5°C to 50°C	-20°C to 50°C	-50°C to 50°C
Absolute Maximum Temperature	45°C periods of 1 hour	60°C periods of 1 hour	60°C periods of 1 hour	60°C periods of 1 hour
Cold Start	0°C	0°C	0°C	-40°C

* In-Ceiling Dome only.

IndigoVision
Complete IP Video Security Solutions



Enhanced HD Fixed Camera

Enhanced High Definition security video

Part of IndigoVision's 11000 Range, the Enhanced High Definition (HD) Fixed Camera delivers more image detail, better image clarity and impressive low light sensitivity. With highly optimised H.264 compression and ACF+ technology, storage costs are reduced by up to 95%.

Key Features

SENSOR
HD
Day/Night
Low Light
Dual WDR

COMPRESSION
H.264
GUARANTEED 25fps
FPGA
AAC

INTELLIGENCE
ACF
ACF+
Analytics
Motion Detection

OTHER
DNA
PoE
Firewall
ONVIF Ready

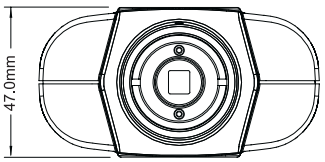
Product Codes

Enhanced HD Fixed Camera (PAL)	11000S	11000E
Standard Lens - Day/Night with Audio	541291	561291
Telephoto Lens - Day/Night with Audio	541295	561295

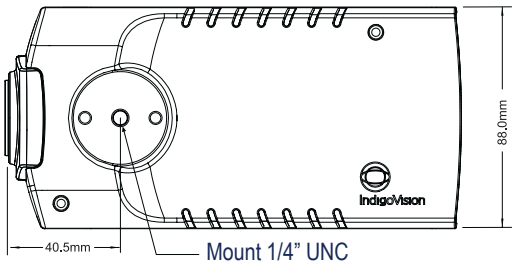
The 11000E product allows full frame rate video, at full 720p resolution. The 11000S product allows 1/3 frame rate video, at full 720p resolution.

For more information:

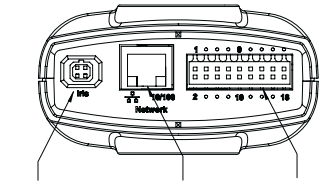
Dimensions



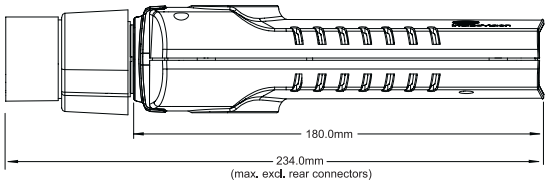
View on Front Face



View on Top/Bottom Face



View on Back Face



View on Side Face

Specification

Camera Features	
Sensor	1/2.7" Progressive CMOS
Active Pixels (HxV)	1MP (1280 x 720)
Horizontal Resolution	> 600 TVL
Minimum Sensitivity	Day: 0.7 lux (colour). Night: 0.035 lux (mono). 50 IRE, F1.2, 1/30s shutter
Dynamic Range	WDR 115dB Max
Gain Control	Auto setting across a 33dB range
Back Light Compensation	Auto
White Balance Mode	Auto
Day/Night	True Day/Night with Mechanical IR Cut Filter
Video Resolution	720p: 1280x720 pixels; SD: 640x360 pixels; 16:9 ratio
Signal/Noise Level	> 39dB
Lens Options	Standard: 3.1mm - 8mm, Horizontal view angle 97.8° (W) 39.4° (T), F1.2, P-iris, Vari-focal, CS mount Telephoto: 12.5mm - 50mm, Horizontal view angle 24.4° (W) 6.3° (T), F1.4, P-iris, Vari-focal, CS mount
Iris Control	Auto-iris/Electronic Shutter/Manual
Shutter	Rolling; Auto from 1/2 to 1/100,000
Exposure Control	Auto/Manual/Slow AE
Video Compression	Full frame rate, full colour: H.264 (ISO 14496-10); 25fps guaranteed
Video Bit Rate	User-configurable from 32Kbps up to 8Mbps
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to seven 4Mbps unicast connections; Up to sixteen 1Mbps unicast connections
Video Multi-Encoder	Up to two simultaneous resolutions with guaranteed frame rate including: 720p (25fps), SD (25fps)
Video Analytics*	Standard: ACF, ACF+, Motion Detection, Hooded. Advanced: Dual Tripwire, Congestion, Counterflow, Museum
Audio Compression	AAC-LC (ISO 14496-3)
Audio Bit Rate	User-configurable bit rates from 32Kbps to 160Kbps per channel
Audio Protocol	RTP (RFC 3640)
Audio Dual Encoder	Encoder A: 1 Stream Configuration plus Encoder B: 1 Stream Configuration
Audio Resolution	Full Duplex 16 Bit, 16kHz sample rate Mono/Stereo Input, Mono Output
Audio Input	Stereo / Mono line in terminal block connector. Nominal voltage: 1V p-p, Mic 30mV p-p. Mic type: dynamic or electret
Audio Output	Mono line out terminal block connector. 1V p-p, Minimum load impedance: 16 Ohms
Binary Input/Output	2 Pull up inputs for non powered contacts; 1 solid state opto-isolated relay output @500mA, LED output @20mA
Data Input/Output	1 Data/Console port: RS232 up to 115.2 Kbps
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RDP, ICMP, IGMP, SNMP, HTTP, HTTPS
Network Security	Embedded Linux Firewall. Salted passwords, with MD5 encryption
Time	Embedded real-time clock, NTP client with battery backup
Dimension/Weight	178mm (d) x 88mm (w) x 47mm (h) and 0.5Kg
Regulatory	EN 55022 (2010) ITE emission standard – Class A; EN 55024 (1998) +A1:2000 +A2:2003 ITE immunity standard; CFR47(2008) Part 15 subpart B -Class A (US federal code of regulations); EN 60068-2-1 & 2 (1993) Low & High temp; EN 60068-2-6 & 64 Sinusoid & Random vibration (2008); EN 60068-2-29 Bump (1993); EN 60068-2-30 Humidity up to 95% Non Condensing (2005)
Housing	Diecast aluminium alloy
Electrical	PoE (802.3af Class 0) or 24V DC @ 0.29A / 6W max
Operating Temperature	0°C to 50°C
IndigoVision Software Requirements	SMS4™ r1/Control Center v11.0 or later
ONVIF**	ONVIF Ready

* Advanced Video Analytics require a licence.
** Firmware upgrade is required for ONVIF Conformance.

IndigoVision
Complete IP Video Security Solutions



Enhanced HD Fixed Dome Camera

Enhanced High Definition security video

Part of IndigoVision's 11000 Range, the Enhanced High Definition (HD) Fixed Dome Camera delivers more image detail, better image clarity and impressive low light sensitivity. With highly optimised H.264 compression and ACF+ technology, storage costs are reduced by up to 95%.

Key Features

SENSOR: HD, Day/Night, Low Light, Dual WDR

COMPRESSION: H.264, GUARANTEED 25fps, FPGA, AAC

INTELLIGENCE: ACF, ACF+, Analytics, Motion Detection

OTHER: DNA, PoE, Firewall, ONVIF Ready

PHYSICAL: Outdoor, IK10, Low Temp, High Temp, In-Ceiling

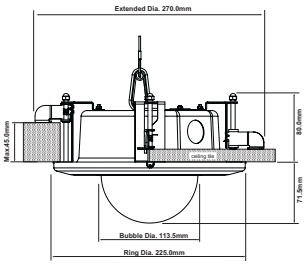
Product Codes

Standard Lens (PAL)	11000S	11000E
In-Ceiling	541427	561427
Internal	541417	561417
Vandal Resistant	541437	561437
Environmental Vandal Resistant	541447	561447
Telephoto Lens (PAL)	**11000S**	**11000E**
In-Ceiling	541429	561429
Internal	541419	561419
Vandal Resistant	541439	561439
Environmental Vandal Resistant	541449	561449

The 11000E product allows full frame rate video recording, at full 720p or Q720p resolution. The 11000S product allows 1/3 frame rate video recording, at full 720p resolution or 1/2 frame rate video recording at Q720p resolution.

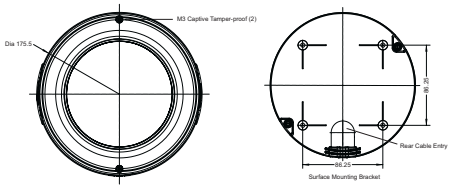
For more information:

Dimensions - In-Ceiling



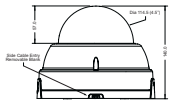
View on Side Face

Dimensions - Internal



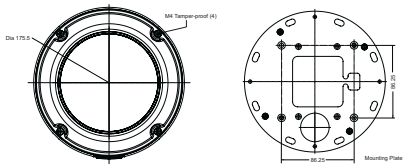
View on Top Face

View on Bottom Face



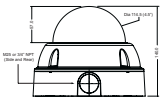
View on Side Face

Dimensions - Vandal Resistant & Environmental Vandal Resistant



View on Top Face

View on Bottom Face



View on Side Face

Specification

Camera Features	
Sensor	1/2.7" Progressive CMOS
Active Pixels (HxV)	1MP (1280 x 720)
Horizontal Resolution	> 600 TVL
Minimum Sensitivity	Day: 0.7 lux (colour). Night: 0.035 lux (mono). 50 IRE, F1.2, 1/30s shutter
Dynamic Range	WDR 115dB Max
Gain Control	Auto setting across a 33dB range
Back Light Compensation	Auto
White Balance Mode	Auto
Day/Night	True Day/Night with Mechanical IR Cut Filter
Video Resolution	720p: 1280 x 720 pixels; SD: 640 x 360 pixels; 16:9 ratio
Signal/Noise Level	> 39dB
Lens Options	Standard: 3.1 to 8mm, Horizontal view angle 97.8° (W) 39.4° (T), F1.2, P-iris, Vari-focal, CS mount Telephoto: 12.5 to 50mm, Horizontal view angle 24.4° (W) 6.3° (T), F1.4, P-iris, Vari-focal, CS mount
Iris Control	Auto-iris/Electronic Shutter/Manual
Shutter	Rolling; Auto from 1/2 to 1/100,000
Exposure Control	Auto/Manual/Slow AE
Gimbal Adjustment	3 axis adjustment
Video Compression	Full frame rate, full colour: H.264 (ISO 14496-10); 25fps guaranteed
Video Bit Rate	User-configurable from 32Kbps up to 8Mbps
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to seven 4Mbps unicast connections; Up to sixteen 1Mbps unicast connections
Video Multi-Encoder	Up to two simultaneous resolutions with guaranteed frame rate including: 720p (25fps), SD (25fps)
Video Analytics**	Standard: ACF, ACF+, Motion Detection, Hooded. Advanced: Dual Tripwire, Congestion, Counterflow, Museum
Audio Compression	AAC-LC (ISO 14496-3)
Audio Bit Rate	User-configurable bit rates from 32Kbps to 160Kbps per channel
Audio Protocol	RTP (RFC 3640)
Audio Dual Encoder	Encoder A: 1 Stream Configuration plus Encoder B: 1 Stream Configuration
Audio Resolution	Full Duplex 16kHz, 16 Bit Mono/Stereo Input, Mono Output
Audio Input	Stereo / Mono line in terminal block connector. Nominal voltage: 1V p-p, Mic 30mV p-p. Mic type: dynamic or electret
Audio Output	Mono line out terminal block connector. 1V p-p, Minimum load impedance: 16 Ohms
Binary Input/Output	2 Pull up inputs for non powered contacts; 1 solid state opto-isolated relay output @500mA, LED output @20mA
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RDP, ICMP, IGMP, SNMP, HTTP, HTTPS
Network Security	Embedded Linux Firewall. Salted passwords, with MD5 encryption
Time	Embedded real-time clock, NTP client with battery backup
Regulatory	EN 55022 (1998) ITE emission standard – Class A, EN 55024 (1998) +A1:2000 +A2:2003 ITE immunity standard, EN 60068-2-29 Bump, EN 60068-2-1 & 2 Low & High temp, EN 60068-2-30 Humidity up to 95% Non Condensing, EN 60068-2-6 & 64 Sinusoid & Random vibration, CFR47(1995) Part 15 subpart B -Class A (US federal code of regulations), UL60950-1 Standard for Information Technology Equipment – Safety – Part 1*, UL2043 Standard for Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces*
IndigoVision Software Requirements	SMS4™ r1/Control Center v11.0 or later
ONVIF	Profile S

Camera Features	In-Ceiling	Internal	Vandal Resistant	Environmental Vandal Resistant
Dimension/Weight	225.0mm (dia.) x 151.5mm (h) and 1.10Kg	175.5mm (dia.) x 140mm (h) and 1.0Kg	175.5mm (dia.) x 140mm (h) and 1.56Kg	175.5mm (dia.) x 140mm (h) and 1.56Kg
Housing	Aluminium with polycarbonate dome	Polycarbonate/ABS with polycarbonate dome	Diecast aluminium alloy with polycarbonate dome	Diecast aluminium alloy with polycarbonate dome
Protection Rating	N/A	N/A	IP66/IK10 (IEC 62262)	IP66/IK10 (IEC 62262)
Electrical	PoE (802.3af Class 0) or 24V DC @ 0.29A / 7W max	PoE (802.3af Class 0) or 24V DC @ 0.29A / 7W max	PoE (802.3af Class 0) or 24V DC @ 0.29A / 7W max	24V DC (PoE for configuration only) 24V @ 1.05A / 25W max. Power supply not included
Operating Temperature	0°C to 50°C	0°C to 50°C	0°C to 55°C	-40°C to 55°C
Cold Start	0°C	0°C	0°C	-30°C

* In-Ceiling Dome only. ** Advanced Video Analytics require a licence.

IndigoVision
Complete IP Video Security Solutions

11000 RANGE

10x Optical



HD PTZ Dome Camera

HD PTZ cameras with a guaranteed full frame rate at astonishingly low bandwidths

Part of IndigoVision's 11000 Range, the High Definition (HD) PTZ Dome Camera delivers more image detail, better image clarity, impressive low light sensitivity and ultra low PTZ latency, giving smoother operator control. With highly optimised H.264 compression and ACF+ technology, storage costs are reduced by up to 95%.

Key Features

SENSOR

HD | Low Light | WDR | Stabilisation

COMPRESSION

H.264 | GUARANTEED 25fps | FPGA

INTELLIGENCE

ACF | ACF+ | Analytics | Motion Detection

OTHER

DNA | Firewall

PHYSICAL

Outdoor | IK10 | Low Temp | High Temp | In-Ceiling

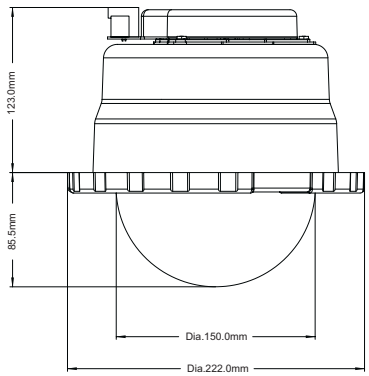
Product Codes

10x Lens (PAL)	11000S	11000E
In-Ceiling	541143	561143
Standard Pendant	541148	561148
Environmental Pendant	541149	561149
Arctic	541369	561369

The 11000E product allows full frame rate video, at full 720p resolution. The 11000S product allows 1/3 frame rate video, at full 720p resolution.

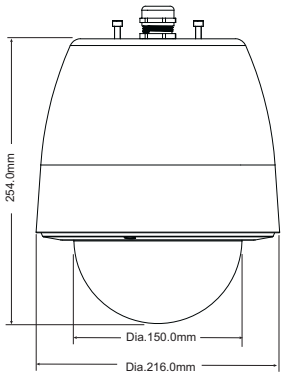
For more information:

Dimensions - In-Ceiling



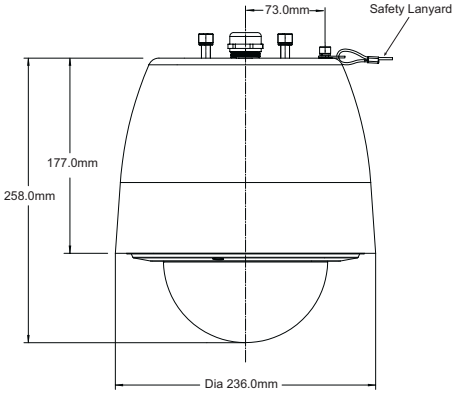
View on Side Face

Dimensions - Standard & Environmental



View on Side Face

Dimensions - Arctic



View on Side Face

Specification

Camera Features	
Sensor	1/3" Progressive CMOS
Active Pixels (HxV)	1MP (1280 x 720)
Minimum Sensitivity	Day: 1.0 lux (colour). Night: 0.1 lux (mono). 30 IRE, F1.8, 1/15s shutter
Dynamic Range	> 50dB
Gain Control	Auto/Manual setting across a 18dB range
Day/Night	True Day/Night with Mechanical IR Cut Filter
Video Resolution	720p HD (1280 x 720 pixels), Widescreen 16:9
Signal/Noise Level	> 39dB
Lens Options	5.1mm to 51mm, Horizontal view angle 5.4° (W) 50° (T), F1.8 to F2.1, Autofocus with manual override
Zoom	10x optical + 12x digital
Iris Control	Automatic with Manual override
Shutter	Rolling; Auto from 1/2 to 1/10000 sec
Exposure Control	Auto/Manual/Slow AE/Shutter-priority/Iris-priority
Video Compression	Full frame rate, full colour: H.264 (ISO 14496-10); 25fps guaranteed
Video Bit Rate	32Kbps to 8Mbps per stream. User configurable
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to four 8Mbps unicast connections; Up to sixteen 1Mbps unicast connections
Video Analytics	Motion Detection, Hooded
Binary Input/Output	2 opto-isolated inputs; 1 solid state opto-isolated relay output
Data Input/Output*	1 Data/Console port: RS232 up to 115.2 Kbps
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RDP, IGMP, SNMP, HTTP
Network Security	Embedded Linux Firewall. Salted passwords, with MD5 encryption
Time	Embedded real-time clock, NTP client with battery backup
Regulatory	EN 55022(1994) ITE emission standard Class A, EN 55024(1998) ITE immunity standard Class A, EN 61000-3-3(1995) voltage fluctuation, EN 61000-3-2(1995) mains harmonics Class A, CFR47(1995) Part 15 subpart B, UL2044 (In-Ceiling with Plenum Rated Back Box)*
IndigoVision Software Requirements	SMS4™ r1/Control Center v11.0 or later

PTZ Control			
Preset	250	Pan Range	360° Continuous Rotation
Preset Accuracy	0.05°	Tilt Range	95° (-5° above horizon to 90° vertically down)
Preset Tours	100 each with 20 presets	Pan/Tilt Speed	0.001°/s to 360°/s
Pattern/Mimic Tours	4 each with up to 1 minute	Preset Move Speed	200°/s
Picture Freeze Option	Yes		

Camera Features	In-Ceiling	Standard	Environmental	Arctic
Dimensions/Weight	222mm (dia) x 208.5mm (h) and 2.7Kg	216mm (dia) x 254mm (h) and 5.5Kg	216mm (dia) x 254mm (h) and 5.7Kg	236mm (dia) x 260mm (h) and 6.1Kg (with sun shroud)
Housing	Polypropelene with polycarbonate dome	Vandal resistant diecast aluminium with polycarbonate dome	Vandal resistant diecast aluminium with polycarbonate dome	Vandal resistant diecast aluminium, polycarbonate dome with aluminium sun shroud
Protection Rating	N/A	IP67/IK10 (IEC 62262)	IP67/IK10 (IEC 62262)	IP67/IK10 (IEC 62262)
Electrical	24V AC/DC @ 1A; 24W. 24V DC power supply included	24V AC/DC @ 1A; 24W. 24V DC power supply included	24V AC/DC @ 2.3 A; 55W. 24V DC power supply included	24V AC/DC @ 3.5 A; 84W power supply not included
Operating Temperature	0°C to 40°C	-5°C to 45°C	-20°C to 45°C	-50°C to 45°C
Absolute Maximum Temperature	45°C for periods of 1 hour	55°C for periods of 1 hour	55°C for periods of 1 hour	55°C for periods of 1 hour
Cold Start	0°C	0°C	0°C	-40°C

* In-Ceiling Dome only.

BX RANGE

IndigoVision
Complete IP Video Security Solutions

3x Optical



HD Bullet Camera

Seamless open standard High Definition video

Part of IndigoVisions professional BX Range, the High Definition (HD) Bullet Camera (BX600) delivers pin sharp detail at 2MP resolution that is fully ONVIF conformant. Any single point of failure in the system is removed through IndigoVision's Distributed Network Architecture (DNA).

Key Features

SENSOR
HD
Day/Night
WDR

COMPRESSION
H.264
UP TO 25fps
G.711

INTELLIGENCE
Motion Detection

OTHER
DNA
PoE
ONVIF

PHYSICAL
Outdoor
IR
Low Temp

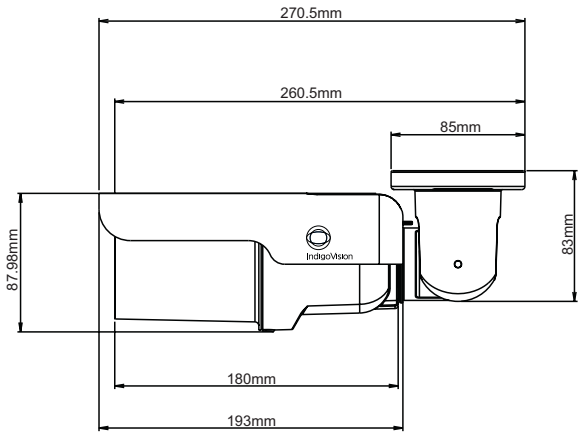
Product Codes

HD Bullet Camera (PAL)	
Standard Lens with Remote Zoom and Focus	511767

* Default frame rate for PAL Region is 25fps, configurable up to 30fps.

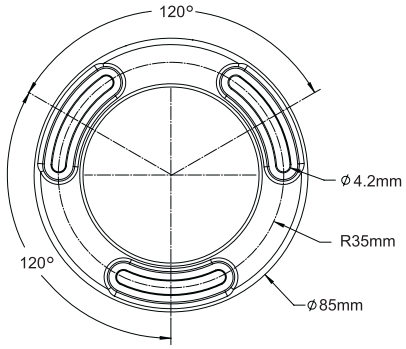
For more information:

Dimensions - HD Bullet Camera



View on Side Face

Dimensions - Mounting Hole Pattern



View on Front Face

Specification

Camera Features	
Sensor	1/2.7" Progressive CMOS
Active Pixels (HxV)	2MP (1920 x 1080)
Horizontal Resolution	> 800 TVL
Minimum Sensitivity	Day: 0.2 lux (colour). Night: 0.02 lux (mono) 30 IRE, F1.2, 1/15s shutter
Dynamic Range	WDR Low/Medium/High
Gain Control	Auto/Manual setting across a 40dB range
Back Light Compensation	On/Off
White Balance Mode	Auto/Manual
Day/Night	True Day/Night with Mechanical IR Cut Filter
IR Illuminator	Built-in IR Illuminator 850nm wavelength, effective distance 20m
Video Resolution	1920x1080 pixels (1080p); 1280x720 pixels (720p); 720x576 pixels (D1); 352x288 pixels (SIF)
Signal/Noise Level	> 39dB
Lens Options	Standard: 3mm - 9mm, Horizontal view angle 103.5°(W) 34.3°(T), F1.2
Iris Control	DC Auto-iris
Shutter	Rolling; Auto from 1 to 1/10000 sec
Exposure Control	Auto/Manual/Slow AE
Video Compression	Full frame rate, full colour: H.264/MJPEG; up to 25fps @ 1080p resolution
Video Bit Rate	User-configurable bit rates from 64Kbps up to 8Mbps
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to four 4Mbps unicast connections; Up to four 1Mbps unicast connections
Video Multi-Encoder	Up to three simultaneous resolutions including: 1080p (25fps), 720p (25fps), D1 (25fps), SIF (25fps)
Video Output	PAL composite video, 75 Ohms 1V p-p, BNC cable harness
Video Analytics	Motion Detection, Hooded
Audio Compression	G.711
Audio Bit Rate	User-configurable bit rates from 64Kbps to 80Kbps per channel
Audio Resolution	Full Duplex 8kHz sample rate. Mono Input, Mono Output
Audio Input	Line in, terminal block connector
Audio Output	Line out, terminal block connector
Binary Input/Output	1 input ; 1 solid state opto-isolated relay output
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RTP, RTSP, ICMP, IGMP, SNMP, HTTP, HTTPS, PPPoE, uPnP, QoS, DHCP
Network Security	HTTPS / IP Filter / IEEE 802.1x
Time	Embedded real-time clock, NTP client
SD Storage*	microSDHC 32GB support (card not included)
Dimension/Weight	88mm (dia.) x 193mm (h) and 0.94Kg (with sun shade)
Regulatory	EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 22, FCC Part 15 Subpart B Class A, EN 50130-4, AS/NZS CISPR 24, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11
Housing	Vandal resistant diecast aluminium alloy with polycarbonate sun shade
Protection Rating	IP66
Electrical	Camera only: PoE (802.3af Class 0) or 12V DC / 24V AC; 5.5W. Camera including heater: 12V DC / 24V AC; 24W. Power supply not included
Operating Temperature	PoE powered: 0°C to 50°C External PSU: -30°C to 50°C
Cold Start	-30°C
IndigoVision Software Requirements	SMS4™ r5/Control Center v11.0 or later
ONVIF	Profile S

* SDCard Storage independent of IndigoVision's NVRs.

IndigoVision
Complete IP Video Security Solutions



3x Optical

18x Optical

HD Fixed Cameras

Seamless open standard High Definition video

Part of IndigoVisions professional BX Range, the High Definition (HD) Fixed Camera (BX600) delivers pin sharp detail at 2MP resolution that is fully ONVIF conformant. Any single point of failure in the system is removed through IndigoVision's Distributed Network Architecture (DNA).

Key Features

SENSOR: HD, Day/Night, WDR, Stabilisation

COMPRESSION: H.264, UP TO 25fps, G.711

INTELLIGENCE: Motion Detection

OTHER: DNA, PoE, ONVIF

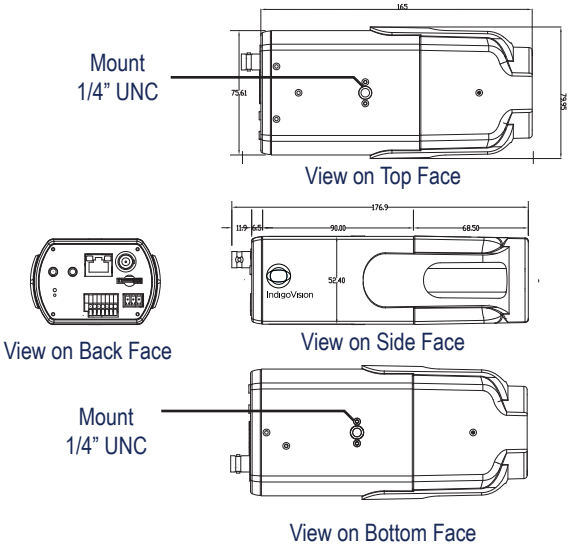
Product Codes

HD Fixed Camera (PAL)	
3x Autofocus Lens	511749
18x Autofocus Lens	511747

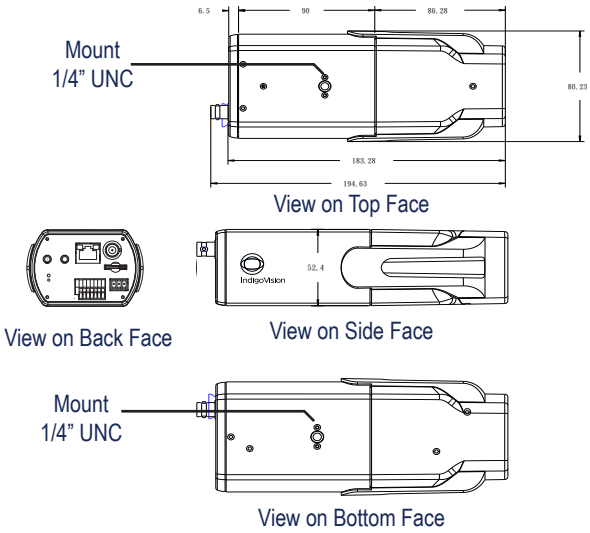
* Default frame rate for PAL Region is 25fps, configurable up to 30fps.

For more information:

Dimensions - 3x Autofocus



Dimensions - 18x Autofocus



Specification

Camera Features	
Sensor	1/2.7" Progressive CMOS
Active Pixels (HxV)	2MP (1920 x 1080)
Horizontal Resolution	> 800 TVL
Minimum Sensitivity	Day: 0.2 lux (colour). Night: 0.02 lux (mono) 30 IRE, F1.6, 1/15s shutter
Dynamic Range	WDR Low/Medium/High
Gain Control	Auto/Manual setting across a 40dB range
Back Light Compensation	On/Off
White Balance Mode	Auto/Manual
Day/Night	True Day/Night with Mechanical IR Cut Filter
Video Resolution	1920x1080 pixels (1080p); 1280x720 pixels (720p); 720x576 pixels (D1); 352x288 pixels (SIF)
Signal/Noise Level	> 50dB
Lens Options	3x Autofocus: 3mm - 9mm, Horizontal view angle 103.5° (W) 34.3° (T) , F1.2. 18x Autofocus: 4.7mm - 84.6mm, Horizontal view angle 61.5° (W) 3.3° (T), F1.6
Iris Control	P-iris (3x); DC Auto-iris (18x)
Shutter	Rolling; Auto from 1 to 1/10000 sec
Exposure Control	Auto/Manual/Slow AE
Video Compression	Full frame rate, full colour: H.264/MJPEG; up to 25fps @ 1080p resolution
Video Bit Rate	User-configurable bit rates from 64Kbps up to 8Mbps
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to four 4Mbps unicast connections; Up to four 1Mbps unicast connections
Video Multi-Encoder	Up to three simultaneous resolutions including: 1080p (25fps), 720p (25fps), D1 (25fps), SIF (25fps)
Video Output	PAL composite video, 75 Ohms 1V p-p, BNC connector
Video Analytics	Motion Detection, Hooded
Audio Compression	G.711
Audio Bit Rate	User-configurable bit rates from 64Kbps to 80Kbps per channel
Audio Resolution	Full Duplex 8kHz sample rate. Mono Input, Mono Output
Audio Input	Line in, 3.5mm jack connector
Audio Output	Line out, 3.5mm jack connector
Binary Input/Output	1 input ; 1 solid state opto-isolated relay output
Data Input/Output	1 Data port: RS485 up to 115.2 Kbps
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RTP, RTSP, ICMP, IGMP, SNMP, HTTP, HTTPS, PPPoE, uPnP, QoS, DHCP
Network Security	HTTPS / IP Filter / IEEE 802.1x
Time	Embedded real-time clock, NTP client
SD Storage*	microSDHC 32GB support (card not included)
Dimension/Weight	3x - 177mm (d) x 80mm (w) x 53mm (h) and 0.36Kg. 18x - 200mm (d) x 81mm (w) x 53mm (h) and 0.36Kg
Regulatory	EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 22, FCC Part 15 Subpart B Class A, EN 50130-4, AS/NZS CISPR 24, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11
Housing	Aluminium alloy with polycarbonate dome
Electrical	PoE (802.3af Class 0) or 12V DC / 24V AC; 6W. Power supply not included
Operating Temperature	0°C to 50°C
IndigoVision Software Requirements	SMS4™ r5/Control Center v11.0 or later
ONVIF	Profile S

* SDCard Storage independent of IndigoVision's NVRs.

IndigoVision
Complete IP Video Security Solutions



HD Minidome Cameras

Seamless open standard High Definition video

Part of IndigoVisions professional BX Range, the High Definition (HD) Minidome Camera (BX400) delivers pin sharp detail at 2MP resolution that is fully ONVIF conformant. Any single point of failure in the system is removed through IndigoVision's Distributed Network Architecture (DNA).

Key Features

SENSOR: HD, Day/Night, WDR

COMPRESSION: H.264, UP TO 25fps, G.711

INTELLIGENCE: Motion Detection

OTHER: DNA, PoE, ONVIF

PHYSICAL: Outdoor, IR, IK10, Low Temp

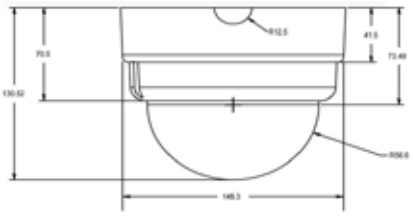
Product Codes

HD Minidome Camera (PAL)	Standard Lens	Standard Lens with remote Zoom and Focus
HD Internal Minidome	511717	511719
HD Vandal Resistant Minidome	511737	511739
HD Environmental Vandal Resistant Minidome	n/a	511733
HD Environmental Vandal Resistant Minidome with built-in IR illuminator	n/a	511735

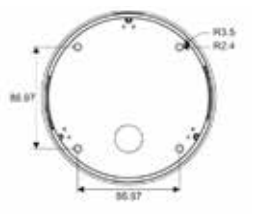
* Default frame rate for PAL Region is 25fps, configurable up to 30fps.

For more information:

Dimensions - Internal Minidome

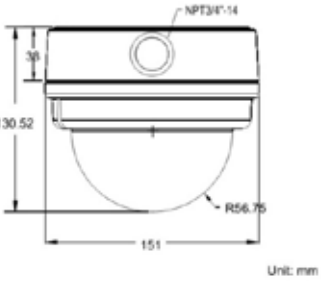


View on Side Face

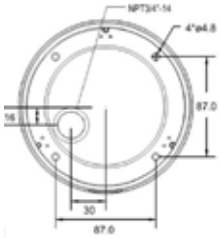


View on Top Face

Dimensions - Vandal Resistant, Environmental and IR Minidome



View on Side Face



View on Top Face

Specification

Camera Features	
Sensor	1/2.7" Progressive CMOS
Active Pixels (HxV)	2MP (1920 x 1080)
Minimum Sensitivity	Day: 0.2 lux (colour). Night: 0.02 lux (mono). 30 IRE, F1.2, 1/15s shutter
Horizontal Resolution	> 800 TVL
Dynamic Range	WDR Low/Medium/High
Gain Control	Auto/Manual setting across a 40dB range
Back Light Compensation	On/Off
White Balance Mode	Auto/Manual
Day/Night	True Day/Night with Mechanical IR Cut Filter
IR Illuminator	Built-in IR Illuminator 850nm wavelength, effective distance 20m
Video Resolution	1920x1080 pixels (1080p); 1280x720 pixels (720p); 720x576 pixels (D1); 352x288 pixels (SIF)
Lens Options	Standard: 3mm - 9mm, Horizontal view angle 103.5° (W) 34.3° (T), F1.2, Vari-focal, M14 mount with Remote Zoom/Focus option
Iris Control	DC Auto-iris
Shutter	Rolling; Auto from 1 to 1/10000 sec
Exposure Control	Auto/Manual/Slow AE
Gimbal Adjustment	3 axis adjustment
Video Compression	Full frame rate, full colour: H.264/MJPEG; up to 25fps @ 1080p resolution
Video Bit Rate	User-configurable bit rates from 64Kbps up to 8Mbps
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to four 4Mbps unicast connections; Up to four 1Mbps unicast connections
Video Multi-Encoder	Up to three simultaneous resolutions including: 1080p (25fps), 720p (25fps), D1 (25fps), SIF (25fps)
Video Output	PAL composite video, 75 Ohms 1V p-p, BNC connector
Video Analytics	Motion Detection, Hooded
Audio Compression	G.711
Audio Bit Rate	User-configurable bit rates from 64Kbps to 80Kbps per channel
Audio Resolution	Full Duplex 8kHz sample rate. Mono Input, Mono Output
Audio Input	Line in, terminal block connector
Audio Output	Line out, terminal block connector
Binary Input/Output	1 input; 1 solid state opto-isolated relay output
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RTP, RTSP, ICMP, IGMP, SNMP, HTTP, HTTPS, PPPoE, uPnP, QoS, DHCP
Network Security	HTTPS / IP Filter / IEEE 802.1x
Time	Embedded real-time clock, NTP client
Regulatory	EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 22, FCC Part 15 Subpart B Class A, EN 50130-4, AS/NZS CISPR 24, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11
IndigoVision Software Requirements	SMS4™ r5/Control Center v11.0 or later
ONVIF	Profile S

Camera Features	Internal	Vandal Resistant	Environmental Vandal Resistant	Environmental Vandal Resistant with IR
Dimension/Weight	147mm (dia.) x 131mm (h) and 0.7Kg	151mm (dia.) x 131mm (h) and 0.7Kg	151mm (dia.) x 131mm (h) and 0.7Kg	151mm (dia.) x 131mm (h) and 0.7Kg
Housing	Polycarbonate/ABS with polycarbonate dome	Diecast aluminium alloy with polycarbonate dome	Diecast aluminium alloy with polycarbonate dome	Diecast aluminium alloy with polycarbonate dome
Protection Rating	N/A	IP65/IP66*/IK10 (IEC 62262)	IP65/IP66*/IK10 (IEC 62262)	IP65/IP66*/IK10 (IEC 62262)
Electrical	PoE (802.3af Class 0) or 12V DC / 24V AC; 4W (camera only) Power supply not included		12V DC / 24V AC; 14W (with fan heater) Power supply not included	
Operating Temperature	0°C to 50°C	-10°C to 50°C	-30°C to 50°C	-30°C to 50°C
Cold Start	0°C	-10°C	-20°C	-20°C

* IP66 when installed with a 3/4" NPT fixed conduit pipe or pre-terminated cable and gland, product code: 110267.
** SDCard Storage independent of IndigoVision's NVRs.

IndigoVision
Complete IP Video Security Solutions



HD Microdome Camera

Seamless open standard High Definition video

Part of IndigoVisions professional BX Range, the High Definition (HD) Microdome Camera (BX400) delivers pin sharp detail at 2MP resolution that is fully ONVIF conformant. Any single point of failure in the system is removed through IndigoVision's Distributed Network Architecture (DNA).

Key Features

SENSOR: HD, WDR

COMPRESSION: H.264, UP TO 25fps, G.711

INTELLIGENCE: Motion Detection

OTHER: DNA, PoE, ONVIF

PHYSICAL: Outdoor, Integral Mic

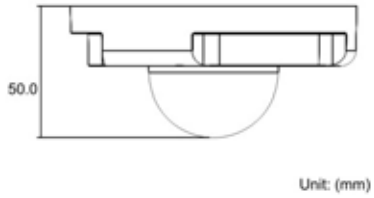
Product Codes

HD Microdome Camera (PAL)	Standard Lens
HD Internal Microdome	511707
HD External Microdome	511709

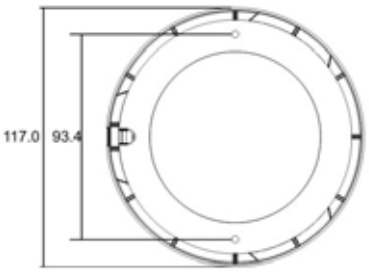
* Default frame rate for PAL Region is 25fps, configurable up to 30fps.

For more information:

Dimensions - Internal/External



View on Side Face



View on Top Face

Specification

Camera Features	
Sensor	1/2.7" Progressive CMOS
Active Pixels (HxV)	2MP (1920 x 1080)
Horizontal Resolution	> 800 TVL
Minimum Sensitivity	Day-only: 0.1 lux (colour). 30 IRE, F1.5, 1/15s shutter
Dynamic Range	WDR Low/Medium/High
Gain Control	Auto/Manual setting across a 40dB range
Back Light Compensation	On/Off
White Balance Mode	Auto/Manual
Day/Night	Day-only
Video Resolution	1920x1080 pixels (1080p); 1280x720 pixels (720p); 720x576 pixels (D1); 352x288 pixels (SIF)
Signal/Noise Level	> 39dB
Lens Options	Standard: 4mm, Horizontal view angle 78°, F1.5; Fixed iris
Shutter Speed	Auto from 1 to 1/10000 sec
Exposure Control	Auto/Manual/Slow AE
Gimbal Adjustment	2 axis adjustment
Video Compression	Full frame rate, full colour: H.264/MJPEG; up to 25fps @ 1080p resolution
Video Bit Rate	User-configurable bit rates from 64Kbps up to 8Mbps
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to four 4Mbps unicast connections; Up to four 1Mbps unicast connections
Video Multi-Encoder	Up to three simultaneous resolutions including: 1080p (25fps), 720p (25fps), D1 (25fps), SIF (25fps)
Video Analytics	Motion Detection, Hooded
Audio Compression	G.711
Audio Bit Rate	User-configurable bit rates from 64Kbps to 80Kbps per channel
Audio Resolution	Full Duplex 8kHz sample rate. Mono Input (Internal Only)
Audio Input	Built-in microphone (Internal Only)
Audio Output	N/A
Binary Input/Output	N/A
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RTP, RTSP, ICMP, IGMP, SNMP, HTTP, HTTPS, PPPoE, uPnP, QoS, DHCP
Network Security	HTTPS / IP Filter / IEEE 802.1x
Time	Embedded real-time clock, NTP client
SD Storage*	microSDHC 32GB support (card not included)
Regulatory	EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 22, FCC Part 15 Subpart B Class A, EN 50130-4, AS/NZS CISPR 24, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11
Electrical	PoE (802.3af Class 0) or 12V DC / 24V AC; 4W. Power supply not included
IndigoVision Software Requirements	SMS4™ r5/Control Center v11.0 or later

Camera Features	Internal	External
Dimension/Weight	117mm (dia.) x 50mm (h) and 180g	117mm (dia.) x 50mm (h) and 180g
Housing	Polycarbonate/ABS with polycarbonate dome	Polycarbonate/ABS with polycarbonate dome
Protection Rating	N/A	IP66
Operating Temperature	0°C to 50°C	-10°C to 50°C

* SDCard Storage independent of IndigoVision's NVRs.

IndigoVision
Complete IP Video Security Solutions

BX RANGE

20x Optical



HD PTZ Dome Camera

Seamless open standard High Definition video

Part of IndigoVisions professional BX Range, the High Definition (HD) PTZ Dome Camera (BX500) delivers pin sharp detail at 2MP resolution that is fully ONVIF conformant. Any single point of failure in the system is removed through IndigoVision's Distributed Network Architecture (DNA).

Key Features

SENSOR



COMPRESSION



INTELLIGENCE



OTHER



PHYSICAL



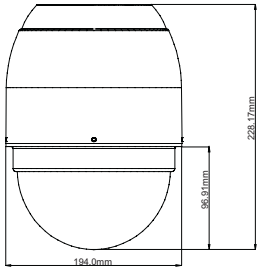
Product Codes

HD PTZ Dome Camera (PAL)	
Internal HD PTZ Dome	511787
External HD PTZ Dome	511797

* Default frame rate for PAL Region is 25fps, configurable up to 30fps.

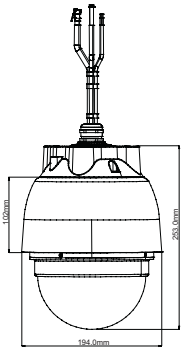
For more information:

Dimensions - Internal PTZ Dome



View on Side Face

Dimensions - External PTZ Dome



View on Side Face

Specification

Camera Features	
Sensor	1/2.8" Progressive CMOS
Active Pixels	2MP (1920 x 1080)
Horizontal Resolution	> 800 TVL
Minimum Sensitivity	Day: 0.3 Lux (colour). Night: 0.04 Lux (mono). 30 IRE, F1.6, 1/30s shutter
Dynamic Range	On/Off
Gain Control	Auto/Manual setting
Back Light Compensation	On/Off
White Balance Mode	Auto/Manual
Day/Night	True Day/Night with mechanical IR Cut filter
Video Resolution	1920x1080 pixels (1080p); 1280x720 pixels (720p); 720x576 pixels (D1); 352x288 pixels (SIF)
Signal/Noise Level	> 50dB
Lens Options	4.7mm - 94mm Horizontal view angle 52.2°(W) 4.1° (T)
Zoom	20x optical + 10x digital
Shutter	Rolling; Auto from 1 - 1/10000 sec
Exposure Control	Auto/Manual/Slow AE/Shutter-priority/Iris-priority
Video Compression	Full frame rate, full colour: H.264/MJPEG ; up to 25fps (ISO 14496-10)
Video Bit Rate	User-configurable bit rates from 64Kbps up to 8Mbps
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to four 4Mbps unicast connections; Up to four 1Mbps unicast connections
Video Multi-Encoder	Up to three simultaneous resolutions including: 1080p (25fps), 720p (25fps), D1 (25fps), SIF (25fps)
Video Analytics	Motion Detection, Hooded
Audio Compression	G.711
Audio Bit Rate	User-configurable bit rates from 64Kbps to 80Kbps per channel
Audio Resolution	Full Duplex 8kHz sample rate. Mono Input, Mono Output
Audio Input	Line in
Audio Output	Line out
Binary Input/Output	4 inputs; 2 outputs
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RTP, RTSP, ICMP, IGMP, SNMP, HTTP, HTTPS, PPPoE, uPnP, QoS, DHCP
Network Security	HTTPS / IP Filter / IEEE 802.1x
Time	Embedded real-time clock, NTP client
SD Storage	microSDHC 32GB support (card not included)
Regulatory	EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 22, FCC Part 15 Subpart B Class A, EN 50130-4, AS/NZS CISPR 24, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11
IndigoVision Software Requirements	SMS4™ r5/Control Center v11.0 or later
ONVIF	Profile S

PTZ Control			
Preset	256	Pan Range	360° Continuous Rotation
Preset Accuracy	0.225°	Tilt Range	200° (-10°above horizon)
Preset Tours	8	Pan/Tilt Speed	Pan Speed - 0.5-120°/s. Tilt Speed - 0.5-90°/s
Pattern Mimic Tours	8	Preset Move Speed	5-400°/s
Privacy Zones	16 User Defined		

Camera Features	Internal	External
Dimension/Weight	194mm (dia) x 228mm (h) and 1.62Kg	194mm (dia) x 223mm (h) and 2.32Kg
Housing	Aluminium alloy and polycarbonate/ABS with polycarbonate dome	Vandal resistant aluminium alloy with polycarbonate dome
Protection Rating	N/A	IP66/IK10 (IEC 62262)
Electrical	20W. PoE + (802.3at Class 4) or 24V AC/DC. Power supply not included	65W (with Heater), 20W (without Heater) 24V AC Power supply included
Operating Temperature	0°C to 40°C	-30°C to 50°C
Cold Start	0°C	-30°C

BX RANGE

IndigoVision
Complete IP Video Security Solutions

3x Optical



5MP Bullet Camera

Amazing 5 Megapixel video that delivers every detail

Part of IndigoVisions professional BX Range, the 5 Megapixel (5MP) Bullet Camera (BX600) delivers pin sharp detail at 5MP resolution that is fully ONVIF conformant. Any single point of failure in the system is removed through IndigoVision's Distributed Network Architecture (DNA).

Key Features

SENSOR
5MP
Day/Night
WDR

COMPRESSION
H.264
UP TO 12fps
G.711

INTELLIGENCE
Motion Detection

OTHER
DNA
PoE
ONVIF

PHYSICAL
Outdoor
IR
Low Temp

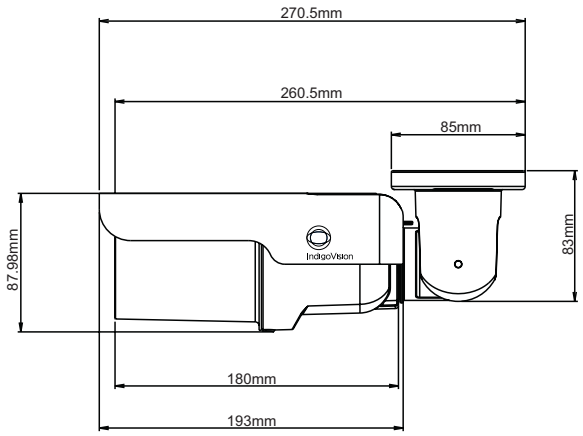
Product Codes

5MP Bullet Camera (PAL)	
Standard Lens with Remote Zoom and Focus	511867

* Default frame rate for PAL Region is 25fps, configurable up to 30fps.

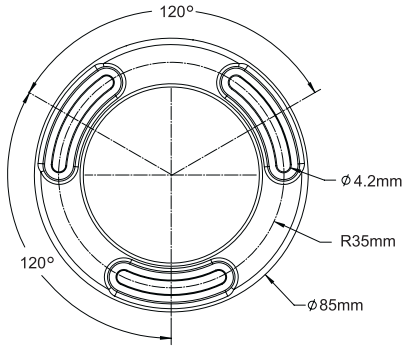
For more information:

Dimensions - HD Bullet Camera



View on Side Face

Dimensions - Mounting Hole Pattern



View on Front Face

Specification

Camera Features	
Sensor	1/2.5" Progressive CMOS
Active Pixels (HxV)	5MP (2592 x 1944)
Horizontal Resolution	> 1100 TVL
Minimum Sensitivity	Day: 0.2 lux (colour). Night: 0.02 lux (mono). 30 IRE, F1.8, 1/15s shutter
Dynamic Range	WDR Low/Medium/High
Gain Control	Auto/Manual setting across a 40dB range
Back Light Compensation	On/Off
White Balance Mode	Auto/Manual
Day/Night	True Day/Night with Mechanical IR Cut Filter
IR Illuminator	Built-in IR Illuminator 850nm wavelength, effective distance 20m
Video Resolution	2592x1944 pixels (5MP); 2048x1536 pixels (3MP); 1920x1080 pixels (1080p); 1280x720 pixels (720p); 720x576 pixels (D1); 352x288 pixels (SIF)
Signal/Noise Level	> 37dB
Lens Options	Standard: 3.6mm - 9mm, Horizontal view angle 90° (W) 36° (T), F1.8
Iris Control	DC Auto-iris
Shutter	Rolling; Auto from 1 to 1/10000 sec
Exposure Control	Auto/Manual/Slow AE
Video Compression	Full frame rate, full colour: H.264/MJPEG; up to 25fps @ 1080p resolution; up to 12fps @ 5MP resolution
Video Bit Rate	User-configurable bit rates from 64Kbps up to 8Mbps
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to four 4Mbps unicast connections; Up to four 1Mbps unicast connections
Video Multi-Encoder	Up to three simultaneous resolutions including: 5MP (12fps), 3MP (15fps), 1080p (25fps), 720p (25fps), D1 (25fps), SIF (25fps)
Video Output	PAL composite video, 75 Ohms 1V p-p, BNC cable harness
Video Analytics	Motion Detection, Hooded
Audio Compression	G.711
Audio Bit Rate	User-configurable bit rates from 64Kbps to 80Kbps per channel
Audio Resolution	Full Duplex 8kHz sample rate. Mono Input, Mono Output
Audio Input	Line in, terminal block connector
Audio Output	Line out, terminal block connector
Binary Input/Output	1 input ; 1 solid state opto-isolated relay output
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RTP, RTSP, ICMP, IGMP, SNMP, HTTP, HTTPS, PPPoE, uPnP, QoS, DHCP
Network Security	HTTPS / IP Filter / IEEE 802.1x
Time	Embedded real-time clock, NTP client
SD Storage*	microSDHC 32GB support (card not included)
Dimension/Weight	88mm (dia.) x 193mm (h) and 0.94Kg (with sun shade)
Regulatory	EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 22, FCC Part 15 Subpart B Class A, EN 50130-4, AS/NZS CISPR 24, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11
Housing	Vandal resistant diecast aluminium alloy with polycarbonate sun shade
Protection Rating	IP66
Electrical	Camera only: PoE (802.3af Class 0) or 12V DC / 24V AC; 5.5W. Camera including heater: 12V DC / 24V AC; Power consumption: 24W. Power supply not included
Operating Temperature	PoE powered: 0°C to 50°C External PSU: -30°C to 50°C
Cold Start	-30°C
IndigoVision Software Requirements	SMS4™ r7/Control Center v11.0 or later
ONVIF	Profile S

* SDCard Storage independent of IndigoVision's NVRs.

IndigoVision
Complete IP Video Security Solutions



5MP Fixed Camera

Amazing 5 Megapixel video that delivers every detail

Part of IndigoVisions professional BX Range, the 5 Megapixel (5MP) Fixed Camera (BX600) delivers pin sharp detail at 5MP resolution that is fully ONVIF conformant. Any single point of failure in the system is removed through IndigoVision's Distributed Network Architecture (DNA).

Key Features

SENSOR



COMPRESSION



INTELLIGENCE



OTHER



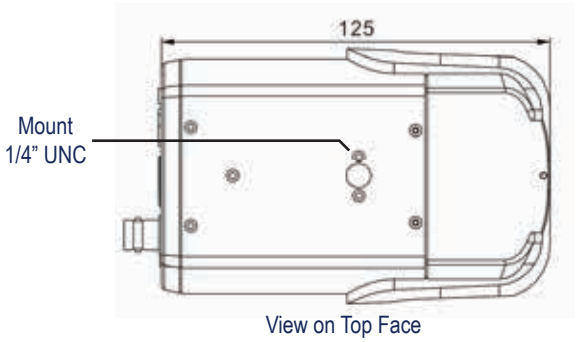
Product Codes

5MP Fixed Camera (PAL)	
Standard Lens	511847
Telephoto Lens	511849

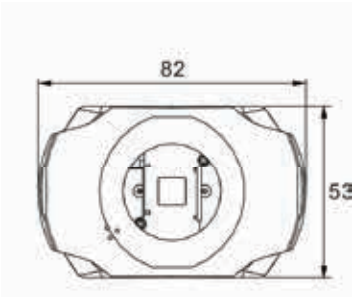
* Default frame rate for PAL Region is 25fps, configurable up to 30fps.

For more information:

Dimensions



View on Top Face



View on Front Face

Specification

Camera Features	
Sensor	1/2.5" Progressive CMOS
Active Pixels (HxV)	5MP (2592 x 1944)
Horizontal Resolution	> 1100 TVL
Minimum Sensitivity	Day: 0.2 lux (colour). Night: 0.02 lux (mono) 30 IRE, F1.5, 1/15s shutter
Dynamic Range	WDR Low/Medium/High
Gain Control	Auto/Manual setting across a 40dB range
Back Light Compensation	On/Off
White Balance Mode	Auto/Manual
Day/Night	True Day/Night with Mechanical IR Cut Filter
Video Resolution	2592x1944 pixels (5MP); 2048x1536 pixels (3MP); 1920x1080 pixels (1080p); 1280x720 pixels (720p); 720x576 pixels (D1); 352x288 pixels (SIF)
Signal/Noise Level	> 37dB
Lens Options	Standard: 3.5mm - 10mm, Horizontal view angle 83° (W) 32° (T), F1.6, Vari-focal, CS mount Telephoto: 9mm - 40mm, Horizontal view angle 35° (W) 8.2° (T), F1.5, Vari-focal, CS mount
Iris Control	DC Auto-iris
Shutter	Rolling; Auto from 1 to 1/10000 sec
Exposure Control	Auto/Manual/Slow AE
Video Compression	Full frame rate, full colour: H.264/MJPEG; up to 25fps @ 1080p resolution; up to 12fps @ 5MP resolution
Video Bit Rate	User-configurable bit rates from 64Kbps up to 8Mbps
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to four 4Mbps unicast connections; Up to four 1Mbps unicast connections
Video Multi-Encoder	Up to three simultaneous resolutions including: 5MP (12fps), 3MP (15fps), 1080p (25fps), 720p (25fps), D1 (25fps), SIF (25fps)
Video Output	PAL composite video, 75 Ohms 1V p-p, BNC connector
Video Analytics	Motion Detection, Hooded
Audio Compression	G.711
Audio Bit Rate	User-configurable bit rates from 64Kbps to 80Kbps per channel
Audio Resolution	Full Duplex 8kHz sample rate. Mono Input, Mono Output
Audio Input	Line in, 3.5mm jack connector
Audio Output	Line out, 3.5mm jack connector
Binary Input/Output	1 input ; 1 solid state opto-isolated relay output
Data Input/Output	1 Data port: RS485 up to 115.2 Kbps
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RTP, RTSP, ICMP, IGMP, SNMP, HTTP, HTTPS, PPPoE, uPnP, QoS, DHCP
Network Security	HTTPS / IP Filter / IEEE 802.1x
Time	Embedded real-time clock, NTP client
SD Storage*	microSDHC 32GB support (card not included)
Dimension/Weight	125mm (d) x 82mm (w) x 53mm (h) and 0.33Kg
Regulatory	EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 22, FCC Part 15 Subpart B Class A, EN 50130-4, AS/NZS CISPR 24, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11
Housing	Aluminium alloy with polycarbonate dome
Electrical	PoE (802.3af Class 0) or 12V DC / 24V AC; 6W. Power supply not included
Operating Temperature	0°C to 50°C
IndigoVision Software Requirements	SMS4™ r7/Control Center v11.0 or later
ONVIF	Profile S

* SDCard Storage independent of IndigoVision's NVRs.

IndigoVision
Complete IP Video Security Solutions



5MP Minidome Cameras

Amazing 5 Megapixel video that delivers every detail

Part of IndigoVisions professional BX Range, the 5 Megapixel (5MP) Minidome Camera (BX400) delivers pin sharp detail at 5MP resolution that is fully ONVIF conformant. Any single point of failure in the system is removed through IndigoVision's Distributed Network Architecture (DNA).

Key Features

SENSOR



COMPRESSION



INTELLIGENCE



OTHER



PHYSICAL



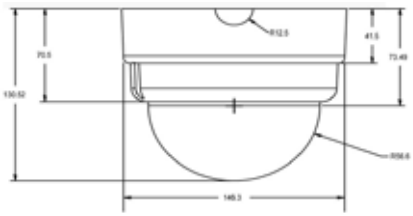
Product Codes

5MP Minidome Camera (PAL)	Standard Lens with remote Zoom and Focus
5MP Internal Minidome	511817
5MP Vandal Resistant Minidome	511837

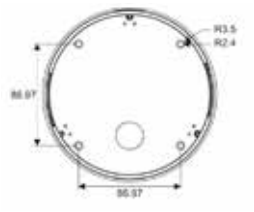
* Default frame rate for PAL Region is 25fps, configurable up to 30fps.

For more information:

Dimensions - Internal Minidome

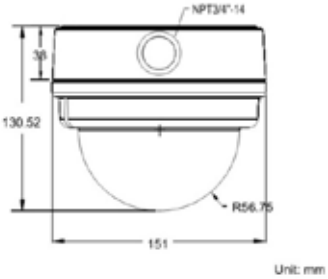


View on Side Face

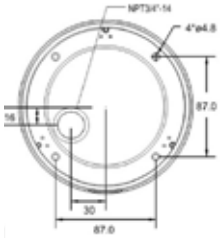


View on Top Face

Dimensions - Vandal Resistant Minidome



View on Side Face



View on Top Face

Specification

Camera Features	
Sensor	1/2.5" Progressive CMOS
Active Pixels (HxV)	5MP (2592 x 1944)
Horizontal Resolution	> 1100 TVL
Minimum Sensitivity	Day: 0.2 lux (colour). Night: 0.02 lux (mono). 30 IRE, F1.8, 1/15s shutter
Dynamic Range	WDR Low/Medium/High
Gain Control	Auto/Manual setting across a 40dB range
Back Light Compensation	On/Off
White Balance Mode	Auto/Manual
Day/Night	True Day/Night with Mechanical IR Cut Filter
Video Resolution	2592x1944 pixels (5MP); 2048x1536 pixels (3MP); 1920x1080 pixels (1080p); 1280x720 pixels (720p); 720x576 pixels (D1); 352x288 pixels (SIF)
Signal/Noise Level	> 37dB
Lens Options	Standard: 3.6mm - 9mm, Horizontal view angle 90° (W) 36° (T), F1.8
Iris Control	DC Auto-iris
Shutter	Rolling; Auto from 1 to 1/10000 sec
Exposure Control	Auto/Manual/Slow AE
Gimbal Adjustment	3 axis adjustment
Video Compression	Full frame rate, full colour: H.264/MJPEG; up to 25fps @ 1080p resolution; up to 12fps @ 5MP resolution
Video Bit Rate	User-configurable bit rates from 64Kbps up to 8Mbps
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to four 4Mbps unicast connections; Up to four 1Mbps unicast connections
Video Multi-Encoder	Up to three simultaneous resolutions including: 5MP (12fps), 3MP (15fps), 1080p (25fps), 720p (25fps), D1 (25fps), SIF (25fps)
Video Output	PAL composite video, 75 Ohms 1V p-p, BNC connector
Video Analytics	Motion Detection, Hooded
Audio Compression	G.711
Audio Bit Rate	User-configurable bit rates from 64Kbps to 80Kbps per channel
Audio Resolution	Full Duplex 8kHz sample rate. Mono Input, Mono Output
Audio Input	Line in, terminal block connector
Audio Output	Line out, terminal block connector
Binary Input/Output	1 input; 1 solid state opto-isolated relay output
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RTP, RTSP, ICMP, IGMP, SNMP, HTTP, HTTPS, PPPoE, uPnP, QoS, DHCP
Network Security	HTTPS / IP Filter / IEEE 802.1x
Time	Embedded real-time clock, NTP client
SD Storage**	microSDHC 32GB support (card not included)
Regulatory	EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 22, FCC Part 15 Subpart B Class A, EN 50130-4, AS/NZS CISPR 24, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11
IndigoVision Software Requirements	SMS4™ r7/Control Center v11.0 or later
ONVIF	Profile S

Camera Features	Internal	Vandal Resistant
Dimension/Weight	147mm (dia.) x 131mm (h) and 0.7Kg	151mm (dia.) x 131mm (h) and 0.7Kg
Housing	Polycarbonate/ABS with polycarbonate dome	Diecast aluminium alloy with polycarbonate dome
Protection Rating	N/A	IP65/IP66*/IK10 (IEC 62262)
Electrical	PoE (802.3af Class 0) or 12V DC / 24V AC; 4W (camera only) Power supply not included	PoE (802.3af Class 0) or 12V DC / 24V AC; 4W (camera only) Power supply not included
Operating Temperature	0°C to 50°C	-10°C to 50°C
Cold Start	0°C	-10°C

* IP66 when installed with a 3/4" NPT fixed conduit pipe or pre-terminated cable and gland, product code: 110267.
** SDCard Storage independent of IndigoVision's NVRs.

IndigoVision
Complete IP Video Security Solutions



5MP Microdome Camera

Amazing 5 Megapixel video that delivers every detail

Part of IndigoVisions professional BX Range, the 5 Megapixel (5MP) Microdome Camera (BX400) delivers pin sharp detail at 5MP resolution that is fully ONVIF conformant. Any single point of failure in the system is removed through IndigoVision's Distributed Network Architecture (DNA).

Key Features

SENSOR
5MP
WDR

COMPRESSION
H.264
UP TO 12fps
G.711

INTELLIGENCE
Motion Detection

OTHER
DNA
PoE
ONVIF

PHYSICAL
Outdoor
Integral Mic

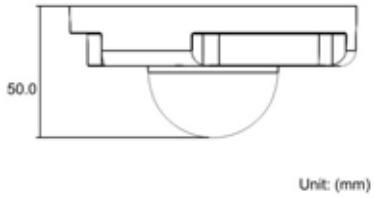
Product Codes

5MP Microdome Camera (PAL)	Standard Lens
5MP Internal Microdome	511807
5MP External Microdome	511809

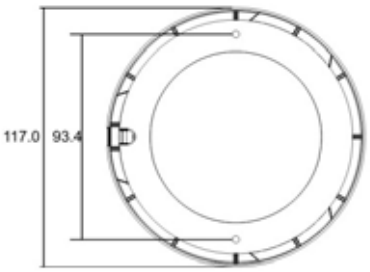
* Default frame rate for PAL Region is 25fps, configurable up to 30fps.

For more information:

Dimensions - Internal/External



View on Side Face



View on Top Face

Specification

Camera Features	
Sensor	1/2.5" Progressive CMOS
Active Pixels (HxV)	5MP (2592 x 1944)
Horizontal Resolution	> 1100 TVL
Minimum Sensitivity	Day-only: 0.1 lux (colour). 30 IRE, F1.8, 1/15s shutter
Dynamic Range	WDR Low/Medium/High
Gain Control	Auto/Manual setting across a 40dB range
Back Light Compensation	On/Off
White Balance Mode	Auto/Manual
Day/Night	Day-only
Video Resolution	2592x1944 pixels (5MP); 2048x1536 pixels (3MP); 1920x1080 pixels (1080p); 1280x720 pixels (720p); 720x576 pixels (D1); 352x288 pixels (SIF)
Signal/Noise Level	> 37dB
Lens Options	Standard: 4mm, Horizontal view angle 90°, F1.8; Fixed iris
Shutter	Rolling; Auto from 1 to 1/10000 sec
Exposure Control	Auto/Manual/Slow AE
Gimbal Adjustment	2 axis adjustment
Video Compression	Full frame rate, full colour: H.264/MJPEG; up to 25fps @ 1080p resolution; up to 12fps @ 5MP resolution
Video Bit Rate	User-configurable bit rates from 64Kbps up to 8Mbps
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to four 4Mbps unicast connections; Up to four 1Mbps unicast connections
Video Multi-Encoder	Up to three simultaneous resolutions including: 5MP (12fps), 3MP (15fps), 1080p (25fps), 720p (25fps), D1 (25fps), SIF (25fps)
Video Analytics	Motion Detection, Hooded
Audio Compression	G.711
Audio Bit Rate	User-configurable bit rates from 64Kbps to 80Kbps per channel
Audio Resolution	Full Duplex 8kHz sample rate. Mono Input, Mono Output
Audio Input	Built-in microphone (Internal Only)
Audio Output	N/A
Binary Input/Output	N/A
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RTP, RTSP, ICMP, IGMP, SNMP, HTTP, HTTPS, PPPoE, uPnP, QoS, DHCP
Network Security	HTTPS / IP Filter / IEEE 802.1x
Time	Embedded real-time clock, NTP client
SD Storage*	microSDHC 32GB support (card not included)
Regulatory	EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 22, FCC Part 15 Subpart B Class A, EN 50130-4, AS/NZS CISPR 24, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11
Electrical	PoE (802.3af Class 0); 4W. Power supply not included
IndigoVision Software Requirements	SMS4™ r7/Control Center v11.0 or later
ONVIF	Profile S

Camera Features	Internal	External
Dimension/Weight	117mm (dia.) x 50mm (h) and 180g	117mm (dia.) x 50mm (h)and 180g
Housing	Polycarbonate/ABS with polycarbonate dome	Polycarbonate/ABS with polycarbonate dome
Protection Rating	N/A	IP66
Operating Temperature	0°C to 50°C	-10°C to 50°C

* SDCard Storage independent of IndigoVision's NVRs.

IndigoVision
Complete IP Video Security Solutions



Ultra 5K Fixed Camera

Capture every detail with ultra-high resolution

The first ultra-high resolution camera designed for security installations, IndigoVision's Ultra 5K Fixed Camera (Ultra 5K) has a resolution of over five thousand horizontal pixels, providing wider scene coverage and capturing every detail at an outstanding 6 frames per second, even in low light. The IndigoVision Ultra 5K is fully integrated with Control Center, IndigoVision's management software and Network Video Recorders (NVRs).

Key Features

SENSOR
ULTRA 5K

COMPRESSION
H.264 JPEG 2000 UP TO 6fps

INTELLIGENCE
Motion Detection

OTHER
ONVIF

PHYSICAL
Outdoor

For more information:

Product Codes

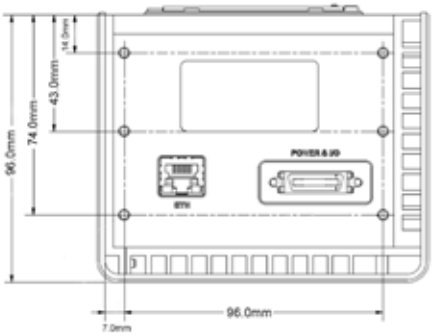
Ultra 5K Fixed Camera	Camera	Camera plus Management Software
Ultra 5K*	511601	561601
Ultra 5K with Environmental IP67 Enclosure*	511611	561611

Video Stream Manager (VSM)	
VSM 4000 Video Stream Manager, Windows, 1U Rack Mount plus Hardware ProSupport	980425
VSM 4000 Video Stream Manager, Windows, 1U Rack Mount, excluding Hardware ProSupport	980420

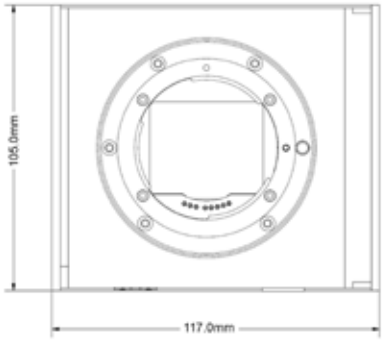
* Lens not included.

Lenses (Canon EF)			
24mm, F1.4 Auto-Iris lens	110111	85mm, F1.8 Auto-Iris lens	110117
35mm, F1.4 Auto-Iris lens	110112	100mm, F2.0 Auto-Iris lens	110118
35mm, F2.0 Auto-Iris lens	110113	200mm, F2.8 Auto-Iris lens	110119
50mm, F1.2 Auto-Iris lens	110114	16-35mm, F2.8 Auto-Iris, Vari Focal lens	110120
50mm, F1.8 Auto-Iris lens	110115	24-70mm, F2.8 Auto-Iris, Vari Focal lens	110121
85mm, F1.2 Auto-Iris lens	110116	70-200mm, F2.8 Auto-Iris, Vari Focal lens	110122

Dimensions - Ultra 5K Fixed Camera

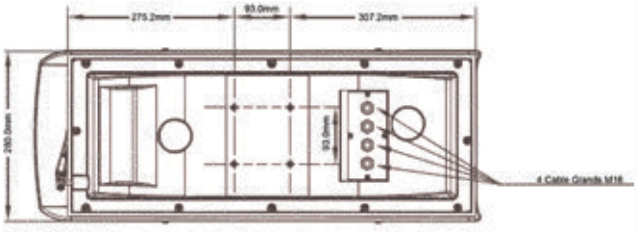


View on Back Face

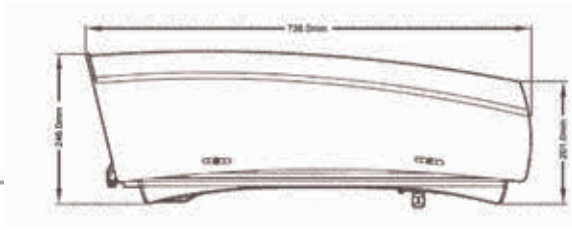


View on Front Face

Dimensions - Environmental IP67 Enclosure



View on Bottom Face



View on Side Face

View on Top Face

Specification

Camera Features	
Sensor	35mm Progressive CMOS
Active Pixels (HxV)	20MP (5120 x 3840)
Horizontal Resolution	> 3000 TVL
Minimum Sensitivity	Day-only: 0.01 lux (colour). 50 IRE, F1.0, 1/30s shutter
Dynamic Range	66dB
Gain Control	Auto/Manual
White Balance Mode	Auto/Manual
Day/Night	Day-only
Video Resolution	5120 x 3840 pixels (5K) + 1280 x 960 pixels (960p)
Lens Options	Canon® EF (SLR-style bayonet) Wide range of focal lengths available. Supplied with IR and UV filter
Iris Control	Full remote iris and focus control options
Shutter	Global; Auto from 1/6666 sec to 1 sec
Exposure Control	Auto/Manual
Video Compression	JPEG2000 Ultra 5K plus H.264 HD overview. 120 Megapixels/sec processing power
Video Bit Rate	Up to 100Mbps
Video Multi-Encoder	Two simultaneous JPEG2000 resolutions including: 5K (6fps), 960p (6fps). Single H.264 (ONVIF) resolution of 960p (25fps)
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, ICMP, HTTP, DHCP
Network Security	HTTPS
Time	Embedded real-time clock, NTP client
Regulatory	EN 55022 (2010) – Class A, EN 55024 (1998) +A1:2000 +A2:2003, CFR47(2011) Part 15 subpart B -Class A (US federal code of regulations), EN 60068-2-1 & 2 Low & High temp, EN 60068-2-6 & 64 Sinusoid & Random vibration, EN 60068-2-29 Bump, EN 60068-2-30 Humidity up to 95% Non Condensing
Mount Options	Wall mount bracket for Environmental IP67 Enclosure (Product Code: 110130)
IndigoVision Software Requirements	Control Center v11.1 or later
ONVIF	Configuration only

	Internal	With Environmental Enclosure
Dimension/Weight	96mm (d) x 117mm (w) x 105mm (h) and 1.7Kg	736mm (d) x 280mm (w) x 246mm (h) and 10.9Kg
Housing	Anodized aluminium	Diecast aluminium alloy base with ABS cover and sunshade
Protection Rating	N/A	IP67
Electrical	12V DC, 2.1A	100-240V AC, 1.4A
Operating Temperature	0°C to 50°C	-20°C to 50°C

* Up to 6fps achievable with 5fps guaranteed.

IndigoVision
Complete IP Video Security Solutions



Video Stream Manager

Intelligently manage ultra-high resolution video

IndigoVision's Video Stream Manager (VSM 4000) provides powerful and integrated enterprise management of ultra-high resolution video from the Ultra 5K Camera.

The IndigoVision VSM 4000 integrates the Ultra 5K Camera seamlessly with IndigoVision's Network Video Recorders (NVRs) and Control Center, IndigoVision's management software.

Delivering ultra-high resolution video to multiple clients, the VSM 4000 provides a truly scalable solution. Digital zoom and pan provides individual camera views for each client. Remote monitoring and recording across lower bandwidth connections can be achieved by a High Definition (HD) resolution video stream.

Key Features

SENSOR



COMPRESSION



OTHER



PHYSICAL



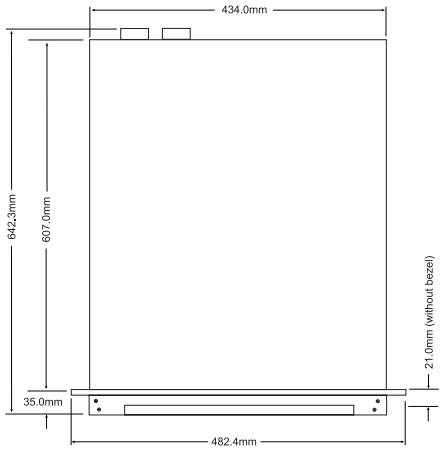
Product Codes

Video Stream Manager (VSM)	
VSM 4000 Video Stream Manager, Windows, 1U Rack Mount plus Hardware ProSupport	980425
VSM 4000 Video Stream Manager, Windows, 1U Rack Mount, excluding Hardware ProSupport	980420

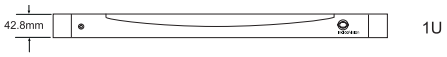
Video Stream Manager (VSM) Accessories	
Direct Attach twinax cable kit with SFP+ connectors – 1m	110351
Direct Attach twinax cable kit with SFP+ connectors – 3m	110352
Direct Attach twinax cable kit with SFP+ connectors – 5m	110353
10GBASE-SR fibre optic SFP+ transceiver	110361

For more information:

Dimensions



View on Top Face



1U View on Front Face (with removable lockable fascia)

Specification

General Specifications	
Operating System	Windows Server® 2008 R2 for Embedded Systems Essentials
Video	Live video streaming: JPEG2000 video from Ultra 5K Cameras Dual streaming – select 5120 x 3840(5K) or 1280 x 960 (960p) resolution for live viewing or recording
Form Factor	1U rack mount chassis
Hard Drive	2 operating system drives configured as RAID 1
Max Number of Ultra 5K Cameras	10
Max Number of Streams per Ultra 5K Camera	10
Max Input Bitrate	1000Mbps
Max. Number of Output Streams	45
Max Output Bitrate	4500Mbps
Electrical	350W, 100-240VAC, 50/60 Hz, Auto Switching, Dual Hot Swappable PSU
Dimensions/Weight	444mm width x 607mm depth x 42.8mm height, 19.3kg / 17.480in width x 23.898in depth x 1.685in height, 42.549lb
Processor	Intel Xeon E5
Network Interface	Dual Port Redundant 10Gb Ethernet SFP+ Direct Attach
Memory	12GB RAM (3 x 4GB)
Regulatory	EN 60950-1:2006 + A11:2009, IEC 60950-1:2005 Ed2, EN 62311:2008, EN 55022:2006 + A1:2007, CISPR 22:2005 + A1:2005, EN 61000-3-2:2006, EN 55024:1998 + A1:2001 + A2:2003 , IEC 61000-3-2:2005 (Class D), EN 61000-3-3:1995 + A1:2001 + A2:2005, IEC 61000-3-3:1994 + A1:2001 + A2:2005, CISPR 24:1997 (modified)+A1:2001 + A2:2002
Systems Management	iDRAC7 Express
Supplied Accessories	Rack Mount Kit (brackets, static rails and mounting hardware), removable lockable fascia, UOP power cord and USB restore media

IndigoVision
Complete IP Video Security Solutions



Fixed Camera Housing

The IndigoVision Fixed Camera Housing range forms part of IndigoVision's Complete IP Video Security Solution, fully integrated with Control Center, IndigoVision's complete suite of management software and Network Video Recorders (NVR's).

The IndigoVision Fixed Camera Housing is available for the 9000, 11000 and BX range fixed cameras and offers increased durability and vandal resistance through a die cast aluminium body. An integrated fan and heater gives an exceptional operating temperature range of -20°C to 50°C.

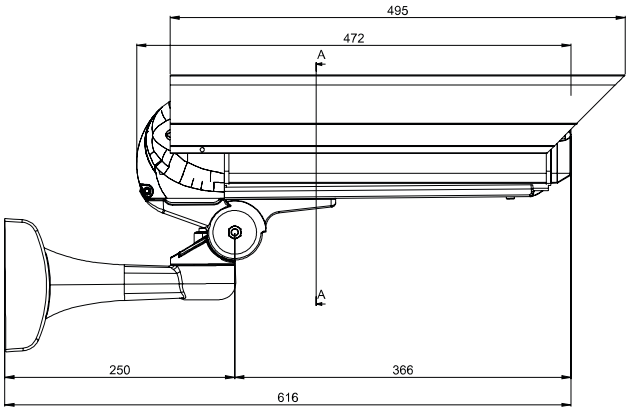
Key Features



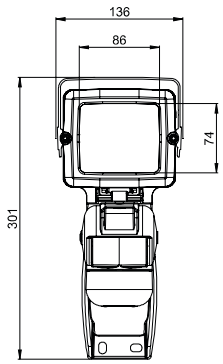
Product Codes

Fixed Camera Housing	
Fixed Camera Housing, IP66, 24V, Fan Heater	110131
Fixed Camera Housing, IK10, IP66, 24V, Fan Heater	110132

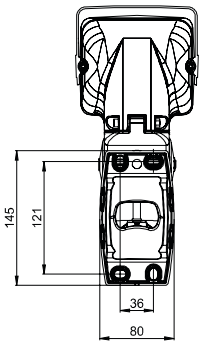
Dimensions



View on Side Face



View on Front Face



View on Back Face

Specification

General Specifications	Order Code 110131	Order Code 110132
Protection Rating	IP66	IP66, IK10
Housing	Extruded aluminium body and sunshield with die cast aluminium parts	
Paint	RAL9002 Polyester powder coating	
Dimensions/Weight	External, including wall mount bracket - 616mm (d) x 136mm (w) x 301mm (h) and 4.8Kg (with sun shade) External, housing only - 616mm (d) x 136mm (w) x 301mm (h) and 4.2Kg (with sun shade) Internal - 320mm (d) x 105mm (w) x 86mm (h)	
Electrical	Housing only: 24V DC, Power consumption 1W (Fan), Power supply not included Housing inc Heater: 24V DC, Power consumption 21W max, Power supply not included	
Operating Temperature	-20°C to 50°C	
Regulatory	CE according to EN61000-6-3, EN60950, EN50130-4	
Compatible IndigoVision Cameras	Enhanced SD Fixed Camera – 9000 Range Enhanced HD Fixed Camera – 11000 Range HD Fixed Camera – BX Range 5MP Fixed Camera – BX Range*	

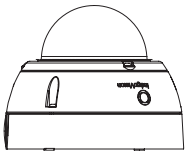
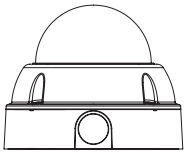
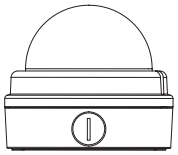
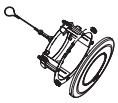
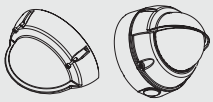
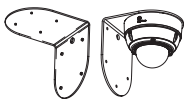
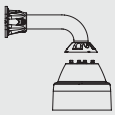
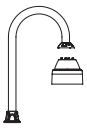
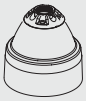
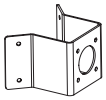
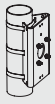
* Camera must be powered separately from enclosure using 12V DC or PoE.

Compatible IndigoVision Camera Product Codes

IndigoVision Camera (PAL)	Hardware Only	Hardware with S Licence	Hardware with E Licence
9000 Range Enhanced SD Fixed Camera - Standard Lens, Day/Night with Audio	n/a	749291	769291
9000 Range Enhanced SD Fixed Camera - Telephoto Lens, Day/Night with Audio	n/a	749295	769295
11000 Range Enhanced HD Fixed Camera - Standard Lens, Day/Night with Audio	n/a	541291	561291
11000 Range Enhanced HD Fixed Camera - Telephoto Lens, Day/Night with Audio	n/a	541295	561295
BX Range HD Fixed Camera (BX600) - 3x Autofocus Lens	511749	n/a	561749
BX Range HD Fixed Camera (BX600) - 18x Autofocus Lens	511747	n/a	561747
BX Range 5MP Fixed Camera (BX600) - Standard Lens	511847	n/a	561847
BX Range 5MP Fixed Camera (BX600) - Telephoto Lens	511849	n/a	561849

IndigoVision
Complete IP Video Security Solutions

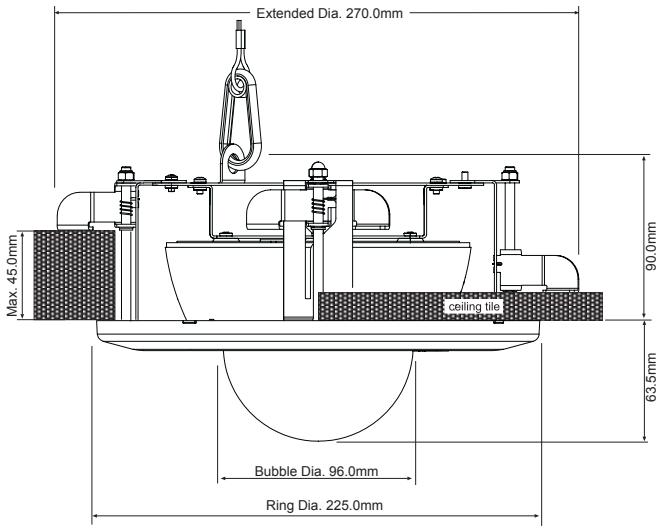
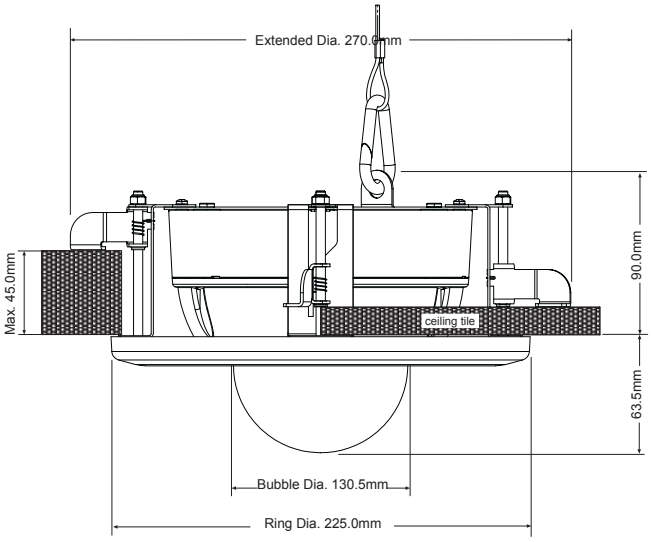
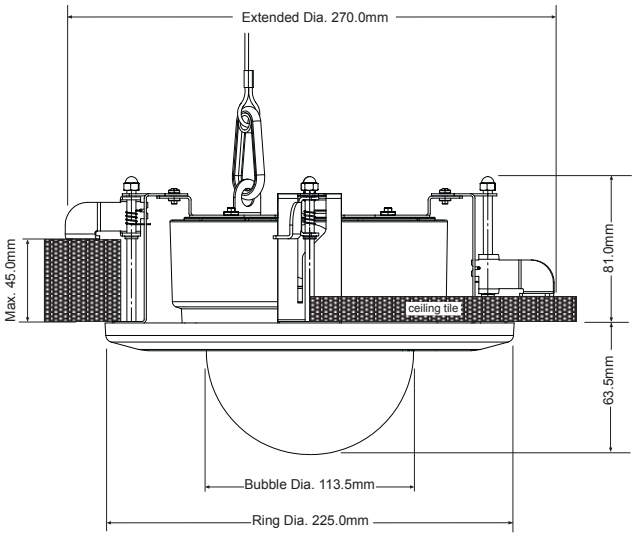
Fixed Dome Camera Module Matrix

Mount		9000 Range Enhanced SD Fixed Dome		11000 Range Enhanced HD Fixed Dome		BX Range HD/5MP Minidome (BX400)	
							
		Internal	Vandal Resistant	Internal	Vandal Resistant	Internal	Vandal Resistant
In-Ceiling Mount		110169	110169	110069	110069	110269	110269
Dome Hood		-	-	-	110034	-	-
Bracket Wall Mount		-	110026	-	110160	110160	110160
Pendant Wall Mount+		-	110020	-	110020	-	-
Pendant Swan-Neck Mount+		-	110022	-	110022	-	-
Pendant Vertical Pole Mount+		-	110024	-	110024	-	-
1.5" NPT Pendant Mount (Male)+		-	110027	-	110027	-	-
1.5" NPT Pendant Mount (Female)+		-	110028	-	110028	-	-
Corner Mount Adaptor*+		-	110082	-	110082	-	-
Pole Mount Adaptor*+		-	110096	-	110096	-	-
Cable		-	-	-	110161	-	110267

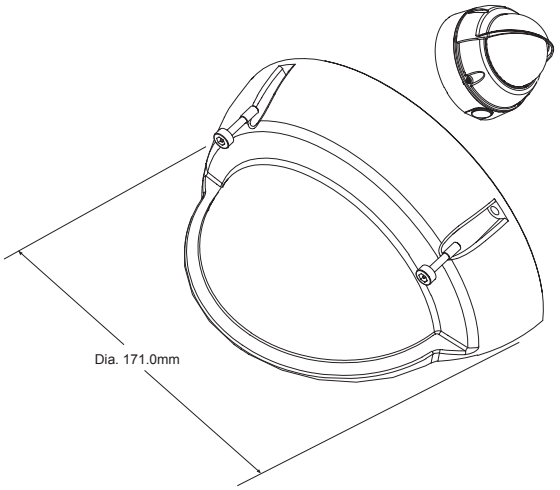
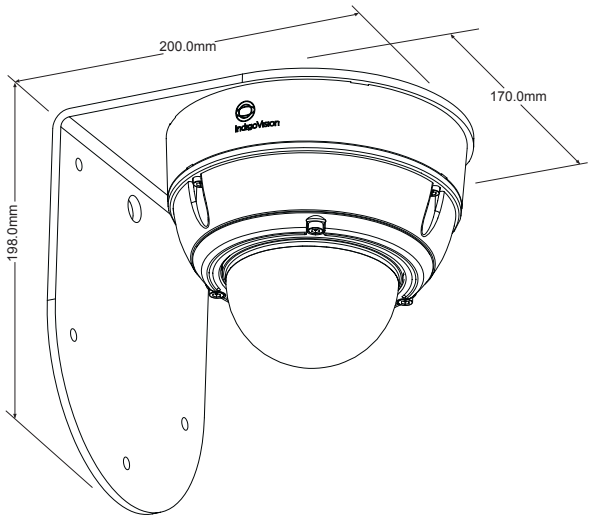
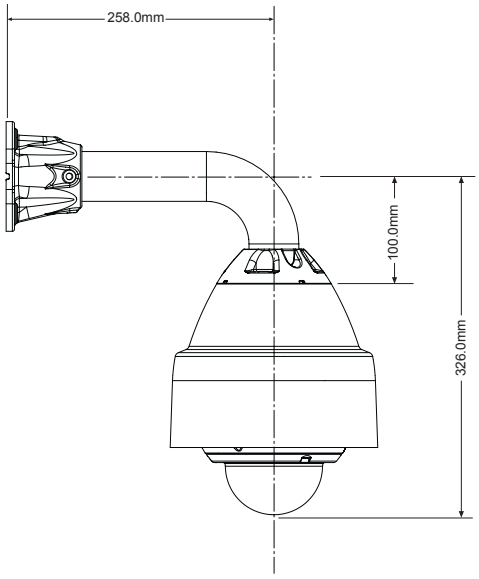
* Adaptors are compatible with the Pendant Wall Mount.
\+ All Fixed Dome Pendant Mounts include a Pendant Sun Shroud as standard.

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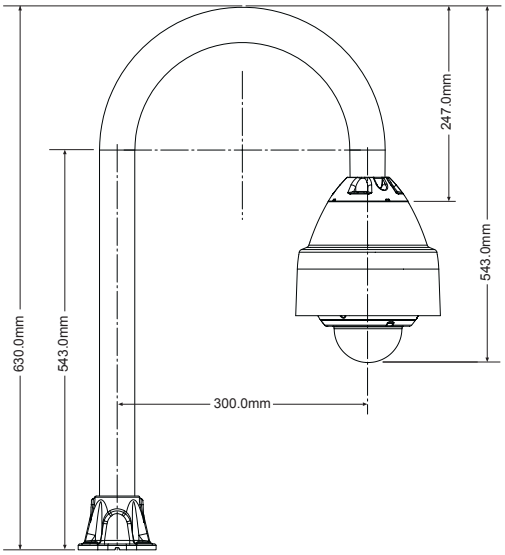
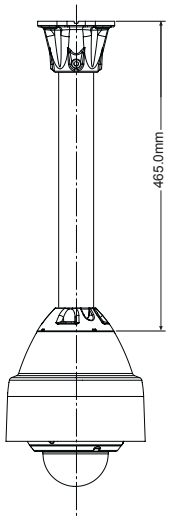
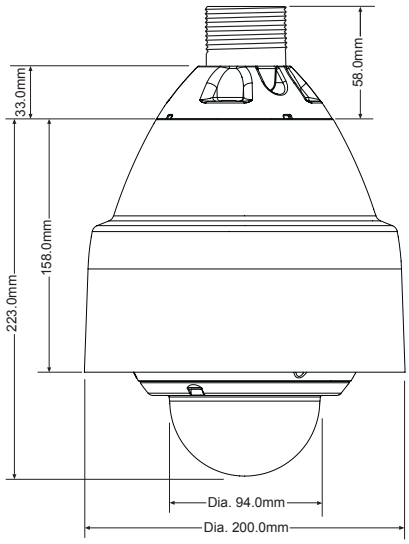
IndigoVision Fixed Dome Camera Mount Matrix Appendix - Page 1

Mount Name	Camera Range	Dimensional Drawing	Product Codes
In-Ceiling Mount	9000 Range		9000 Range Int - 110169 V.R - 110169
In-Ceiling Mount	11000 Range		11000 Range Int - 110069 V.R - 110069
In-Ceiling Mount	BX Range		BX Range Int - 110269 V.R - 110269

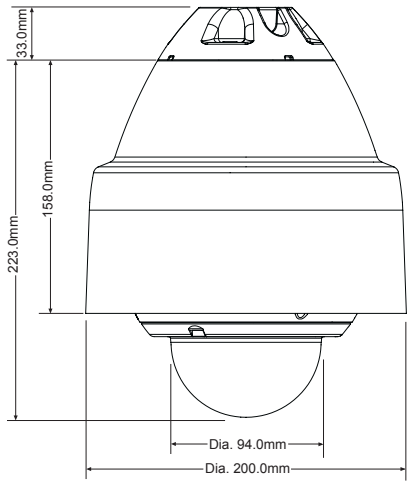
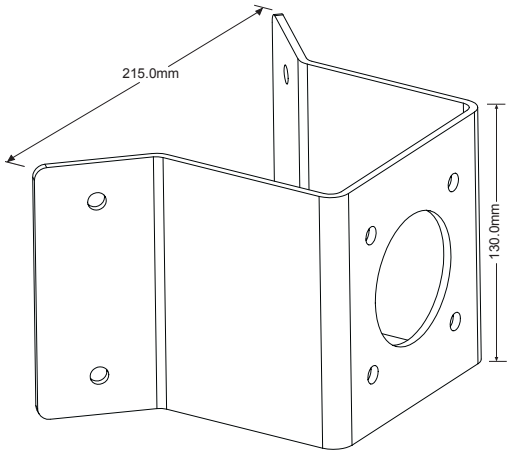
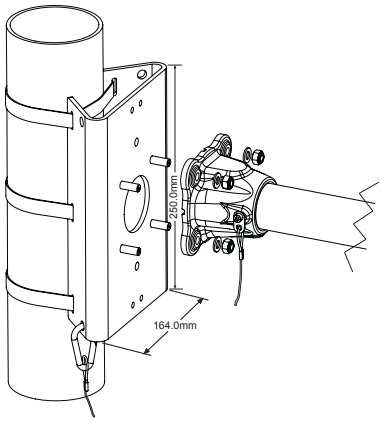
IndigoVision Fixed Dome Camera Mount Matrix Appendix - Page 2

Mount Name	Camera Range	Dimensional Drawing	Product Codes
Dome Hood	11000 Range		11000 Range V.R - 110034
Bracket Wall Mount	All Ranges (9000/11000/BX)		9000 Range V.R - 110026 11000 Range V.R - 110160 BX Range Int - 110160 V.R - 110160
Pendant Wall Mount	9000 and 11000 Ranges		9000 Range V.R - 110020 11000 Range V.R - 110020

IndigoVision Fixed Dome Camera Mount Matrix Appendix - Page 3

Mount Name	Camera Range	Dimensional Drawing	Product Codes
Pendant Swan-Neck Mount	9000 and 11000 Ranges		9000 Range V.R - 110022 11000 Range V.R - 110022
Pendant Vertical Pole Mount	9000 and 11000 Ranges		9000 Range V.R - 110024 11000 Range V.R - 110024
1.5" NPT Pendant Mount (Male)	9000 and 11000 Ranges		9000 Range V.R - 110027 11000 Range V.R - 110027

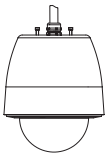
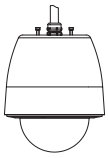
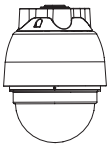
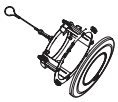
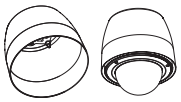
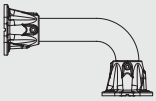
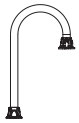
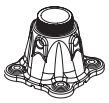
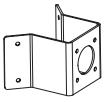
IndigoVision Fixed Dome Camera Mount Matrix Appendix - Page 4

Mount Name	Camera Range	Dimensional Drawing	Product Codes
1.5" NPT Pendant Mount (Female)	9000 and 11000 Ranges		9000 Range V.R - 110028 11000 Range V.R - 110028
Corner Mount Adaptor	9000 and 11000 Ranges		9000 Range V.R - 110082 11000 Range V.R - 110082
Pole Mount Adaptor	9000 and 11000 Ranges		9000 Range V.R - 110096 11000 Range V.R - 110096
Cable	9000 and 11000 Ranges		11000 Range V.R - 110161 BX Range V.R - 110267

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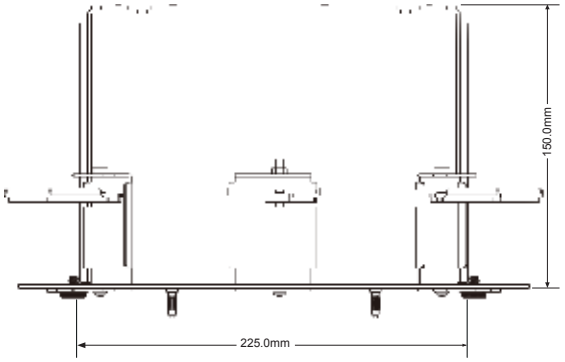
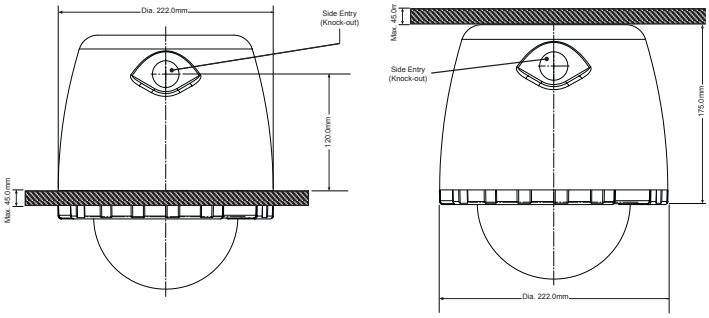
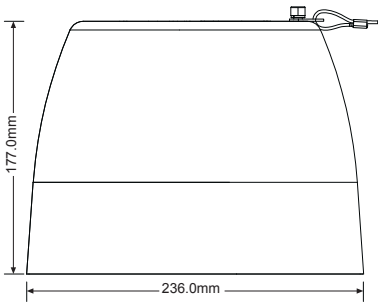
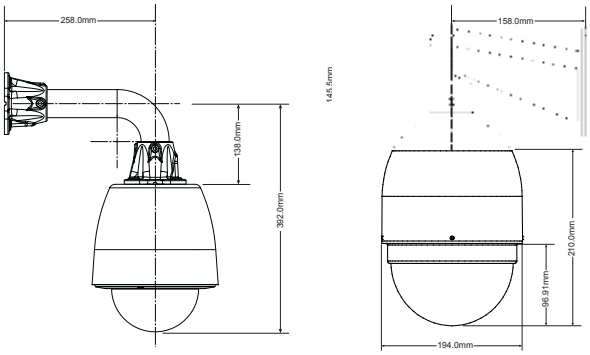
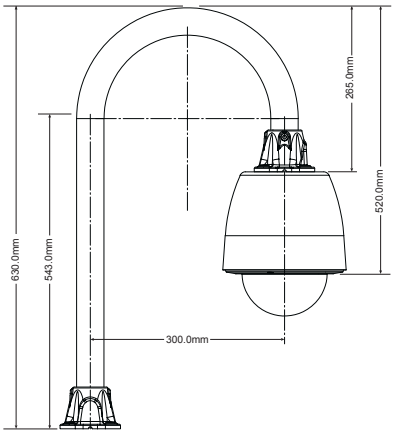
IndigoVision
Complete IP Video Security Solutions

PTZ Dome Camera Module Matrix

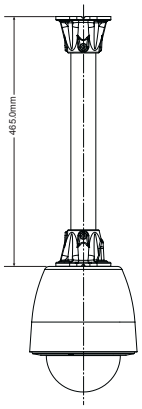
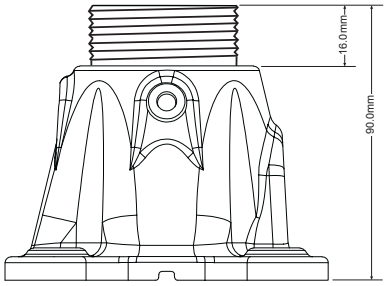
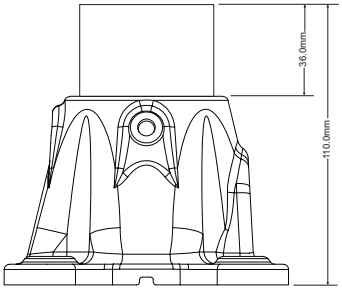
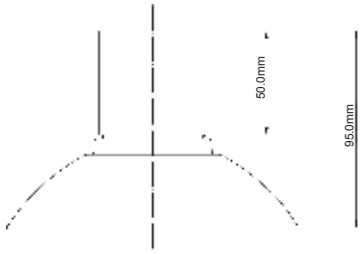
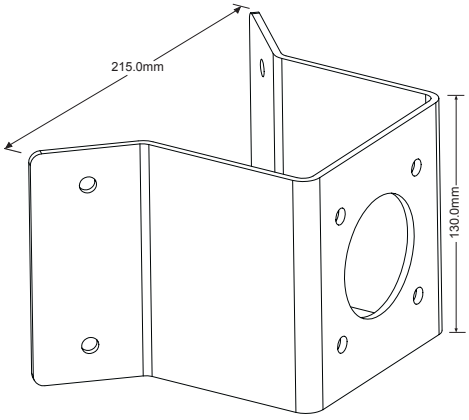
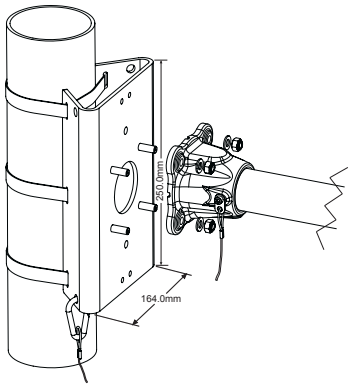
		9000 Range SD PTZ Dome		11000 Range HD PTZ Dome		BX Range HD PTZ Dome (BX500)	
							
Mount		**Internal**	**External**	**Internal**	**External**	**Internal**	**External**
In-Ceiling Mount		-	-	-	-	110265	-
In-Ceiling PTZ Plenum/ Surface Mount		110099	-	110099	-	-	-
Pendant PTZ Sun Shroud		-	110065+	-	110065+	-	-
Pendant Wall Mount		-	110084	-	110084	110264	110084
Pendant Swan-Neck Mount		-	110085	-	110085	-	110085
Pendant Vertical Pole Mount		-	110086	-	110086	-	110086
1.5” NPT Adaptor (Male)		-	110087	-	110087	-	110087
1.5” NPT Adaptor (Female)		-	110088	-	110088	110268	110088
Corner Mount Adaptor		-	110082	-	110082	-	110082
Pole Mount Adaptor*		-	110096	-	110096	-	110096

* Adaptors are compatible with the Pendant Wall Mount.
+ PTZ Sun Shroud fitted as standard on Arctic form factor.

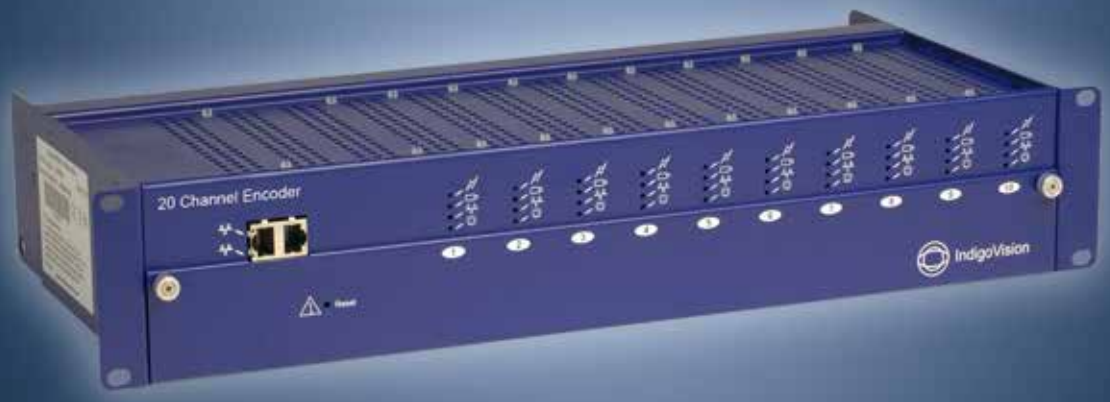
IndigoVision PTZ Dome Camera Mount Matrix Appendix - Page 1

Mount Name	Camera Range	Dimensional Drawing	Product Codes
In-Ceiling Mount	BX Range		BX Range Int - 110265
In-Ceiling PTZ Plenum/ Surface Mount	9000 and 11000 Ranges		9000 Range Int - 110099 11000 Range Int - 110099
Pendant PTZ Sun Shroud	9000 and 11000 Ranges		9000 Range Int - 110065 11000 Range Int - 110065
Pendant Wall Mount	All Ranges (9000/11000/BX)	 110084 110264	9000 Range Ext - 110084 11000 Range Ext - 110084 BX Range Int - 110264 Ext - 110084
Pendant Swan-Neck Mount	All Ranges (9000/11000/BX)		9000 Range Ext - 110085 11000 Range Ext - 110085 BX Range Ext - 110085

IndigoVision PTZ Dome Camera Mount Matrix Appendix - Page 2

Mount Name	Camera Range	Dimensional Drawing	Product Codes
Pendant Vertical Pole Mount	All Ranges (9000/11000/BX)		9000 Range Ext - 110086 11000 Range Ext - 110086 BX Range Ext - 110086
1.5" NPT Adaptor (Male)	All Ranges (9000/11000/BX)		9000 Range Ext - 110087 11000 Range Ext - 110087 BX Range Ext - 110087
1.5" NPT Adaptor (Female)	All Ranges (9000/11000/BX)	 110088  110268	9000 Range Ext - 110088 11000 Range Ext - 110088 BX Range Int - 110268 Ext - 110088
Corner Mount Adaptor	All Ranges (9000/11000/BX)		9000 Range Ext - 110082 11000 Range Ext - 110082 BX Range Ext - 110082
Pole Mount Adaptor	All Ranges (9000/11000/BX)		9000 Range Ext - 110096 11000 Range Ext - 110096 BX Range Ext - 110096

IndigoVision
Complete IP Video Security Solutions



20 Channel Encoder

A family of Video Encoders and Decoders incorporating IndigoVision's class-leading compression technology

Part of IndigoVision's 9000 range, the 20 Channel Encoder delivers powerful and cost-effective migration from analogue to IndigoVision's renowned world class IP solution. With highly optimised H.264 compression and ACF+ technology, storage costs are reduced by up to 95% and video quality is greatly improved.

Completely integrated with IndigoVision's Control Center software and Network Video Recorders (NVRs), HD and Megapixel cameras can be added easily, giving the same world class IP video solution that's trusted by some of the most demanding security installations in the world.

Key Features

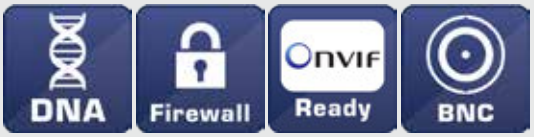
COMPRESSION



INTELLIGENCE



OTHER



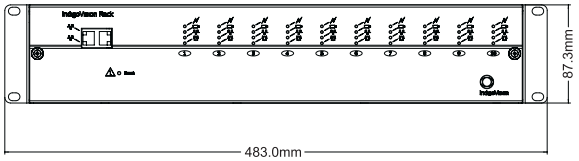
Product Codes

20 Channel Encoder	9000E
Standard with Audio	769916
Chassis with Network Card only	980088
Dual Channel Encoder Card with Audio	769106

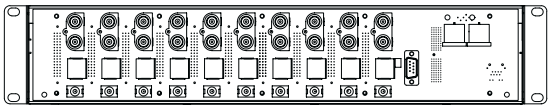
The 9000E product allows full frame rate video, at full 4SIF resolution.

For more information:

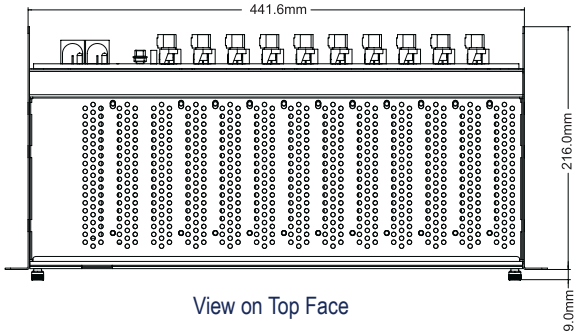
Dimensions



View on Front Face



View on Back Face



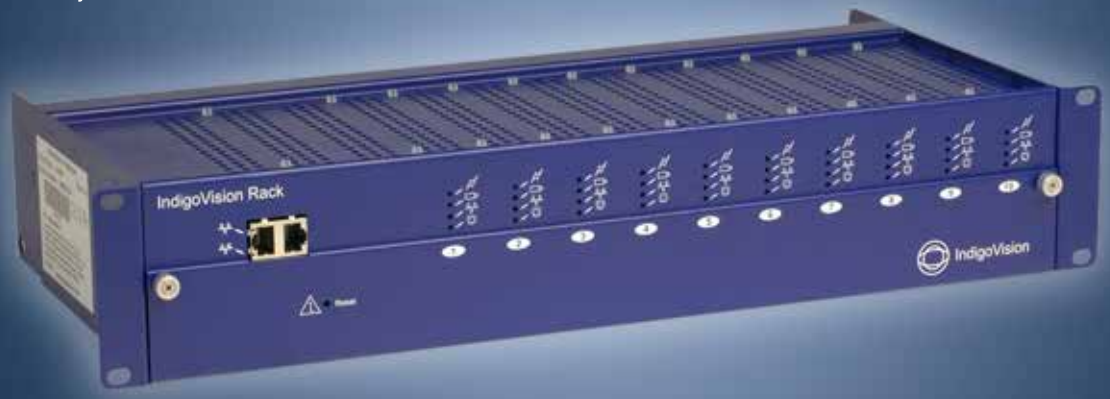
View on Top Face

Specification

Dual Channel Encoder Card Specification	
Video Resolution	4SIF: 704 x 576 pixels 2SIF: 704 x 288 pixels SIF: 352 x 288 pixels
Video Compression	Full frame rate, full colour: H.264 (ISO 14496-10); 25fps guaranteed
Video Bit Rate	User-configurable bit rates from 32Kbps up to 6Mbps per video channel
Video Multi-Streaming	Up to 16Mbps total video output per channel; Up to 2Mbps multicast video output per channel; Up to sixteen 1Mbps unicast connections per channel
Video Multi-Encoder	Up to two simultaneous resolutions with guaranteed 25fps frame rate including: 4SIF, 2SIF, SIF
Video Analytics*	Standard: ACF, ACF+, Motion Detection, Hooded. Advanced: Dual Tripwire, Congestion, Counterflow, Museum
Audio Compression	AAC-LC (ISO 144496-3)
Audio Bit Rate	User-configurable bit rates from 32Kbps to 160Kbps per channel
Audio Protocol	RTP (RFC 3640)
Audio Dual Encoder	Encoder A: 1 Stream Configuration plus Encoder B: 1 Stream Configuration
Audio Resolution	Full Duplex 16 Bit, 16kHz sample rate Mono Input, Mono Output
Audio Input	2 Line in / Mic in with terminal block connector. Nominal voltage: 1V p-p, Mic 30mV p-p. Mic type: dynamic or electret
Audio Output	2 Line out with terminal block connector. 1V p-p, Minimum load impedance: 16 Ohms
Binary Input/Output	2 opto-isolated input, 2 solid state relay output per card
Data Input/Output	1 Data port: RS422/RS485 up to 115.2 Kbps; 1 Data/Console port: RS232 up to 115.2 Kbps
Network Security	Embedded Linux firewall
Time	Embedded real-time clock, NTP client with battery backup
ONVIF**	ONVIF Ready
20 Channel Chassis Specification	
Video Multi-Streaming	Up to 320Mbps total video output including up to 40Mbps multicast video output
Video Input	20 PAL video; 75 Ohms 1V p-p, standard BNC connector
Audio Input	20 Line in / Mic in with terminal block connector
Audio Output	20 Line out with terminal block connector
Binary Input/Output	20 inputs; 20 outputs (2 input, 2 output per card)
Data Input/Output	10 Data port: RS422/RS485 up to 115.2 Kbps; 10 Data/Console port: RS232 up to 115.2 Kbps
Network Interface	IEEE802.3 and IETF standards: 10/100/1000 Base-T Ethernet, TCP, UDP, RTP, ICMP, IGMP, SNMP, HTTP, HTTPS, SSH, TELNET
Dimensions/Weight	218mm (d)x 483mm (w) x 88mm (h) and 3.6Kg
Regulatory	EN 55022 (2010) – Class A, EN 55024 (1998) +A1:2000 +A2:2003, CFR47(2011) Part 15 subpart B - Class A (US federal code of regulations), EN 60068-2-1 & 2 Low & High temp, EN 60068-2-6 & 64 Sinusoid & Random vibration, EN 60068-2-29 Bump, EN 60068-2-30 Humidity up to 95% Non Condensing
Electrical	3.5V DC @ 11A; 30W typical, 35W max
Operating Temperature	0°C to 50°C
Power Supplies	Power supply included, redundant power supply ordered separately (Product code: 110003)
Redundancy	Dual redundant power connectors, Dual redundant ethernet switch ports
Physical Form Factor	Rack mount chassis with 10 dual channel Encoder cards

* Advanced Video Analytics require a licence.
** Firmware upgrade is required for ONVIF Conformance.

IndigoVision
Complete IP Video Security Solutions



10 Channel Encoder/Decoder

A family of Video Encoders and Decoders incorporating IndigoVision's class-leading compression technology

Part of IndigoVision's 9000 range, the Enhanced 10 Channel Encoder/Decoder delivers powerful and cost-effective migration from analogue to IndigoVision's renowned world class IP solution. With highly optimised H.264 compression and ACF+ technology, storage costs are reduced by up to 95% and video quality is greatly improved.

Completely integrated with IndigoVision's Control Center software and Network Video Recorders (NVRs), HD and Megapixel cameras can be added easily, giving the same world class IP video solution that's trusted by some of the most demanding security installations in the world.

Key Features

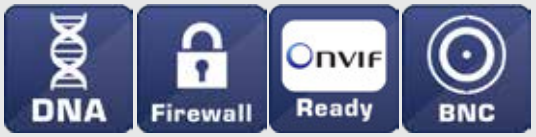
COMPRESSION



INTELLIGENCE



OTHER



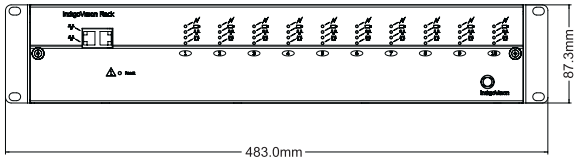
Product Codes

10 Channel Encoder/Decoder	9000E
Standard	769912
Standard with Audio	769911
Additional Rack Card	769102
Additional Rack Card with Audio	769101
10 Channel Dual Decoder	
Standard	729917
Standard with Audio	729907
Additional Rack Card	729117
Additional Rack Card with Audio	729107

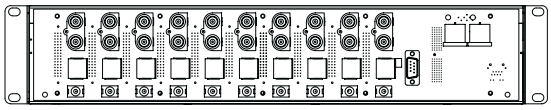
The 9000E product allows full frame rate video, at full 4SIF resolution. For a 10 Channel Encoder/Decoder Chassis with Network Card only please use order code: 980096.

For more information:

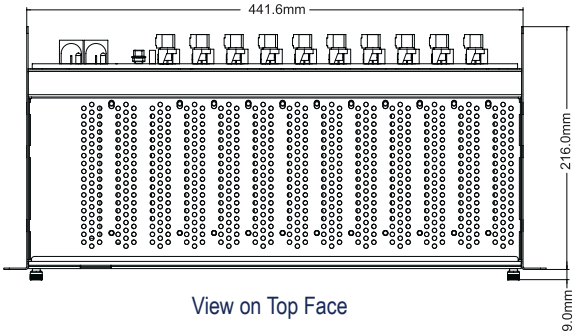
Dimensions



View on Front Face



View on Back Face



View on Top Face

Specification

Single Channel Encoder/Decoder Card Specification	
Video Resolution	4SIF: 704 x 576 pixels 2SIF: 704 x 288 pixels SIF: 352 x 288 pixels
Video Compression	Full frame rate, full colour: H.264 (ISO14496-10); 25fps guaranteed
Video Bit Rate	User-configurable bit rates from 32Kbps up to 6Mbps per video channel
Video Multi-Streaming	Up to 32Mbps total video output per channel; Up to 4Mbps multicast video output per channel; Up to sixteen 1Mbps unicast connections per channel
Video Multi-Encoder	Up to two simultaneous resolutions with guaranteed 25fps frame rate including: 4SIF, 2SIF, SIF
Video Analytics	Standard: ACF, ACF+, Motion Detection, Hooded. Advanced: Dual Tripwire, Congestion, Counterflow, Museum
Video Decode^	Decode IndigoVision MPEG-4 and H.264 video streams
Audio Compression*	AAC-LC (ISO 144496-3)
Audio Bit Rate	User-configurable bit rates from 32Kbps to 160Kbps per channel
Audio Protocol	RTP (RFC 3640)
Audio Dual Encoder	Encoder A: 1 Stream Configuration plus Encoder B: 1 Stream Configuration
Audio Resolution	Full Duplex 16 Bit, 16kHz sample rate Mono/Stereo Input, Mono Output
Audio Input*	Line in 3.5mm jack. Nominal voltage: 1V p-p, 16bit, 16kHz sampling; Mic 30mV p-p. Mic types: support for condensor and dynamic
Audio Output*	Line out 3.5mm jack. 1V p-p, Minimum load impedance: 16 Ohms
Binary Input/Output	1 opto-isolated input, 1 solid state relay output per card
Data Input/Output	1 Data ports: RS232/RS422/RS485 up to 115.2 Kbps; 1 Console port: RS232 up to 115.2 Kbps
Network Security	Embedded Linux firewall. Salted passwords, with MD5 encryption
Time	Embedded real-time clock, NTP client with battery backup
ONVIF**	ONVIF Ready
10 Channel Chassis Specification	
Video Multi-Streaming	Up to 320Mbps total video output including up to 40Mbps multicast video output
Video Input	10 PAL video; 75 Ohms 1V p-p, standard BNC connector
Video Output	PAL composite video, 75 Ohms; 1V p-p, standard BNC connector. Software decode for display to PCs
Audio Input*	10 Line in / Mic in with terminal block connector
Audio Output*	10 Line out with terminal block connector
Binary Input/Output	10 inputs; 10 outputs (1 input, 1 output per card)
Data Input/Output	10 Data ports: RS232/RS422/RS485 up to 115.2 Kbps; 1 Console port: RS232 up to 115.2 Kbps
Network Interface	IEEE802.3 and IETF standards: 10/100/1000 Base-Tx Ethernet, TCP, UDP, RTP, ICMP, IGMP, SNMP, HTTP, HTTPS, SSH, TELNET
Dimensions/Weight	218mm (d) x 483mm (w) x 88mm (h) and 3.6Kg
Regulatory	EN 55022 (1994) ITE - Class A, EN 61000-3-2 (1995) - Class A , EN 55024 (1998) ITE immunity standard, EN 61000 3-3 (1995) voltage fluctuation, CFR47 (1995) Part 15 subpart B -Class A
Electrical	3.5V DC; 28W typical, 32W max
Operating Temperature	0°C to 50°C
Power Supplies	Power supply included, redundant power supply ordered separately (Product code: 110003)
Redundancy	Dual redundant power connectors, Dual redundant switch ports
Physical Form Factor	Rack mount chassis with 10 single channel Encoder/Decoder cards

*Audio capability is an order option on all Encoder/Decoder modules.
** Firmware upgrade is required for ONVIF Conformance.
^ Specification for IndigoVision Decoder Card Only.

IndigoVision
Complete IP Video Security Solutions



Four Channel Encoder/Decoder

A family of Video Encoders and Decoders incorporating IndigoVision's class-leading compression technology

Part of IndigoVision's 9000 range, the Enhanced Four Channel Encoder/Decoder delivers powerful and cost-effective migration from analogue to IndigoVision's renowned world class IP solution. With highly optimised H.264 compression and ACF+ technology, storage costs are reduced by up to 95% and video quality is greatly improved.

Completely integrated with IndigoVision's Control Center software and Network Video Recorders (NVRs), HD and Megapixel cameras can be added easily, giving the same world class IP video solution that's trusted by some of the most demanding security installations in the world.

Key Features

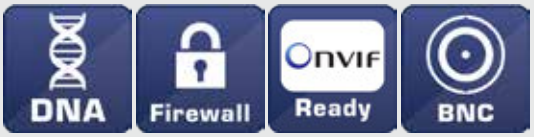
COMPRESSION



INTELLIGENCE



OTHER



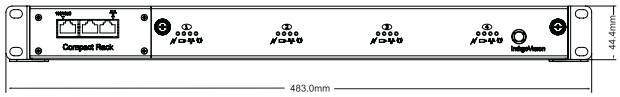
Product Codes

Four Channel Encoder/Decoder	9000E
Standard	769915
Standard with Audio	769914
Additional Rack Card	769102
Additional Rack Card with Audio	769101
Four Channel Decoder	
Standard	729947
Standard with Audio	722947
Additional Rack Card	729117
Additional Rack Card with Audio	729107

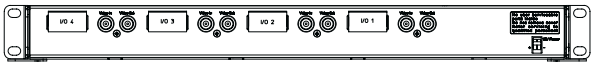
The 9000E product allows full frame rate video, at full 4SIF resolution. For a Four Channel Encoder/Decoder Chassis with Network Card only please use order code: 980193. For a Four Channel Encoder/Decoder Transport Mount Kit please use order code: 110108.

For more information:

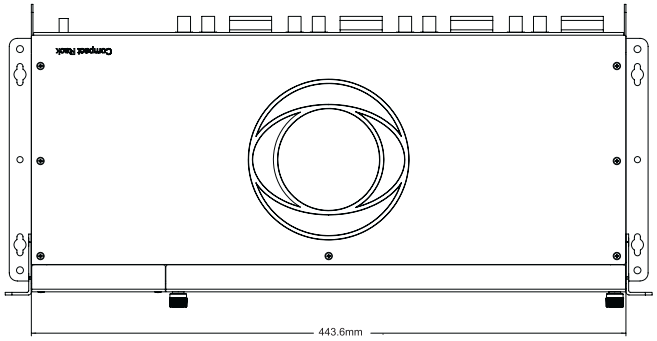
Dimensions



View on Front Face



View on Back Face



View on Top Face

Specification

Single Channel Encoder/Decoder Card Specification	
Video Resolution	4SIF: 704 x 576 pixels 2SIF: 704 x 288 pixels SIF: 352 x 288 pixels
Video Compression	Full frame rate, full colour: H.264 (ISO14496-10); 25fps guaranteed
Video Bit Rate	User-configurable bit rates from 32Kbps up to 6Mbps per video channel
Video Multi-Streaming	Up to 32Mbps total video output per channel; Up to 4Mbps multicast video output per channel; Up to sixteen 1Mbps unicast connections per channel
Video Multi-Encoder	Up to two simultaneous resolutions with guaranteed 25fps frame rate including: 4SIF, 2SIF, SIF
Video Analytics	Standard: ACF, ACF+, Motion Detection, Hooded. Advanced: Dual Tripwire, Congestion, Counterflow, Museum
Video Decode^	Decode IndigoVision MPEG-4 and H.264 video streams
Audio Compression*	AAC-LC (ISO 144496-3)
Audio Bit Rate	User-configurable bit rates from 32Kbps to 160Kbps per channel
Audio Protocol	RTP (RFC 3640)
Audio Dual Encoder	Encoder A: 1 Stream Configuration plus Encoder B: 1 Stream Configuration
Audio Resolution	Full Duplex 16 Bit, 16kHz sample rate Mono/Stereo Input, Mono Output
Audio Input*	Line in 3.5mm jack. Nominal voltage: 1V p-p, 16bit, 16kHz sampling; Mic 30mV p-p. Mic types: support for condensor and dynamic
Audio Output*	Line out 3.5mm jack. 1V p-p, Minimum load impedance: 16 Ohms
Binary Input/Output	1 opto-isolated input, 1 solid state relay output per card
Data Input/Output	1 Data port: RS232/RS422/RS485 up to 115.2 Kbps; 1 Console port: RS232 up to 115.2 Kbps
Network Security	Embedded Linux firewall. Salted passwords, with MD5 encryption
Time	Embedded real-time clock, NTP client with battery backup
ONVIF**	ONVIF Ready
Four Channel Chassis Specification	
Video Multi-Streaming	Up to 320Mbps total video output including up to 40Mbps multicast video output
Video Input	4 PAL video; 75 Ohms 1V p-p, standard BNC connector
Video Output	PAL composite video, 75 Ohms; 1V p-p, standard BNC connector. Software decode for display to PCs
Audio Input*	4 Line in / Mic in with terminal block connector
Audio Output*	4 Line out with terminal block connector
Binary Input/Output	4 inputs; 4 outputs (1 input, 1 output per card)
Data Input/Output	4 Data ports: RS232/RS422/RS485 up to 115.2 Kbps; 4 Console ports: RS232 up to 115.2 Kbps
Network Interface	IEEE802.3 and IETF standards: 10/100/1000 Base-Tx Ethernet, TCP, UDP, RTP, ICMP, IGMP, SNMP, HTTP, HTTPS, SSH, TELNET
Dimensions/Weight	226mm (d) x 445mm (w) x 44mm (h) and 3.4Kg
Regulatory	EN 55022 (1994) ITE - Class A, EN 61000-3-2 (1995) - Class A, EN 55024 (1998) ITE immunity standard, EN 61000 3-3 (1995) voltage fluctuation, CFR47 (1995) Part 15 subpart B -Class A, Railway Standards: EN 50121-3-2: 2006, EN 50121-4: 2006, EN50155: 2007
Electrical	12V DC @ 3A; 16W typical, 18W max
Operating Temperature	0°C to 55°C
Power Supplies	Power supply included
Redundancy	Dual redundant switch ports plus third switch port for local NVR
Physical Form Factor	Rack mount chassis with four single channel Encoder/Decoder cards

* Audio capability is an order option on all Encoder/Decoder modules.
** Firmware upgrade is required for ONVIF Conformance.
^ Specification for IndigoVision Decoder Card Only.

IndigoVision
Complete IP Video Security Solutions



Dual Channel Encoder

A family of Video Encoders and Decoders incorporating IndigoVision's class-leading compression technology

Part of IndigoVision's 9000 range, the Dual Channel Encoder delivers powerful and cost-effective migration from analogue to IndigoVision's renowned world class IP solution. With highly optimised H.264 compression and ACF+ technology, storage costs are reduced by up to 95% and video quality is greatly improved.

Completely integrated with IndigoVision's Control Center software and Network Video Recorders (NVRs), HD and Megapixel cameras can be added easily, giving the same world class IP video solution that's trusted by some of the most demanding security installations in the world.

Key Features

COMPRESSION



INTELLIGENCE



OTHER



PHYSICAL



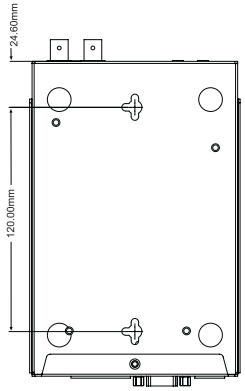
Product Codes

Dual Channel Encoder	9000E
Standard with Audio	769120
Extended Temperature with Audio (0°C - 55°C)	769122

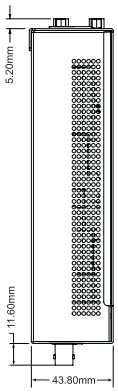
The 9000E product allows full frame rate video, at full 4SIF resolution.

For more information:

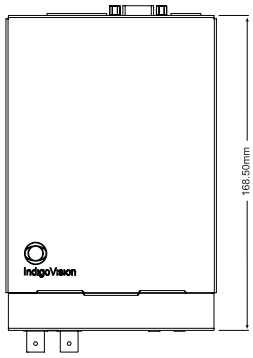
Dimensions



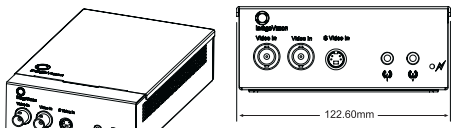
View on Bottom Face



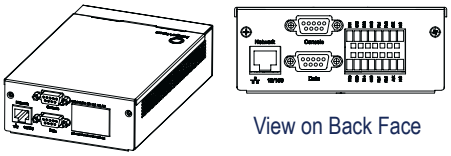
View on Side Face



View on Top Face



View on Front Face



View on Back Face

Specification

General Specification	
Video Resolution	4SIF: 704 x 576 pixels 2SIF: 704 x 288 pixels SIF: 352 x 288 pixels
Video Compression	Full frame rate, full colour: H.264 (ISO 14496-10); 25fps guaranteed
Video Bit Rate	User-configurable bit rates from 32Kbps up to 6Mbps per video channel
Video Multi-Streaming	Up to 16Mbps total video output per channel; Up to 2Mbps multicast video output per channel; Up to sixteen 1Mbps unicast connections per channel
Video Multi-Encoder	Up to two simultaneous resolutions with guaranteed 25fps frame rate including: 4SIF, 2SIF, SIF
Video Analytics*	Standard: ACF, ACF+, Motion Detection, Hooded (configurable per channel). Advanced: Dual Tripwire, Counterflow, Congestion, Museum (configurable per channel)
Video Input	2 PAL composite video; 75 Ohms 1V p-p, standard BNC connectors; 1 S-Video connector
Audio Compression	AAC-LC (ISO 144496-3)
Audio Bit Rate	User-configurable bit rates from 32Kbps to 160Kbps per channel
Audio Protocol	RTP (RFC 3640)
Audio Dual Encoder	Encoder A: 1 Stream Configuration plus Encoder B: 1 Stream Configuration
Audio Resolution	Full Duplex 16 Bit, 16kHz sample rate Mono Input, Mono Output
Audio Input	2 Line in / Mic in with terminal block connector. Nominal voltage: 1V p-p, Mic 30mV p-p. Mic type: dynamic or electret
Audio Output	2 Line out with terminal block connector. 1V p-p, Minimum load impedance: 32 Ohms
Binary Input/Output	4 Pull up inputs for non powered contacts; 2 solid state relay outputs
Data Input/Output	1 Data port: RS422/RS485 up to 115.2 Kbps; 1 Data/Console port: RS232 up to 115.2 Kbps
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RTP, ICMP, IGMP, SNMP, HTTP, HTTPS, SSH, TELNET
Network Security	Embedded Linux firewall. Salted passwords, with MD5 encryption
Time	Embedded real-time clock, NTP client with battery backup
Dimensions/Weight	168.5mm (d) x 122.6mm (w) x 43.8mm (h) and 0.6Kg (excluding power supply)
Regulatory	EN 55022 (2010) ITE emission standard – Class A, EN 55024 (1998) +A1:2000 +A2:2003, ITE immunity standard, CFR47(2008) Part 15 subpart B - Class A (US federal code of regulations), EN 60068-2-1 & 2 Low & High temp, EN 60068-2-6 & 64 Sinusoid & Random vibration, EN 60068-2-29 Bump, EN 60068-2-30 Humidity up to 95%, Non Condensing
Power Supplies	Power supplies are separately orderable (Product code: 110004). Extended Temp. Option B comes with an internal heater and 24V AC/DC heater power supply included
ONVIF*	ONVIF Ready

	Standard	Extended Temperature B
Electrical	PoE (802.3af Class 0) or 24V AC/DC; 7W max	PoE (802.3af Class 0) Encoder. 24V DC/DC Encoder and Heater. 8W max (Encoder); 30W max (Heater)
Operating Temperature	0°C to 45°C	-30°C to 55°C

* Firmware upgrade is required for ONVIF Conformance.

IndigoVision
Complete IP Video Security Solutions



Single Channel Encoder/Decoder

A family of Video Encoders and Decoders incorporating IndigoVision's class-leading compression technology

Part of IndigoVision's 9000 range, the Single Channel Encoder/Decoder delivers powerful and cost-effective migration from analogue to IndigoVision's renowned world class IP solution. With highly optimised H.264 compression and ACF+ technology, storage costs are reduced by up to 95% and video quality is greatly improved.

Completely integrated with IndigoVision's Control Center software and Network Video Recorders (NVRs), HD and Megapixel cameras can be added easily, giving the same world class IP video solution that's trusted by some of the most demanding security installations in the world.

Key Features

COMPRESSION



INTELLIGENCE



OTHER



PHYSICAL



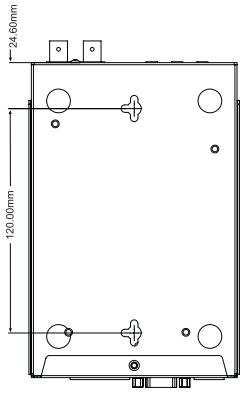
Product Codes

Single Channel Encoder	9000E
Standard	769116
Extended Temperature (0°C - 65°C)	769128
Extended Temperature (-30°C - 65°C)	769130
Single Channel Encoder/Decoder	**9000E**
Standard with Audio	769103
Extended Temperature with Audio (0°C - 65°C)	769126
Extended Temperature with Audio (-30°C - 65°C)	769129
Single Channel Decoder	
Standard with Audio	729103

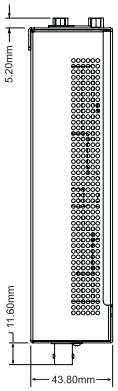
The 9000E product allows full frame rate video, at full 4SIF resolution. The 9000 Encoder/Decoder decodes IndigoVision H.264 and MPEG-4 video streams.

For more information:

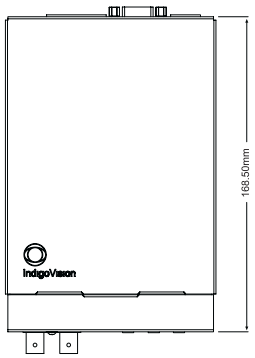
Dimensions



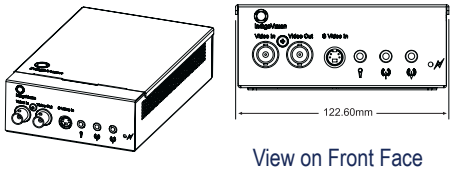
View on Bottom Face



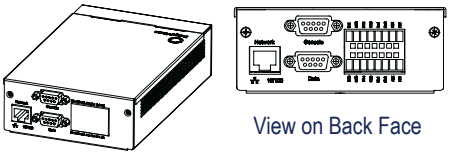
View on Side Face



View on Top Face



View on Front Face



View on Back Face

Specification

General Specification	
Video Resolution	4SIF: 704 x 576 pixels 2SIF: 704 x 288 pixels SIF: 352 x 288 pixels
Video Compression	Full frame rate, full colour: H.264 (ISO 14496-10); 25fps guaranteed
Video Bit Rate	User-configurable bit rates from 32Kbps up to 6Mbps
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to five 6Mbps unicast connections; Up to sixteen 1Mbps unicast connections
Video Multi-Encoder	Up to two simultaneous resolutions with guaranteed 25fps frame rate including: 4SIF, 2SIF, SIF
Video Analytics	Standard: ACF, Motion Detection, Hooded. Advanced: Dual Tripwire, Congestion, Counterflow, Museum
Video Input	1 PAL video; 75 Ohms 1V p-p, standard BNC connector; 1 S-Video connector
Video Output	PAL composite video, 75 Ohms; 1V p-p, standard BNC connector. Software decode for display to PCs
Video Decode	Decode IndigoVision MPEG-4 and H.264 video streams
Audio Compression*	AAC-LC (ISO 144496-3)
Audio Bit Rate	User-configurable bit rates from 32Kbps to 160Kbps per channel
Audio Protocol	RTP (RFC 3640)
Audio Dual Encoder	Encoder A: 1 Stream Configuration plus Encoder B: 1 Stream Configuration
Audio Resolution	Full Duplex 16 Bit, 16kHz sample rate Mono/Stereo Input, Mono Output
Audio Input*	Line in 3.5mm jack. Nominal voltage: 1V p-p, 16bit, 16kHz sampling; Mic 30mV p-p. Mic types: support for condensor and dynamic
Audio Output*	Line out 3.5mm jack. 1V p-p, Minimum load impedance: 32 Ohms
Binary Input/Output	4 opto-isolated inputs; 2 solid state relay outputs
Data Input/Output	1 Data port: RS232/RS422/RS485 up to 115.2 Kbps; 1 Data/Console port: RS232 up to 115.2 Kbps
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RTP, ICMP, IGMP, SNMP, HTTP
Network Security	Embedded Linux firewall. Salted passwords, with MD5 encryption
Time	Embedded real-time clock, NTP client with battery backup
Dimensions/Weight	168.5mm (d) x 122.6mm (w) x 43.8mm (h) and 0.6Kg (excluding power supply)
Regulatory	EN 55022 (1994) ITE - Class A, EN 61000-3-2 (1995) - Class A, EN 55024 (1998) ITE immunity standard, EN 61000 3-3 (1995) voltage fluctuation, CFR47 (1995) Part 15 subpart B - Class A
Power Supplies	Power supplies are separately orderable (Product code: 110004). Extended Temp. Option B comes with an internal heater and 24V AC/DC heater power supply included

	Standard	Extended Temperature A	Extended Temperature B
Electrical	PoE (802.3af Class 0) or 24V AC/DC; 7W max	PoE (802.3af Class 0) or 24V AC/DC; 8W max	PoE (802.3af Class 0) Encoder. 24V DC/DC Encoder and Heater. 8W max (Encoder); 30W max (Heater)
Operating Temperature	0°C to 50°C	0°C to 65°C	-30°C to 65°C

* Audio capability is an order option on all Encoder/Decoder modules.

IndigoVision
Complete IP Video Security Solutions



BX100 Four Channel Encoder

Cost-Effective Analogue to World Class IP Video Migration

Part of IndigoVision's professional BX range, the BX100 Four Channel Encoder delivers cost-effective migration from analogue to IndigoVision's renowned world class IP solution. The BX100's outstanding H.264 compression means 20% less bandwidth, reduced storage and better video quality than other mid-range encoders.

Completely integrated with IndigoVision's Control Center software and Network Video Recorders (NVRs), HD and Megapixel cameras can be added easily, giving the same world class IP video solution that's trusted by some of the most demanding security installations in the world.

Key Features

COMPRESSION

H.264 | UP TO 25fps | G.711

OTHER

DNA | PoE | ONVIF | BNC

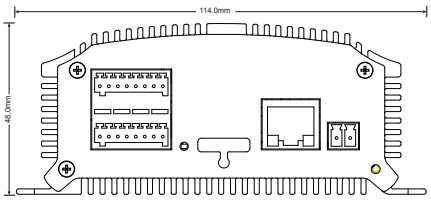
Product Codes

BX100 Four Channel Encoder	
Standard	511250
Standard with Management Software	561250

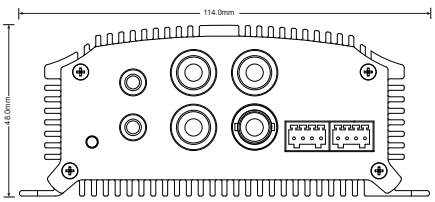
BX100 Four Channel Encoder Rack Mount Kit	
Rack Mount Kit	110103

For more information:

Dimensions - BX100 Four Channel Encoder

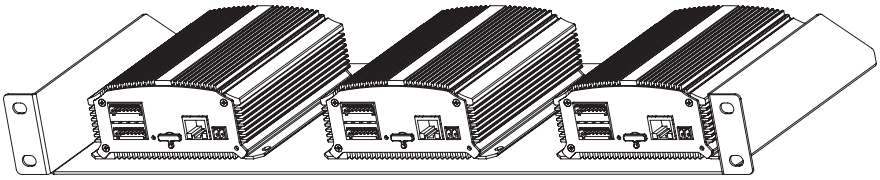


View on Front Face



View on Back Face

BX100 Four Channel Encoder Rack Mount Kit



Specification

General Specification	
Video Resolution	4SIF: 704 x 576 pixels 2SIF: 704 x 288 pixels SIF: 352 x 288 pixels
Video Compression	Full frame rate, full colour: H.264 (ISO 14496-10); up to 25fps
Video Bit Rate	User-configurable bit rates from 32Kbps up to 8Mbps per video channel
Video Multi-Streaming	Up to 16Mbps total video output; Unlimited multicast connections. Up to four 4Mbps unicast connections
Video Multi-Encoder	Up to two simultaneous streams per channel
Video Input	4 PAL video; 75 Ohms 1V p-p, standard BNC connectors
Audio Compression	G.711
Audio Bit Rate	64Kbps per channel
Audio Resolution	Full Duplex 8kHz sample rate. Mono Input, Mono Output
Audio Input	4 line in, Nominal voltage: 2V p-p 1kOhms
Audio Output	1 line out, 2V p-p, 1kOhms
Binary Input/Output	4 Pull up inputs for non powered contacts; 2 solid state opto-isolated relay outputs @500mA
Data Input/Output	1 Data port: half duplex RS485 up to 115.2 Kbps; 1 Console port; RS232 up to 115.2 Kbps
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RTP, RTSP, ICMP, IGMP, SNMP, HTTP, HTTPS, PPPoE, uPnP, DHCP
Time	Embedded real-time clock, NTP client
SD Storage*	microSDHC 32GB support (card not included)
Dimensions/Weight	128mm (d) x 114mm (w) x 48mm (h) and 0.8Kg (excluding power supply)
Regulatory	EN 55022 (2010) ITE emission standard – Class A, EN 55024 (1998) +A1:2000 +A2:2003 ITE immunity standard, CFR47(2008) Part 15 subpart B -Class A (US federal code of regulations), EN 60068-2-1 & 2 Low & High temp, EN 60068-2-6 & 64 Sinusoid & Random vibration, EN 60068-2-29 Bump, EN 60068-2-30 Humidity up to 95% Non Condensing
Electrical	PoE (802.3af Class 0) or 12V DC; 6W max
Operating Temperature	-10°C to 50°C
Power Supplies	Power supplies not included
Mounting Options	2U high rack mount kit available
IndigoVision Software Requirements	Control Center v11.0 or later
ONVIF	Profile S

* SDCard Storage independent of IndigoVision's Network Video Recorders.

Record

Reliable. Robust. Resilient.



Recorded evidence shouldn't just be usable. It should be exceptional.

IndigoVision's Network Video Recorders (NVRs) provide powerful, fully integrated recording and playback of video. By using IndigoVision's unique Distributed Network Architecture there is no single point of failure in your system. With added storage, network and power redundancy, IndigoVision's NVRs give you that extra peace of mind knowing that your CCTV system will be recording 24/7.

Available in rack mounted, compact, Windows or Linux storage options - when coupled with IndigoVision's IP capture hardware, IndigoVision's NVRs deliver unbelievable evidence at a diminutive cost.

	Storage Capacity		
Storage Options	Compact NVR-AS 3000 (up to 20 streams)	NVR-AS 3000 (up to 64 streams)	NVR-AS 4000 (up to 200 streams)
RAID 0	1TB, 2TB, 3TB	4TB, 8TB, 12TB	n/a
RAID 1	n/a	2TB, 4TB, 6TB	n/a
RAID 5	n/a	3TB, 6TB, 9TB	9TB, 12TB
RAID 6	n/a	n/a	24TB, 40TB

Record Index

Network Video Recorder (NVR-AS 4000) 70

- 1U or 2U Rack Mountable
- Record up to 200 Cameras per NVR
- 500Mbps (2U) and 128Mbps (1U) throughput
- Up to 40TB storage
- RAID5 (1U) or RAID6 (2U)
- Redundant Power (optional) and Networking

Network Video Recorder (NVR-AS 3000) 72

- 2U Rack Mountable
- Record up to 64 cameras per NVR
- Up to 64Mbps throughput
- Up to 12TB storage
- RAID0, RAID1, RAID5 options
- Redundant Power and Networking

Compact Network Video Recorder 74

- Small Footprint (Optional 2U Rack Mount)
- Record up to 20 cameras per NVR
- 40Mbps throughput
- Up to 3TB storage
- Single Removable HDD
- Redundant Networking

Windows Network Video Recorder 76

- Windows Platform Software
- Record up to 200 cameras per NVR or 20 streams per NVR
- Supports internal disk, internal RAID array, SCSI RAID array, iSCSI and Fibre Channel SAN and NAS

IndigoVision
Complete IP Video Security Solutions



Network Video Recorder

Enterprise Recording. Intelligently Designed.

With double the performance of the nearest alternative, the IndigoVision NVR-AS 4000 can record up to 200 cameras, has data throughput of 500 Mbps and up to 30TB usable storage. Guaranteed tamper free evidence, automatic failover and integrated backup the NVR-AS 4000 can also integrate other security systems for complete alarm management and has recording support for multiple camera manufacturers.

Key Features

COMPRESSION





OTHER



PHYSICAL



STORAGE



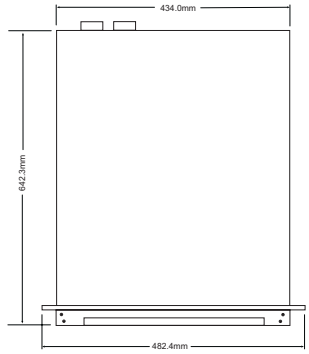
Product Codes

100 Channel NVR-AS 4000	Inc. Hardware ProSupport	Exc. Hardware ProSupport
NVR-AS 4000 RA9TB Windows	980466	980461
NVR-AS 4000 RA12TB Windows	980467	980462
200 Channel NVR-AS 4000	**Inc. Hardware ProSupport**	**Exc. Hardware ProSupport**
NVR-AS 4000 RA24TB Windows	980466	980461
NVR-AS 4000 RA40TB Windows	980467	980462

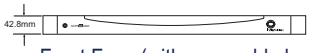
Recording Licences

Number of Channels	1 Channel	Failover Channel
Recording for the IndigoVision BX/Ultra camera range & third party ONVIF devices	314001	314071
Recording for third party cameras via Camera Gateway™	311120	311121

Dimensions - 1U Chassis

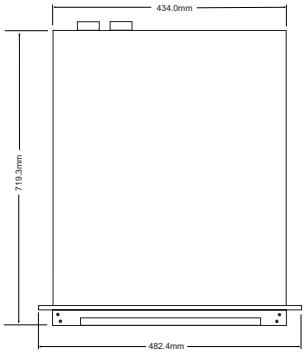


View on Top Face

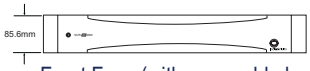


1U View on Front Face (with removable lockable fascia)

Dimensions - 2U Chassis



View on Top Face



2U View on Front Face (with removable lockable fascia)

Specification

	1U Rack Mounted Chassis		2U Rack Mounted Chassis	
Form Factor	RA9TB	RA12TB	RA24TB	RA40TB
Disk Space (GB)	9000	12000	24000	40000
Recording Hard Drive Bays	4 (Hot-swappable)		12 (Hot-swappable)	
Operating System Hard Drive Bays	On recording hard drives		2 separate drives configured as RAID 1	
RAID Controller	Hardware RAID Controller configured as RAID5		Hardware RAID Controller with Flash Backed Cache configured as RAID6	
Performance (Streams)^	100 (100) Recording plus simultaneous playback of 25 streams		200 (200) Recording plus simultaneous playback of 25 streams	
Performance (Throughput)^	128 Mbps in; 200 Mbps out; 328 Mbps total		500 Mbps in; 200 Mbps out; 700 Mbps total	
Network Interface	Dual Port Redundant 100/1000 BaseT RJ-45 Connections, TCP, UDP, ICMP, IGMP, SNMP, HTTP, NTP, Telnet, FTP		Quad Port Redundant 100/1000 BaseT RJ-45 Connections, TCP, UDP, ICMP, IGMP, SNMP, HTTP, NTP, Telnet, FTP	
Dimensions/Weight	607mm (d) x 444mm (w) x 42.8mm (h) and 19.3Kg		684mm (d) x 444mm (w) x 87.3mm (h) and 29.5Kg	
Electrical	350W, 100-240VAC, 50/60 Hz, Auto Switching, Single Hot Swappable PSU, Secondary Dual-Redundant Hot Swap PSU support		750W, 100-240VAC, 50/60 Hz, Auto Switching, Single Hot Swappable PSU, Secondary Dual-Redundant Hot Swap PSU support	
Processor	Intel Xeon ES		Intel Xeon ES	
Memory	2GB RAM (1 x 2GB)		2GB RAM (1 x 2GB)	
General Specification				
Operating System	Windows Server® 2008 R2 for Embedded Systems Essentials			
Video	Simultaneously record and playback full frame rate, full resolution video streams from any IndigoVision IP Camera or Encoder. Record and playback from other devices**			
Audio*	Recording and playback of AAC and G.711 audio			
Thumbnails*	Indexed recordings for rapid display of time-based, alarm-based or motion-based thumbnails			
Alarms	Recording and logging of alarms and events			
Bookmarks*	Recording and logging of bookmarks in association with recordings			
Analytics*	Recording and playback of motion analysis data from cameras			
Redundancy and Failover	Full DNA support, sophisticated failover and mirroring strategies amongst multiple NVRs for increased resilience and redundancy			
Automatic Storage Management	Policy based management options for automatic deletion or protection of old footage			
Digital Watermarking	Digital signing at point of recording and at export			
Recording Hard Drive	3.5in Near Line SATA			
Network Security	Enhanced 2008 Server Windows Firewall, Network Access Protection (NAP)			
Regulatory	EN 60950-1:2006 + A11:2009, IEC 60950-1:2005 Ed2, EN 62311:2008, EN 55022:2006 + A1:2007, CISPR 22:2005 + A1:2005, EN 61000-3-2:2006, EN 55024:1998 + A1:2001 + A2:2003, IEC 61000-3-2:2005 (Class D), EN 61000-3-3:1995 + A1:2001 + A2:2005, IEC 61000-3-3:1994 + A1:2001 + A2:2005, CISPR 24:1997 (modified)+A1:2001 + A2:2002			
Housing	Mild Steel Chassis and Fascia			
Operating Temperature	10°C to 35°C			
System Management	iDRAC7 Express			
Supplied Accessories	Rack Mount Kit (brackets, static rails and mounting hardware), removable lockable fascia, PDU power cord and USB restore media			
Onboard Diagnostics	Disk, Redundancy, Controllers, Enclosures, Fans, Power Supplies, Temperatures			

* Features may vary based on capabilities of camera model. ** ONVIF or supported via IndigoVision Camera Gateway™. ^ With or without Digital Watermarking enabled.

Accessories

Accessories	Product Code
NVR-AS 4000 100 Channel Redundant PSU	110014
NVR-AS 4000 200 Channel Redundant PSU	110015
NVR-AS 4000 3TB Hard Disk Caddy & Disk	110303
NVR-AS 4000 4TB Hard Disk Caddy & Disk	110304

For more information:

IndigoVision
Complete IP Video Security Solutions



Network Video Recorder

Powerful and integrated recording and playback system

With recording for up to 64 cameras and simultaneous playback of up to 20 cameras, the IndigoVision NVR-AS 3000 has extremely low power consumption and heat dissipation. The NVR-AS 3000 has up to 12TB storage from either integrated fixed disks or hot-swappable removable disks and has recording support for multiple camera manufacturers.

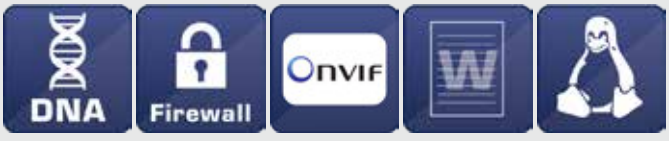
Key Features

COMPRESSION





OTHER



PHYSICAL



STORAGE



Product Codes

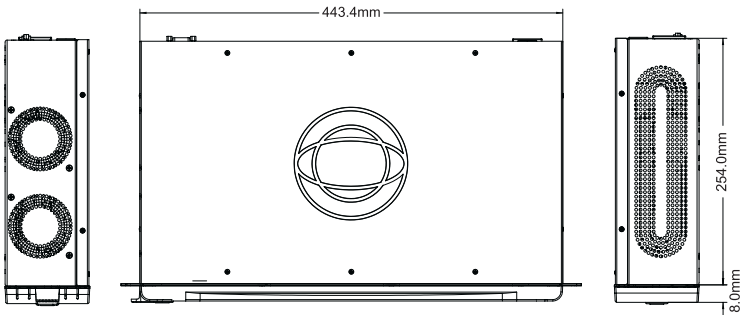
NVR-AS 3000			
RA3000 RAID5	980397	RA6000 RAID1	980389
RA6000 RAID5	980398	RA4000 RAID0	980377
RA9000 RAID5	980399	RA8000 RAID0	980378
RA2000 RAID1	980387	RA12000 RAID0	980379
RA4000 RAID1	980388		

Caddies including Disks	
1000GB	980010
2000GB	980020
3000GB	980030

Recording Licences

Number of Channels	1 Channel	Failover Channel
Recording for the IndigoVision BX/Ultra camera range & third party ONVIF devices	314001	314071
Recording for third party cameras via Camera Gateway™	311120	311121

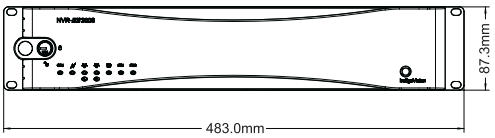
Dimensions



View on Left Face | View on Top Face | View on Right Face



View on Back Face



View on Front Face

Specification

	RA 3000 RAID5	RA 3000 RAID5	RA 3000 RAID5
Disk Space (GB)^^	3000	6000	9000
General Specification (RAID5)			
Recording Hard Drive Bays	4 (Hot-swappable)		
Operating System	Embeded Linux		
Video	Simultaneously record and playback full frame rate, full resolution video streams from any IndigoVision IP Camera or Encoder. Record and playback from other devices**		
Audio*	Recording and playback of AAC and G.711 audio		
Thumbnails*	Indexed recordings for rapid display of time-based, alarm-based or motion-based thumbnails		
Alarms	Recording and logging of alarms and events		
Bookmarks*	Recording and logging of bookmarks in association with recordings		
Analytics*	Recording and playback of motion analysis data from cameras		
Redundancy and Failover	Full DNA support, sophisticated failover and mirroring strategies amongst multiple NVRs for increased resilience and redundancy		
Automatic Storage Management	Policy based management options for automatic deletion or protection of old footage		
Digital Watermarking	Digital signing at point of recording and at export		
Recording Hard Drive	SATA Seagate SV35 Series optimised for 24x7 video storage. 3-year warranty		
RAID Controller	Hardware RAID Controller configured as RAID5		
Performance (Streams)	64^ Recording Streams when recording 9000 and 11000 Range Cameras 32 Recording Streams when recording BX and Ultra Range Cameras or third party ONVIF cameras		
Performance (Throughput)^	40^ Mbps in; 40 Mbps out; 80 Mbps total		
Network Interface	Two redundant 100/1000 BaseT RJ-45 Connections, TCP, UDP, ICMP, IGMP, SNMP, HTTP, NTP, Telnet, FTP		
Network Security	Embedded Linux firewall. Salted passwords with MD5 encryption		
Dimensions/Weight	272mm (d) x 483mm (w) x 87mm (h) and 8.2Kg		
Regulatory	EN 55022 ITE emission standard – Class A, EN61000-3-2 Mains Harmonics – Class A, EN61000-3-3 Voltage Fluctuation, EN55024 ITE immunity standard, UL 60950-1 , Information Technology Equipment - Safety Part 1: General Requirementsm CFR47: 2002 Part 15 Sub Part B (US federal code of regulations), Information Technology Equipment - Safety - Part 1: General Requirements CSA C22.2 No. 60950 - 1 - 07, EN 60068-2-30 Humidity up to 95% Non Condensing		
Housing	Mild Steel Chassis – Plastic (ABS) Fascia		
Electrical	Operating Voltage: Input 100-240V ~ 47-63Hz 1A. Connector for redundant external power supply. Power consumptions: 53W (max)		
Operating Temperature	0°C to 45°C		
Processor	Intel IOP341 1.2GHz		
Supplied Accessories	Rack Mount Kit (brackets), removable lockable fascia and PSU		
Onboard Diagnostics	Disk, CPU, Motherboard Temperatures, Redundant Power and Network Status, Cooling Fan Status		

* Features may vary based on capabilities of camera model. ** ONVIF or supported via IndigoVision Camera Gateway™.
^ 32 Recording Streams and 32 Mbps Performance Throughput when Digital watermarking is enabled. ^^ Additional storage options available.

Examples of Recording Duration in Days

Motion Level	20 Cameras	40 Cameras	64 Cameras
Occassional	170 days	85 days	50 days
Intermittent	34 days	17 days	10 days
Frequent	18 days	9 days	5 days

This table estimates the number of days recording on an RA4000 model (4TB storage) with different numbers of cameras assuming full frame rate, 4SIF, H.264 video at a maximum bitrate of 2Mbps. As IndigoVision Encoders only use required bandwidth, the actual recording capacity may be more or less than shown.

For more information:

ID: NVR-AS-3000 14.1 MAR 14

IndigoVision
Complete IP Video Security Solutions



Compact Network Video Recorder

Powerful and integrated recording and playback system for video and audio from cameras and encoders

With recording for up to 20 cameras and simultaneous playback of up to 20 cameras, the IndigoVision Compact NVR-AS 3000 offers a small and powerful recording platform with up to 3TB storage. Able to withstand temperature ranges of 0°C to 50°C, it is ideal for installation outside of traditional machine rooms such as retail or banking applications and has recording support for multiple camera manufacturers.

Key Features

COMPRESSION

H.264 | H.264 | JPEG 2000 | MJPEG | GUARANTEED 25fps

AAC | G.711

OTHER

DNA | Firewall | ONVIF | |

PHYSICAL

1U Height

STORAGE

RAID0 | SATA

Product Codes

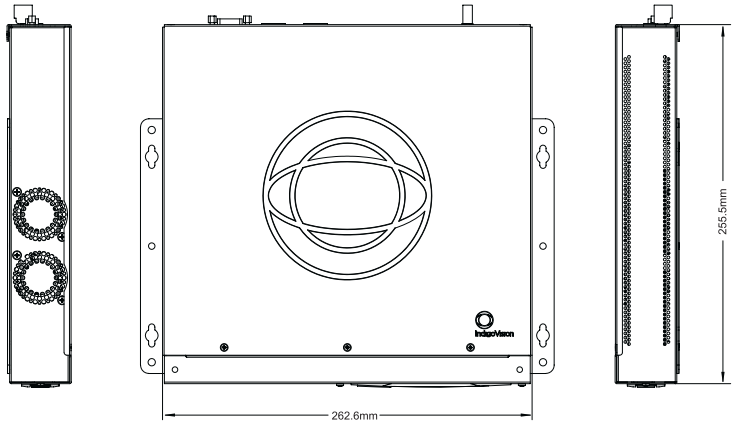
Compact NVR-AS 3000	Product Code
RD1000	980107
RD2000	980108
RD3000	980109

Recording Licences

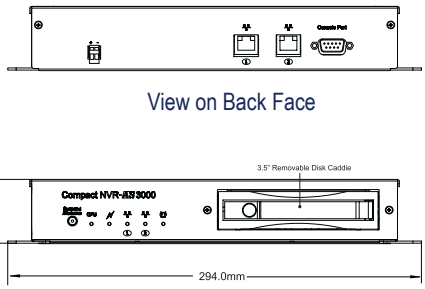
Number of Channels	1 Channel	Failover Channel
Recording for the IndigoVision BX/Ultra camera range & third party ONVIF devices	314001	314071
Recording for third party cameras via Camera Gateway™	311120	311121

For more information:

Dimensions



View on Left Face | View on Top Face | View on Right Face



View on Back Face

View on Front Face

Specification

	RD 1000	RD 1000	RD 1000
Disk Space (GB)	1000	2000	3000
General Specification			
Recording Hard Drive Bays	1 (Hot-swappable)		
Operating System	Embeded Linux		
Video	Simultaneously record and playback full frame rate, full resolution video streams from any IndigoVision IP Camera or Encoder. Record and playback from other devices**		
Audio*	Recording and playback of AAC and G.711 audio		
Thumbnails*	Indexed recordings for rapid display of time-based, alarm-based or motion-based thumbnails		
Alarms	Recording and logging of alarms and events		
Bookmarks*	Recording and logging of bookmarks in association with recordings		
Analytics*	Recording and playback of motion analysis data from cameras		
Redundancy and Failover	Full DNA support, sophisticated failover and mirroring strategies amongst multiple NVRs for increased resilience and redundancy		
Automatic Storage Management	Policy based management options for automatic deletion or protection of old footage		
Digital Watermarking	Digital signing at point of recording and at export		
Recording Hard Drive	SATA Seagate SV35 Series optimised for 24x7 video storage. 3-year warranty		
RAID Controller	Hardware RAID Controller configured as RAID0		
Performance (Streams)*	20 Recording plus simultaneous playback of 20 streams		
Performance (Throughput)*	40 Mbps in; 40 Mbps out; 80 Mbps total		
Network Interface	100/1000 BaseT RJ-45, TCP, UDP, ICMP, IGMP, SNMP, HTTP, NTP, Telnet, FTP		
Network Security	Embedded Linux firewall. Salted passwords with MD5 encryption		
Dimensions/Weight	255mm (d) x 263mm (w) x 45mm (h) and 2.2Kg		
Regulatory	EN 55022 ITE emission standard – Class A, EN61000-3-2 Mains Harmonics – Class A, EN61000-3-3 Voltage Fluctuation, EN55024 ITE immunity standard, CFR47: 2002 Part 15 Sub Part B (US federal code of regulations), EN 60068-2-30 Humidity up to 95% Non Condensing		
Housing	Mild Steel Enclosure		
Electrical	Operating Voltage: Input 100-240V ~ 47-63Hz 1A; Power consumption: 32W (max). 12V DC power supply included Operating Voltage: Input 100-240V ~ 47-63Hz 1A; Power consumption: 32W (max). 12V DC power supply included		
Operating Temperature	0°C to 50°C		
Processor	Intel IOP341 1.2GHz		
Supplied Accessories	External PSU		
Onboard Diagnostics	Disk, CPU, Motherboard Temperatures, Redundant Power and Network Status, Cooling Fan Status		

* With or without Digital Watermarking enabled.

Examples of Recording Duration in Days

Motion Level	5 Cameras	10 Cameras	20 Cameras
Occassional	160 days	80 days	40 days
Intermittent	36 days	18 days	9 days
Frequent	16 days	8 days	4 days

This table estimates the number of days recording on an RD1000 model (1TB storage) with different numbers of cameras assuming full frame rate, 4SIF, H.264 video at a maximum bitrate of 2Mbps. As IndigoVision transmitters only use required bandwidth, the actual recording capacity may be more or less than shown. For more accurate estimates, please see the IndigoVision website or contact IndigoVision's Partner Support.

IndigoVision
Complete IP Video Security Solutions



Windows Network Video Recorder

Your route to scalable recording

With recording for up to 200 cameras and simultaneous playback of up to 25 cameras, the IndigoVision Windows Network Video Recorder is a software NVR application that supports internal disks, internal RAID array, SCSI RAID array, iSCSI and Fibre Channel SAN and NAS. The IndigoVision Windows Network Video Recorder can also integrate other security systems for complete alarm management and has recording support for multiple camera manufacture.

Key Features

COMPRESSION

H.264 | JPEG 2000 | MJPEG | GUARANTEED 25fps

AAC | G.711

OTHER

DNA | Firewall | ONVIF

Product Codes

Window Network Video Recorder	Product Code
Windows NVR Licence	311110

Recording Licences

Recording Licences	1 Channel (included)	Additional 1 Channel	Failover Channel
8000, 9000 and 11000 camera range	n/a	n/a	n/a
Licence Dongle for BX and Ultra camera range and ONVIF devices	n/a	312551	312072
Licence dongle for third party cameras via Camera Gateway™	n/a	311102	311104

Requires a USB license dongle for each recording server. No recording licences required for recording of IndigoVision 8000, 9000 or 11000 devices. The Windows NVR-AS software is included on the Control Center management software CD, product code: 317803.

For more information:

Specification

General Specification	
Supported Operating Systems	Windows Server 2003 x64, Windows Server 2003, Windows XP Professional, Windows Server® 2008 R2
Video	Simultaneously record and playback full frame rate, full resolution video streams from any IndigoVision IP Camera or Encoder. Record and playback from other devices**
Audio*	Recording and playback of AAC and G.711 audio
Thumbnails*	Indexed recordings for rapid display of time-based, alarm-based or motion-based thumbnails
Alarms	Recording and logging of alarms and events
Bookmarks*	Recording and logging of bookmarks in association with recordings
Analytics*	Recording and playback of motion analysis data from cameras
Redundancy and Failover	Full DNA support, sophisticated failover and mirroring strategies amongst multiple NVRs for increased resilience and redundancy
Automatic Storage Management	Policy based management options for automatic deletion or protection of old footage
Digital Watermarking	Digital signing at point of recording and at export
Performance (Streams)	See Performance Guide

* Features may vary based on capabilities of camera model.
** ONVIF or supported via IndigoVision Camera Gateway™

NVR-AS PC Hardware Requirements

Your NVR PC should conform to the following minimum hardware specifications, depending on the number of streams you intend to record:

Number of 1Mpbs recording streams	Network Card	Hard Disk Type	CPU Power Required	OS
16	100Base-T	SATA (Min 1 disk)	Intel Pentium 4 1.4Ghz	Windows 7® 64-bit
32	1000Base-T	SATA RAID (Min 4 disks)	Intel Pentium 4 1.4Ghz	Windows Server® 2008 R2
100	1000Base-T	SATA RAID (Min 4 disks)	Intel Xeon 5140 Dual Core	Windows Server® 2008 R2
200	1000Base-T	SATA RAID (Min 8 disks)	Intel Xeon 5140 Dual Core	Windows Server® 2008 R2

The NVR-AS PC is recommended to be server class with a quad-core processor, 4GB of system memory and 40GB of a local system disk space running Windows Server 2008 R2. Enabling digital signatures approximately doubles CPU usage. For reliable system operation, the total system CPU usage should be less than 70%. This means that digital signatures should not be enabled if the NVR- AS averages more than 35% CPU in normal operating conditions.



Manage

Video and Alarms: Manage your system with ease

Taking care of complex actions should be simple.

Easy management of your entire security system. IndigoVision's Control Center was the first Video Client Software to give truly scalable solutions when it was originally released in 2002. With market leading video and alarm management features, in a completely licence free package, it allows any security system to open up to the true benefits of IP CCTV.

Need to access your system on the move? Mobile Center™ provides full viewing and control capabilities - even over 3G networks. Streaming your cameras via the web has never been easier, IndigoVision's Internet Streaming Software (ISS) has got that covered.

Do you want a world class IP CCTV solution, but keep the feel of analogue control? The Surveillance Keyboard gives you the feeling of an analogue CCTV control, with all the benefits of IP.

If you need more monitors, have as many as you want with IndigoVision's IP Video Wall software.

Manage Index

Control Center 80

- Integrated Video Management Software
- Manage video, access control and alarms
- Unrestricted licence
- View up to 100 simultaneous live streams
- Unlimited device support
- Live and recorded Advanced Analytics

Mobile Center™ 82

- Application for mobile devices
- iOS support for iPhone and iPad
- Andriod device support
- View video and listen to audio from any camera - up to 16 live streams
- Full PTZ control

Internet Streaming Server 84

- View cameras over the internet
- Windows Platform Service
- Compatible with major media players

Surveillance Keyboard 85

- Desktop keyboard with 3-axis joystick (pan/tilt/zoom)
- Multi-function keys and menu structure
- Full control of Control Center virtual matrix

IP Video Wall 86

- Construct large scale video walls using any monitors

IndigoVision
Complete IP Video Security Solutions



Control Center

Powerful and intuitive video viewing software

Control Center is IndigoVision's complete suite of management software. The user friendly software enables quick and efficient management of all your video and events from one location. Control Center allows live viewing and playback of IndigoVision cameras and a wide range of cameras from other manufacturers.

An unlimited licence and Distributed Network Architecture (DNA) gives you the option to locate operators anywhere on the network and manage you system locally or remotely.

- Intuitive user interface
- Lightning quick evidence review
- View any camera, anywhere, anytime
- Unified control for your entire system
- Map based navigation
- ONVIF conformant

Product Code

Control Center	
IndigoVision Product CD - Control Center Eagle	317803

For more information:

Specification

General Specification	
Supported Operating Systems	Windows Server 2003 x64, Windows Server 2003, Windows XP Professional, Windows Server® 2008 R2
Video	Simultaneously record and playback full frame rate, full resolution video streams from any IndigoVision IP Camera or Encoder. Record and playback from other devices**
Audio*	Recording and playback of AAC and G.711 audio
Thumbnails*	Indexed recordings for rapid display of time-based, alarm-based or motion-based thumbnails
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Automatic Storage Management	Policy based management options for automatic deletion or protection of old footage
Digital Watermarking	Digital signing at point of recording and at export
Performance (Streams)	See Performance Guide

Analogue Monitors (Decoders)	✓ (9000 Range)	✗
Video Wall	✓	✓
Playback	25 streams	25 streams
Synchronous Playback	✓	✓
Reverse Playback	✓	✓
Frame Step	✓	✓
Bookmarking	✓	✓
Search (Alarms and Bookmarks)	✓	✓
Motion and Audio Search	✓	Motion Only*
Thumbnail Overview	Time / Alarm / Bookmark / Motion / Audio	Time / Alarm / Bookmark / Motion*
Incident Export	Incident Player / 3rd Party Player (.mp4)	Incident Player / 3rd Party Player (.mp4)*
Camera Sequences	✓	✓
Sequences, Salvos and Guard Tours	✓	✓
Matrix Numbering	1 - 9,999,999	1 - 9,999,999
Keyboard Support	IndigoVision / Pelco / American Dynamics / Panasonic	IndigoVision / Pelco / American Dynamics / Panasonic
Event Inputs	Binary / Analytics / Network and Video Loss	Binary / Motion Detection* / Network Loss
Actions	Record / Email / Snapshot / Move to Preset / Relay Output / Audio	Record / Email / Snapshot* / Move to Preset / Relay Output*
Alarm Video	Live and Looped Replay / Pre-alarm video	Live and Looped Replay / Pre-alarm video
Procedure Documents	HTML / Text / URL	HTML / Text / URL
Time Schedules	✓	✓
Alarms on Maps	✓	✓
Alarm Reports	✓	✓
User Authentication	Windows authentication / Basic password	
User Groups	✓	
Access Permissions	Object and function based permissions	
Architecture	Fully distributed, no central server	
Licencing	Unlimited users	
Third Party Inputs	Using IndigoVision Binding Kit	
Zones	Group multiple inputs into a single alarm	
Device Discovery	✓	
Maps	Multi-layered maps (BMP / JPEG / PNG / DWG)	
Timezones	✓	
Device Status Summary	✓	
Audit Log	✓	
Multiple Languages	12+ languages including; English, French, German, Italian, Spanish	
Certification	BS8495:2007	
Open Standards and Certification	ONVIF Conformant	
Supported Operating System	Windows 7 ® 64-bit, Windows 8 ® 64-bit	

* Features may vary based on capabilities of camera model.
** Only if supported via IndigoVision Camera Gateway™

* Features may vary based on capabilities of camera model.

IndigoVision
Complete IP Video Security Solutions



Mobile Center™

Control Center on the go

IndigoVision Mobile Center™ extends the surveillance capabilities of Control Center way beyond the control room. Security personnel can monitor their system remotely from any location over mobile and wireless IP networks using a mobile phone or tablet.

- Familiar touch and swipe gestures
- High quality real-time video
- Full PTZ control
- Listen to audio
- Save favourite views
- Send video snapshots via email
- Activate remote devices, such as a light switch or door release
- Available for Apple iPhone, iPad and Android compatible smartphones and tablets

Mobile Center™ Service Licence

Mobile Center™ connects to an IndigoVision Control Center database via the Mobile Center™ Service which is installed on a Windows server. Mobile Center™ Service authenticates users and gives them access to the cameras within the Control Center installation that they have permission to view.

Mobile Center™ Service requires a licence key attached to the USB port on the Windows server. The licence key determines how many mobile devices can be connected to the Control Center installation at any one time. The product codes for ordering the licence key are in the following table:

	Without valid SUP contract	With valid SUP contract
Mobile Center™ Service dongle with one device licence	311107	n/a
Additional 1 device Mobile Center™ Service dongle upgrade	311108	n/a
Mobile Center™ Service dongle with 10 device licences	n/a	311109
Additional 10 device Mobile Center™ Service dongle upgrade	n/a	311111

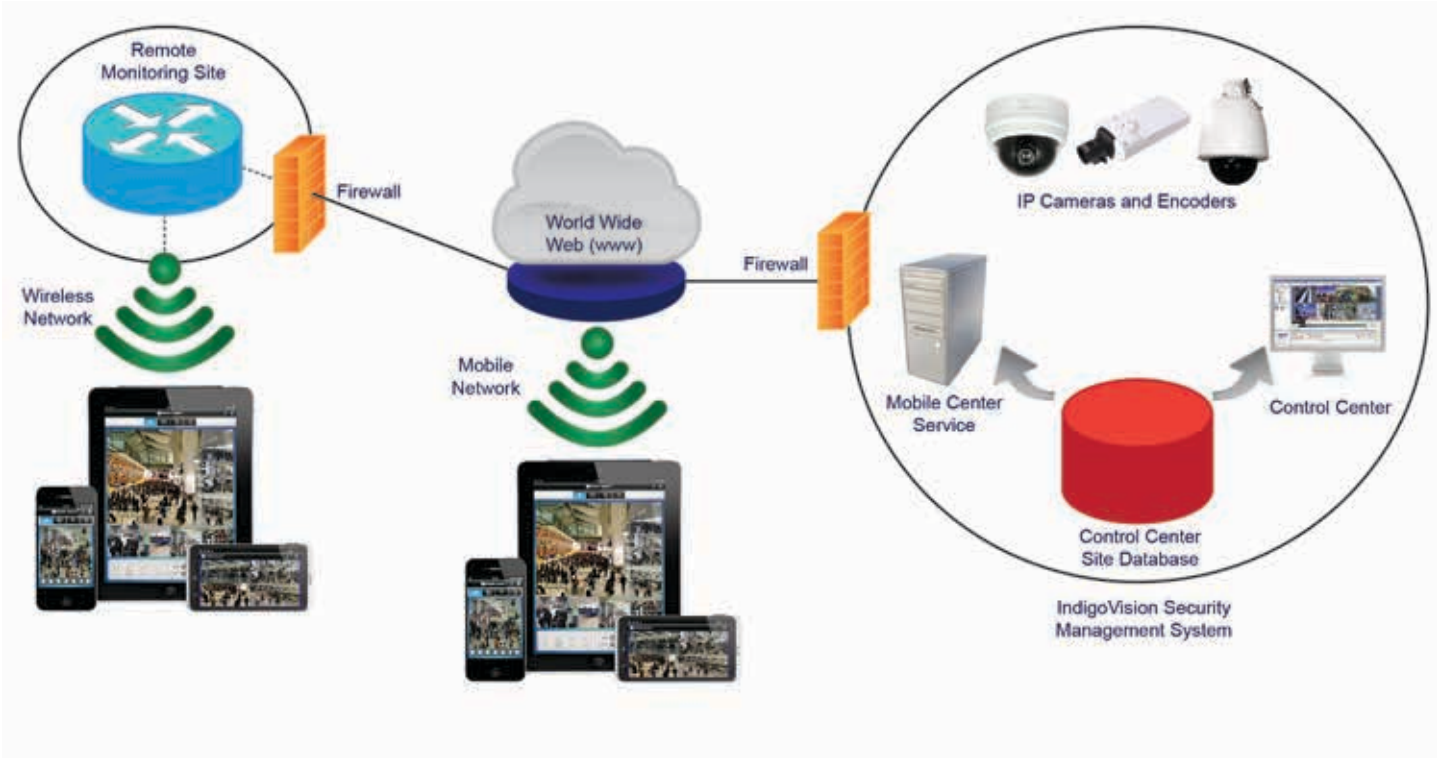
For more information:

Specification

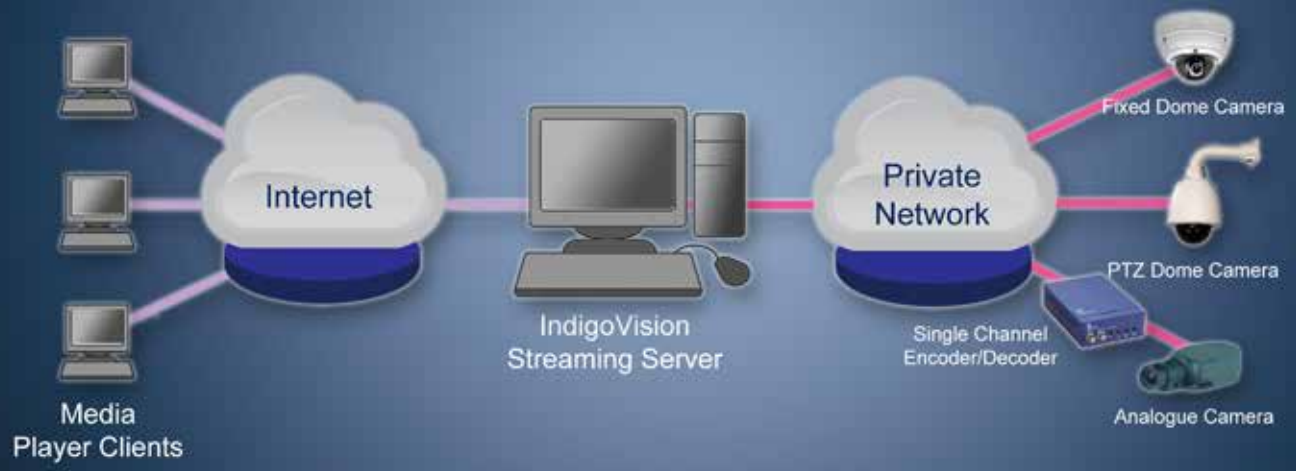
General Specification	
Mobile Devices	iPhone 4 or later, iPad 2 or later; Android arm-based smartphones and tablets
Mobile OS	iOS 6 and iOS 7; Android 2.3 or later
Supported Cameras and Encoders	IndigoVision 9000 range, 11000 range, BX range*^
Viewing Options	Multiple live camera views in grid layout, up to 4x4. Predefined named layouts
Audio	Receive audio from camera**
Digital Zoom	✓*
Snapshot	Save still image to phone library and attach to email
PTZ Control	Pan, Tilt and Zoom using touch screen gestures. Go to preset position. Custom commands*
Actions	Relay Output*
Networks	Wi-Fi, 3G
User Access	Logon via Control Center site database, configurable user permissions
Multiple Languages	5+, including: English, French*, German*, Portugese*

* iOS only.
** Excludes IndigoVision BX range.
^ Excludes IndigoVision BX100 Four Channel Encoder.

Mobile Center™ Diagram



IndigoVision
Complete IP Video Security Solutions



Internet Streaming Server

Webcast your cameras to the outside world

The IndigoVision Internet Streaming Server provides a webcasting solution to customers who wish to make their IndigoVision cameras viewable on the Internet. An example of a typical application would be the webcasting of traffic monitoring cameras. The IndigoVision Streaming Server is a Microsoft Windows Service that can be installed on any suitable Windows PC. Client PCs request video streams through standard media players. The IndigoVision Streaming Server can transmit each “internal” camera to an unlimited number of Internet clients.

- Microsoft Windows Service
- Transmit to unlimited internet clients
- Compatible with major media players
- Supports MPEG-4 and H.264

Product Codes

Internet Streaming Server	Product Code
1 stream dongle, unlimited viewers	318701
Additional 1 stream dongle upgrade, unlimited viewers	318772
Unlimited cameras and viewers	318799

Specifications

General Specification	
Video	MPEG-4 and H.264
Operating Systems	Windows Server 2003, Windows Server 2008 R2
Media Clients Supported	Apple Quicktime, RealNetworks Realplayer, VLC
Firewalls	No client firewall configuration required. Video is streamed through standard ports
Buffer Control	Automatic. The Streaming Server dynamically controls buffering to compensate for packet loss or varying available Internet bandwidth
Licencing	Licencing based on number of cameras being simultaneously viewed. The number of clients viewing those cameras is not restricted
Supported Products	9000 Range (firmware v3.4 onwards),11000 Range PTZ Dome Camera (firmware v4.0 onwards), 11000 Range Fixed Camera (firmware v4.0 onwards)
Server Hardware	Requires a 2.8GHz dual core processor to support 2000 simultaneous clients viewing one 140kbps stream. This is a total data throughput of about 250Mbps. Requires 256MB RAM for every 50Mbps of data throughput being served

For more information:

ID: IV-ISS 14.1 MAR 14

IndigoVision
Complete IP Video Security Solutions



Surveillance Keyboard

Who needs a mouse?

IndigoVision's Surveillance Keyboard is used to access Control Center's Virtual Matrix and IP Video Wall. The Control Center Virtual Matrix allows the Surveillance Keyboard to control IndigoVision and most third party PTZ cameras including Pelco and Panasonic.

- Seamless control of live and recorded video
- Desktop keyboard with 3-axis joystick (pan/tilt/zoom)
- Full variable PTZ control of speed domes
- Full control of Control Center virtual matrix
- Multi-function keys and menu structure
- Backlit LCD graphic display

Product Code

Surveillance Keyboard	
Surveillance Keyboard	110066

Specifications

General Specification	
Control	Proportional 3 axis joystick plus jog / shuttle dial
Numeric Keypad	12 Keys
Multi-function Keypad	10 Keys
LCD Graphic Display	128x128 Dots Blue Screen
LCD Backlit	Yes
Keyboard Power Supply	12V DC; Power supply included
Power Consumption	15W
Operating Temperature	5°C to 40°C
Dimensions/Weight	160mm (d) x 365mm (w) x 113mm (h) x and 1.06Kg
RS232 connections	1 Serial Line (COM) Female DB9 Connector
Regulatory	EN 55022:1998 + A1:2000 + A2:2003 + EC:2005 Class B; EN 50130-4:1995 + A1:1998 + A2:2003 EN 60950-1:2001; Directive 2002/95/CE (ROHS)

For more information:

ID: IV-SK 14.1 MAR 14

IndigoVision
Complete IP Video Security Solutions



IP Video Wall

Build your own control rooms, cost effectively and scalably

Using IndigoVision's IP Video Wall software, a video wall can be constructed using slave workstations, each of which displays up to 100 panes of video across four monitors. The video wall is controlled over an IP network by an unlimited number of master workstations. Large video walls are constructed using as many Slaves as necessary.

The video wall is managed from Master Control Center workstations through a standard CCTV keyboard. Monitors within the video wall can be used to display a variety of information; Video, Guard Tours, Salvos, Site Maps, Alarm Status.

- Construct video walls using any PC monitors e.g. CRT, Plasma, LCD, HD TV
- Controlled using standard CCTV keyboards
- Supports SD, HD and higher resolutions up to 20MP
- Display video, site maps and alarm status
- Dynamically change the video layout of a monitor

Product Code

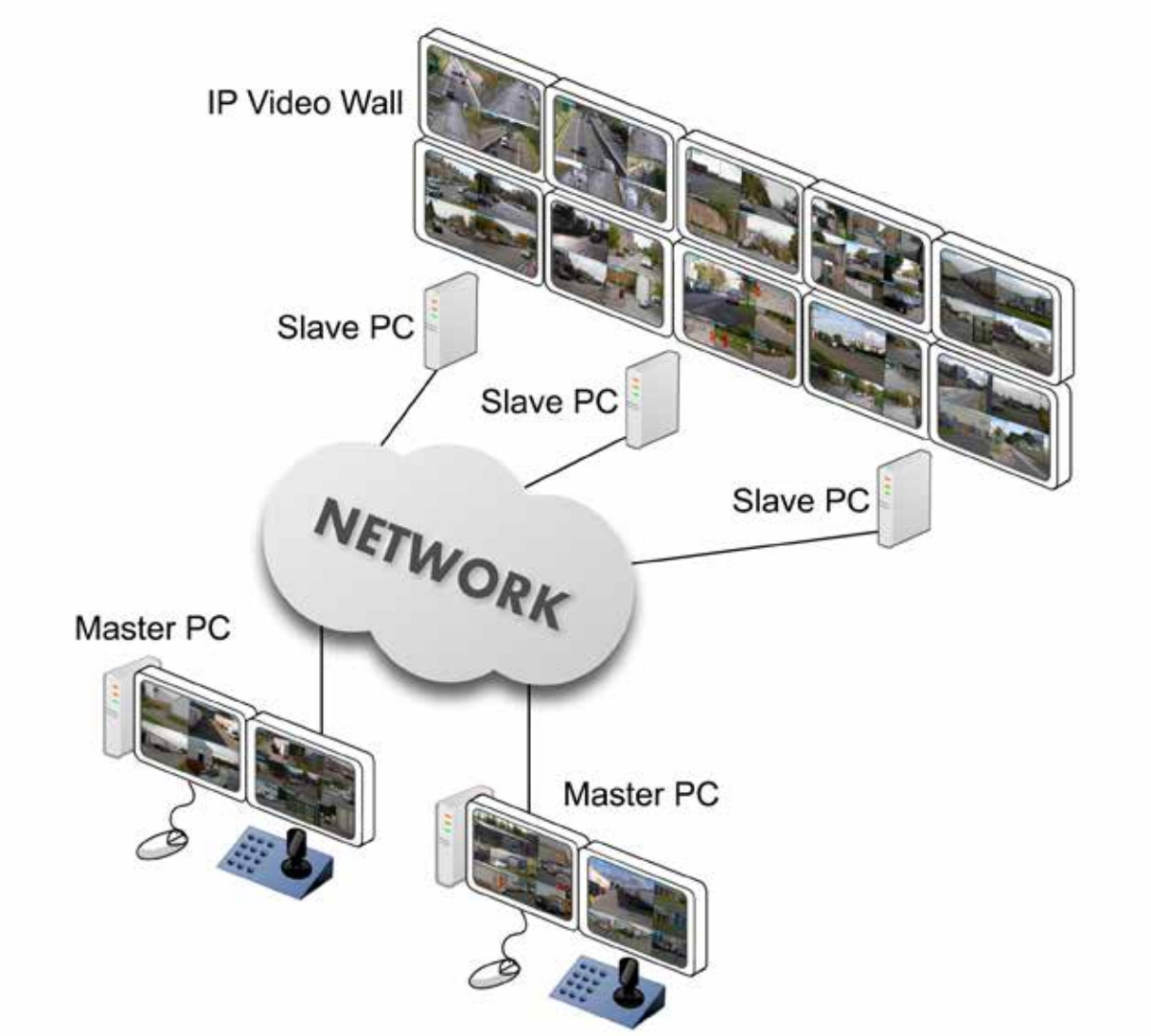
IP Video Wall	
IP Video Wall Slave Dongle	317301

For more information:

Specification

General Specification	
Master PCs	Unlimited
Slave PCs	Up to 98 individually licensed PCs
Maximum Monitors per Slave	4
Maximum Panes per Monitor	25
Maximum Totat Video Wall Panes	9800
Supported CCTV Keyboards	IndigoVision Surveillance Keyboard, Pelco KBD300A, American Dynamics ADCC1100, American Dynamics AD2088, Panasonic WV-CU650
Supported Actions	Select camera into pane, Stop video on pane, Pan/Tilt/Zoom/Focus/Iris/Preset control, Sequence control (start/stop/pause/next/previous), Salvo control (start/stop), Guard Tour control (start/stop), Change monitor layout
Supported Operating Systems	Windows 7 ® 64-bit, Windows 8 ® 64-bit
Supported Network	Windows Domain

IP Video Wall Diagram





Integrate

For a truly open solution

Cameras; Alarms; Access Control. It's all completely integrated.

Security. It's not just about CCTV. There are alarms, access control and other additional components in your system. At IndigoVision, we understand that these components work better when integrated into your CCTV system. That's why IndigoVision has the most open system in the market.

All of IndigoVision's management and recording solutions completely support ONVIF encoders and cameras, but sometimes people have legacy cameras that are seen to be undesirable by modern management and recording solutions. With Camera Gateway™, you can fully integrate your legacy IP camera hardware into IndigoVision's Control Center and Network Video Recorders (NVRs). If you need to convert your old, unfashionable alarm system into a fully integrated, world class IP video and alarm management solution, IndigoVision's Alarm Servers can do just that - meaning you don't have to throw away your valuable alarm and video investment just yet.

If the additional system is software based, IndigoVision's Integration Modules enable incorporation of most of the leading access control manufacturers, as well as other software systems into one solution.

If you need to integrate with a system that is not already covered by our Integration Modules, don't worry our Software Development Kit (SDK) has that covered.

IndigoVision. A truly open solution.

Integrate Index

Camera Gateway™ 90
- Integrate legacy and non-ONVIF IP cameras

Software Development Kit 92
- Integrate the IndigoVision solution with third party software

Alarm Panel 94
- Integrate physical (binary) alarms
- Supervised tamper-detect inputs

Integration Modules 96
- Enable communication of events and data between IndigoVision and third party software

IndigoVision
Complete IP Video Security Solutions



Camera Gateway™

Freedom to choose any camera

The IndigoVision Camera Gateway™ enables cameras from a range of other manufacturers to be connected to the IndigoVision Control Center suite. It takes video streams from other manufacturers' cameras using their native protocols and integrates them into the Control Center front-end application.

Camera Gateway™ also supports audio, PTZ control, events and outputs. The cameras do not need to support ONVIF in order to connect to the IndigoVision system, giving customers a wide choice of cameras to choose from.

Camera Gateway™ is a software service that can be installed on a Windows server, giving total flexibility. The service enables multiple clients to stream video from the same camera, whilst only requiring a single stream from the camera to the Camera Gateway™.

- Live video streaming MJPEG, MPEG-4 or H.264
- PTZ control
- Audio receive
- Dual streaming - select different profiles for live viewing and recording
- Events and outputs

Product Code

Camera Gateway™	
Camera Gateway™ Server Licence	311100

Recording Licences

Number of Channels	1 Channel	Failover Channel
NVR-AS 4000 Recording	311120	311121
NVR-AS 3000 Recording	311120	311121
Windows NVR-AS Recording*	311102	311104

* Windows NVR-AS software licence required, product code 311110.

For more information:

Specification

General Specification	
Live Video	Live video streaming: MJPEG, MPEG4, H.264 Dual Streaming - select different profiles for live viewing and recording PTZ control Multicast from Camera Gateway™ to Control Center
Audio	Audio Receive
Recording and Playback	Record video: MJPEG, MPEG4, H.264 Record on alarm Playback video Thumbnails, bookmarks
Alarms and Events	Events from other cameras: Motion Detection / Binary Inputs and Outputs
Supported Devices	Cameras from a wide range of manufacturers, including: 3S Arecont Axis Basler Bosch Digital Barriers Ganz Grandstream Panasonic Pelco Samsung SightLogix Vivotek
Supported Devices Coming Soon	ACTi FLIR Grandeye IQInVision JVC Mobotix Sanyo Sony
Supported Operating Systems**	Windows 7 ® 64-bit, Windows Server 2008 ® R2
Hardware Requirements	Server class PC; Current generation Intel Xeon Processor with 3.10 Ghz clock speed; 4GB RAM
Performance	Maximum incoming bandwidth (cameras to Camera Gateway™), 150Mbps. Maximum outgoing bandwidth (Camera Gateway™ to Control Center and NVR), 450Mbps. Maximum number of cameras, provided the bandwidth is within the limits above: 100.

** For systems with more than 16 streams Windows Server 2008 ® R2 is recommended. Further details available in the Install Guide and Performance Reference Guide.

Camera Gateway™ Diagram



IndigoVision
Complete IP Video Security Solutions



Software Development Kit

The IndigoVision Software Development Kit (SDK) allows software developers to integrate third party applications with the IndigoVision IP Video and Alarm Management System.

- Available to Authorised Partners free of charge, on the IndigoVision Product CD*
- SDK consists of five components:
  - IndigoVision Binding Kit - Integrate with third party systems through an application exchanging events and alarms (i.e. access control systems, alarm management systems)
  - Custom Objects - Create new functionality within the Control Center front end interface
  - Control Center Automation Interface - Interface programmatically with the Control Center front end
  - IndigoVision Snap - Automatically take snapshots at configurable intervals
  - Video Integration Kit* - Integrate video from IndigoVision devices in third party applications

Product Code

Software Development Kit	
IndigoVision Binding Kit Custom Objects/Control Center Plugins Control Center Automation Interface IndigoVision Snap	Included on the IndigoVision Product CD - Control Center Eagle - 317803
Video Integration Kit*	Contact your Sales Agent for more information

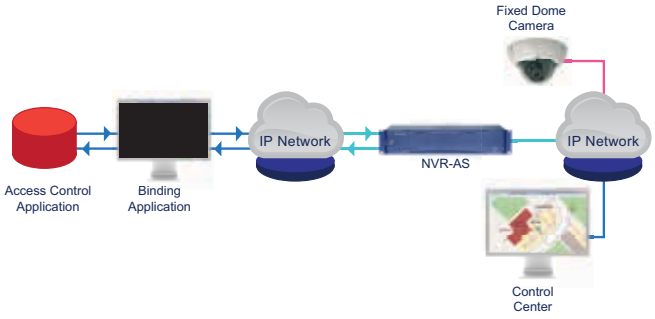
* Although part of the Software Development Kit the 'Video Integration Kit' component is not available on the IndigoVision Product CD, this is obtainable by contacting your Sales Agent.

For more information:

SDK Components

IndigoVision Binding Kit

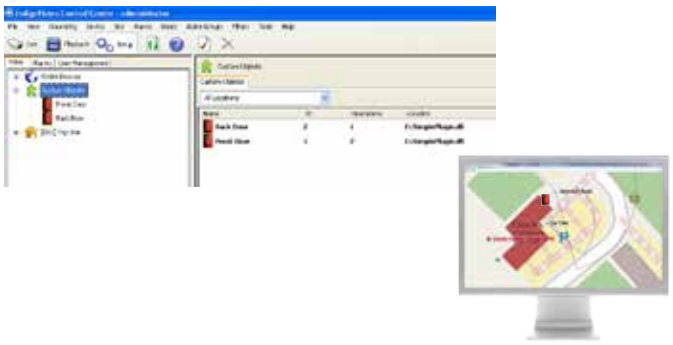
The IndigoVision Binding Kit enables software to be developed that integrates external systems such as alarm management, EPOS and access control systems with the IndigoVision IP Video System.The Kit allows developers to write applications using standard languages such as Visual Basic or VBScript. Both a 'C' DLL and a COM interface are provided. Binding Kit applications can generate external alarm events within an IndigoVision system, or receive alarm status events from IndigoVision NVR-AS. Alarm status events are generated by NVR-AS when new alarms occur and when existing alarms are assigned, acknowledged or deleted.



Custom Objects

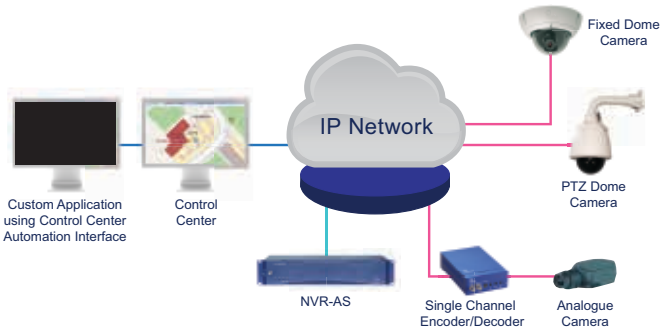
Control Center supports a plugin architecture which allows third party developers to integrate objects into the Control Center device hierarchy and map displays. For example, an integration between Control Center and an access control system could create objects representing doors. The door objects could be controlled through the Control Center user interface via custom menus and mouse click events. In addition, the access control system could refresh the state of the door object by changing its icon automatically.

The Custom Object SDK supports customised icons, menus and actions. Developers create plugin DLLs which comply with the IndigoVision interface. Control Center administrators then create instances of the custom objects within the Control Center device hierarchy and place their icons on maps.



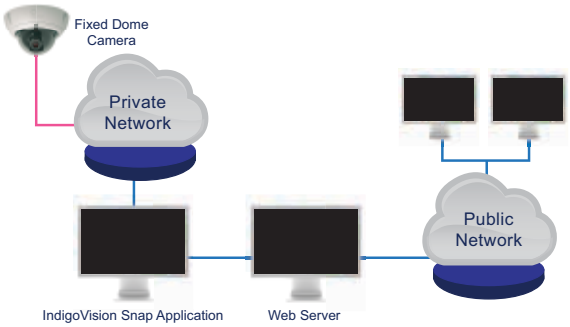
Control Center Automation Interface

The Control Center Automation Interface is a COM interface that enables external scripts and programs to carry out a number of operations on the Control Center application. These include starting and stopping live video, playing back and exporting recordings and moving PTZ cameras.



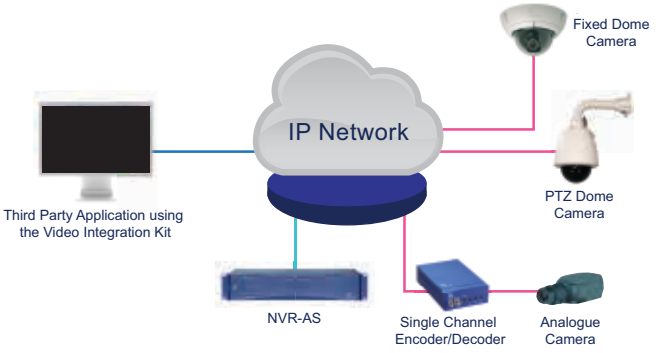
IndigoVision Snap

The IndigoVision Snap utility allows you to grab frames from a specified IndigoVision device at regular intervals and save them to a destination directory in JPEG format. To take snapshots from multiple cameras, start multiple instances of IndigoVision Snap.



Video Integration Kit

The IndigoVision Video Integration Kit supports the integration of live and recorded video from an IndigoVision system into third party systems. This can be used together with the IndigoVision Binding Kit to provide full alarm and video integration with i.e. third party alarm management and access control systems. Please contact your IndigoVision Sales Agent for more information.



IndigoVision
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Alarm Panel

The simplest way to connect third party systems to IndigoVision

The IndigoVision Alarm Panel connects directly to a Ethernet LAN and provides 32 binary inputs and 8 relay outputs. The Alarm Panel is IndigoVision 19” rack mountable and two variants are available:

- Alarm Panel with opto-isolated inputs for detecting standard alarm source events.
- Alarm Panel with supervised tamper-detect inputs for detecting open or close.

Positive and/or negative edge triggered inputs can generate events on the IP network, which can be used by the Control Center front-end application to record video, display video from specific cameras, move cameras to preset PTZ positions, activate binary outputs etc. Outputs can be activated remotely over the IP network.

Key Features

OTHER

DNA

PHYSICAL

1U Height

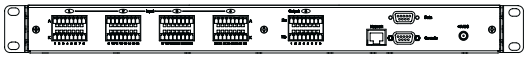
19” Rack

Product Codes

Alarm Panel	
Alarm Panel with Opto-Isolated Inputs	980145
Alarm Panel with Supervised Tamper-Detect Inputs	980144

For more information:

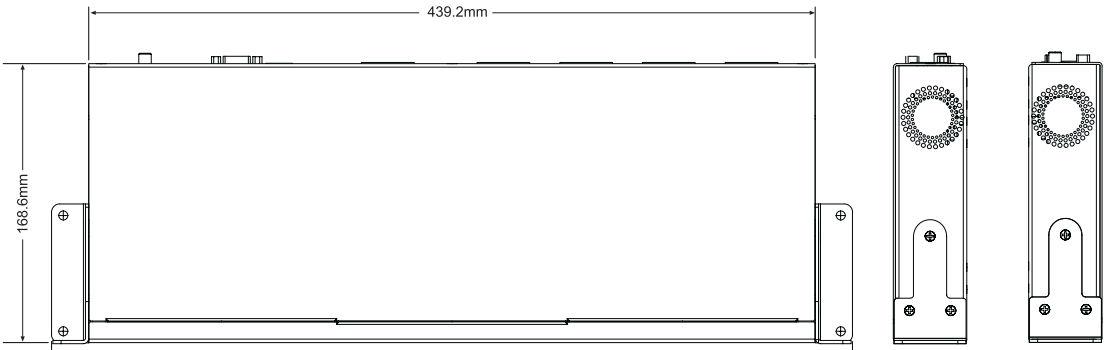
Dimensions



View on Back Face

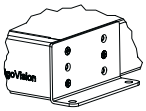


View on Front Face



View on Top Face

View on Side Face



Wall/Surface Mounting



19" Rack Mounting

Specification

General Specifications	
Ratings	Normally open relay outputs: Maximum ON resistance 40 Ohms Maximum carry current 100mA; Maximum voltage 50Vpk
Binary Input/Output	32 opto-isolated or supervised tamper-detect inputs; 8 solid state relay outputs
Data Input/Output	1 Data port: RS232/RS422/RS485 up to 115.2 Kbps; 1 Data/Console port: RS232 up to 115.2 Kbps
Network Interface	Ethernet IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, ICMP, IGMP, SNMP, HTTP; Embedded Linux firewall
Time	Embedded real-time clock, NTP client
Dimensions/Weight	167.4mm (d) x 439.2mm (w) x 44.4mm (h) and 4.4Kg
Regulatory	EN55022 ITE Emission standard Class A; EN61000-3-2 Mains Harmonics Class A; EN61000-3-3 Voltage Fluctuation EN55024 ITE Immunity standard; CFR47: 2002 Part 15 Sub Part B (US federal code of regulations)
Electrical	Operating voltage: 5V DC @ 1.2A; Power consumption: 5W (typical) 6W (max)
Operating Temperature	0°C to 50°C

IndigoVision
Complete IP Video Security Solutions

Integration Module Matrix

IndigoVision's Integration Modules integrate third party systems such as access control and intruder detection systems with Control Center, IndigoVision's complete suite of management software. The modules allow a flow of events between IndigoVision and the external system in a totally seamless fashion to deliver a fully integrated security solution. Third party events can trigger a wide range of actions within the IndigoVision system including starting recordings, displaying live video, moving PTZ cameras and sending notification emails. Some third party systems can also receive events from IndigoVision.

The IndigoVision Integration Modules are compatible with SMS4™ r2/Control Center v11.0 or later.

The table below details the Integration Modules available. To see the complete datasheets for the Integration Modules please visit http://www.indigovision.com/integration-downloads

Access Control

Integration Module	IndigoVision Module Version	Alarm events into IndigoVision	Alarm events from IndigoVision	Acknowledgement of IndigoVision alarms	Live video display
Gallagher*	Various (see note)	✓*	✓*		✓*
Honeywell Galaxy	v1.0.0 or later	✓			
Honeywell Pro-Watch	v1.0.1	✓			
Lenel	v1.2.2	✓			
MASC	v2.0	✓	✓		
MAXxess	v1.0.0	✓			
PAC	v1.0	✓			
Paxton	v1.0	✓			
S2	v1.0	✓			
Software House C•CURE 800/8000	v2.1	✓	✓	✓	
Software House C•CURE 9000	v2.1	✓	✓		

* Gallagher Integration Module: Pass events from Gallagher to IndigoVision - OPC A&E Integration Module v1.0 or later. Pass events from IndigoVision to Gallagher - Integration Module v1.1 or later.

Alarm Systems

Integration Module	IndigoVision Module Version	Alarm events into IndigoVision	Alarm events from IndigoVision	Acknowledgement of IndigoVision alarms	Live video display
Bosch TCU Module	v1.0	✓			
General Electric (GE)	v1.2.1	✓			
Microsoft SQL	v1.0.1	✓			
OPC A&E Client	v1.0	✓			
OPC DA Client	v1.0	✓			
OPC DA-XML Server	v2.0		✓		

Building Management

Integration Module	IndigoVision Module Version	Alarm events into IndigoVision	Alarm events from IndigoVision	Acknowledgement of IndigoVision alarms	Live video display
TAC	v1.0.1	✓			

Electronic Point of Sale

Integration Module	IndigoVision Module Version	Alarm events into IndigoVision	Alarm events from IndigoVision	Acknowledgement of IndigoVision alarms	Live video display
Shop Alert	v1.0	✓			

IndigoVision
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Integration Module Matrix

Intruder Alarms/Perimeter Detection

Integration Module	IndigoVision Module Version	Alarm events into IndigoVision	Alarm events from IndigoVision	Acknowledgement of IndigoVision alarms	Live video display	Relay output controlled from IndigoVision^
Geoquip	v1.0	✓				
Senstar	v1.0.2	✓				
Southwest Microwave INTREPID	v1.0	✓				✓

^ Relay outputs are directly controlled by IndigoVision's system such as triggering a gate release mechanism.

Telephony Systems/Help Points

Integration Module	IndigoVision Module Version	Alarm events into IndigoVision	Alarm events from IndigoVision	Acknowledgement of IndigoVision alarms	Live video display
GAI-Tronics	v1.0	✓			

For more information:

ID: IV-IMM 14.1 MAR 14

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總代理 Distributer:

利百安有限公司 Leapa Limited
T: +852 3426 3690
F: +852 3426 9678
E: sales@leapa.net
W: www.leapa.net



IndigoVision
Complete IP Video Security Solutions

email enquiries@indigovision.com
visit www.indigovision.com
call +44 131 475 7200 Europe & Rest of World
+1 908 315 0288 US & Canada
+55 11 3641 3281 Latin America
+65 63 490708 Asia Pacific

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