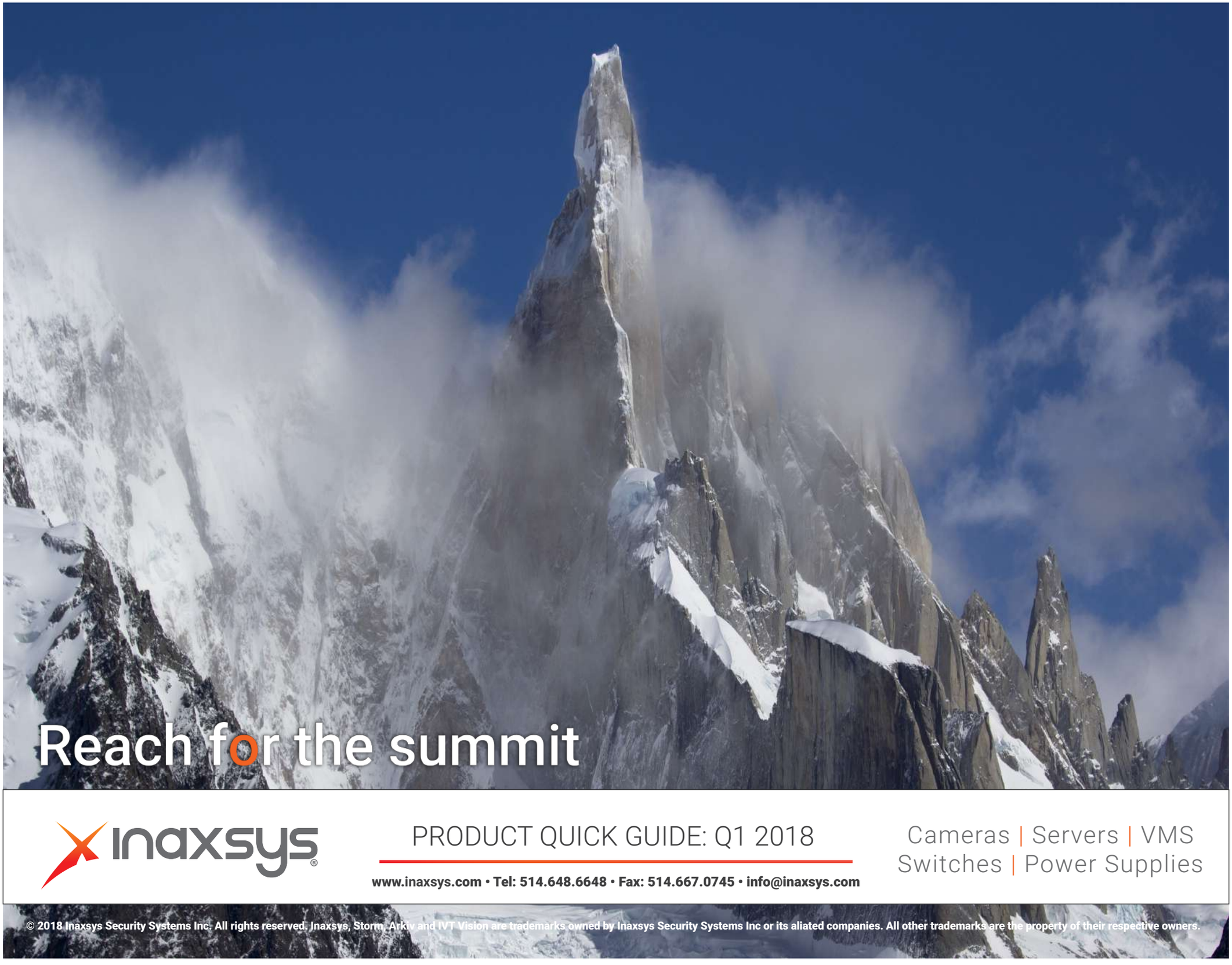

inaxsys®

PRODUCT QUICK GUIDE: Q1 2018

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Cameras | Servers | VMS
Switches | Power Supplies

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ABOUT INAXSYS

Inaxsys is a manufacturer and reseller specializing in innovative video surveillance technology and solutions comprising of megapixel IP and HDCVI cameras, servers and storage, video management software (VMS) and related network transport systems such as PoE switches, media converters and encoders.

The modern physical security landscape is converging and has become network centric and IP focused to take full advantage of efficiencies that can be used to drive business excellence and safeguard information and assets. This shift in approach has shaped Inaxsys' priority of offering open architecture solutions that take full advantage of investments in information transport systems (ITS) for vertical markets such as education, healthcare, government, financial, commercial and industrial.

Inaxsys is headquartered in Montreal, Canada with distribution in the Americas and Europe. For more information about Inaxsys please visit our website at www.inaxsys.com.

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PRODUCT LINE

- Surveillance Cameras
- Servers & Storage
- Video Management Software
- Power Supplies
- PoE Switches

INAXSYS

PoE Switches
Power Supplies
Servers

STORM

Surveillance Cameras
NVR's / DVR's
VMS

ARKIV

Intelligent VMS

IVTVISION

VMS

Model		**INSBO4KIRF**	**INSDO4KIRF**	**INSDO4KIRA**	**INSDO5HEM**	**INSDO6IRHEM**	**INSDO12IRHEM**
Image Sensor		1/2.5" 8 MP STARVIS™ progressive scan CMOS	1/2.5" 8 MP STARVIS™ progressive scan CMOS	1/1.7" 12 MP STARVIS™ progressive scan CMOS	1/3" 5 MP progressive scan CMOS	1/1.8" 6 MP STARVIS™ progressive scan CMOS	1/1.7" 12 MP STARVIS™ progressive scan CMOS
Effective Pixels		3840(H) x 2160(V)	3840(H) x 2160(V)	4000(H) x 3000(V)	2592(H) x 1944(V)	3072(H) x 2048(V)	4000(H) x 3000(V)
Minimum Illumination		0.05 Lux/F1.6(Color), 0 Lux/F1.6(IR on)	0.05 Lux/F1.6(Color), 0 Lux/F1.6(IR on)	0.01 Lux/F1.53(Color), 0 Lux/F1.53(IR on)	0.01 Lux/F2.6 (Color); 0.001 Lux/F2.6 (B/W)	0.002 Lux/F2.0 (Color); 0 Lux/F2.0 (IR on)	0.001 Lux/F2.8 (Color); 0 Lux/F2.8 (IR on)
Maximum Length of IR LEDs		40m	30m	50m	N/A	10m	10m
Day/Night		Auto (ICR) / Color / B/W	Auto (ICR) / Color / B/W	Auto (ICR) / Color / B/W	Auto(Electronic) / Color / B/W	Auto (ICR) / Color / B/W	Auto (ICR) / Color / B/W
Backlight Compensation		BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR
Focal Length / Max. Aperture/ H.Angle		4mm / F1.6 H:87° - V:48°	4mm / F1.6 H:87° - V:48°	4.1mm - 16.4mm / F1.53 H: 105° - V:77°	1.42mm / F2.6 H: 185°	1.7mm / F2.0 H: 180° - V:180°	1.98mm / F2.8 H: 180°
Pan / Tilt / Rotation		Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	Pan:0°~355°; Tilt:0°~64°; Rotation:0°~355°	Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°	N/A	N/A	N/A
Focus Control		Fixed	Fixed	Motorized / Auto Iris(HALL)	Manual	Fixed	Fixed
Lens Type / Mount Type		Fixed / Board-in Type	Fixed / Board-in Type	Fixed / Board-in Type	Fixed Lens / Board-in Type	Fixed / Board-in Type	Fixed / Board-in Type
DORI Distance	Detect	99m(325ft)	99m(325ft)	W: 115m T: 227m	N/A	28m(92ft)	42m(138ft)
	Observe	40m(131ft)	40m(131ft)	W: 46m T: 111m	N/A	11m(36ft)	17m(56ft)
	Recognize	20m(66ft)	20m(66ft)	W: 23m T: 55m	N/A	6m(19ft)	8m(27ft)
	Identify	10m(33ft)	10m(33ft)	W: 11m T: 28m	N/A	3m(9ft)	4m(14ft)
Compression		H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.264/ MJPEG	H.265/H.264	H.265/H.264
Frame Rate	Main Stream	4K(1-15fps) / 3MP(1-25/30fps)	4K(1-15fps) / 3MP(1-25/30fps)	12MP(1-20fps) / 4K(1-25/30fps)	5MP (1-12 fps) / UXGA (1-25/30 fps)	6MP / (1-25/30 fps)	12MP (1-25 fps) / 8MP (1-25/30 fps)
	Sub Stream	D1(1-25/30fps)	D1(1-25/30fps)	D1 (1-25/30fps)	D1/CIF (1-25/30 fps)	D1/CIF (1-25/30 fps)	D1 (1-25/30 fps)
	Third Stream	720P(1-25/30fps)	720P(1-25/30fps)	1080P(1-25/30fps)	N/A	1.3M(1-25/30fps)	1.3M (1-25/30fps)
Bit Rate		H.264: 24K-10240Kbps; H.265: 14K-9984Kbps	H.264: 24K-10240Kbps; H.265: 14K-9984Kbps	H.264: 24K-16384Kbps; H.265: 14K-9984Kbps	H.264: 20K-8192Kbps	H.264: 24K-16384Kbps; H.265: 14K-9984Kbps	H.264: 24K-16384Kbps; H.265: 14K-9984Kbps
Ethernet		RJ-45 (10/100Base-T)	RJ-45 (10/100Base -T)	RJ-45 (10/100Base -T)	RJ-45 (10/100Base-T)	RJ-45 (100/1000Base-T)	RJ-45 (100/1000Base-T)
Audio in/out		N/A	1/1 channel in/out	1/1 channel in/out	1/1 channel in/out (Built in mic)	1/1 channel in/out (Built in Mic)	1/1 channel in/out (Built in Mic)
Alarm in/out		N/A	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC	1/1 channel in/out	2 channel In: 5mA 5VDC 2 channel Out: 1A 30VDC / 0.5A 50VAC	2 channel In: 5mA 5VDC 2 channel Out: 1A 30VDC / 0.5A 50VAC
Memory Slot		Micro SD maximum 128GB	Micro SD maximum 128GB	Micro SD maximum 128GB	Micro SD maximum 64GB	Micro SD maximum 128GB	Micro SD maximum 128GB
Smart Detection		N/A	Tripwire, Intrusion, Face Detection	Tripwire, Intrusion, Heatmap, Face Detection	N/A	Tripwire, Intrusion, Heatmap	Tripwire, Intrusion, Heatmap
Power Supply / Power Consumption		DC12V, PoE (802.3af) Less than 7W	DC12V, PoE (802.3af) Less than 5W	DC12V/AC24V, PoE+(802.3at)Less than 18W	DC12V, PoE; Max 6W	DC12V, PoE (802.3af) Less than 12W	DC12V, PoE (802.3af) Less than 12W
Working Environment		-30°C to +60°C and less than 95% RH	-30°C to +60°C and less than 95% RH	-40°C to +60°C and less than 95% RH	-30°C to + 60°C and less than 95% RH	-30°C to +60°C and less than 95% RH	-30°C to +60°C and less than 95% RH
Ingress Protection / Vandal Resistance		IP67; N/A	IP67; IK10	IP67; IK10	N/A; IK10	IP67; IK10	IP67; IK10

Model	INS8824KN (2T to 16T)	INS161624KN (2T to 16T)	INS324K (4T to 64T)	INS644K (4T to 64T)
IP Camera Inputs	8 channels	16 channels	32 channels	64 channels
Two-way Talk	1 channel Input, 1 channel Output, RCA	1 channel Input, 1 channel Output, RCA	1 channel Input, 1 channel Output, RCA	1 channel Input, 1 channel Output, RCA
Interface	1 HDMI, 1 VGA	1 HDMI, 1 VGA	2 HDMI, 1 VGA	2 HDMI, 1 VGA
Resolution	3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720, 1024 × 768	3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720, 1024 × 768	3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720, 1024 × 768	3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720, 1024 × 768
Display	1 / 4 / 8 / 9	1 / 4 / 8 / 9 / 16	1st screen: 1 / 4 / 8 / 9 / 16 / 25 / 36; 2nd screen: 1 / 4 / 8 / 9 / 16	1st screen: 1 / 4 / 8 / 9 / 16 / 25 / 36; 2nd screen: 1 / 4 / 8 / 9 / 16
Recording Mode	Manual, Schedule (Regular, Motion Detection, Alarm, IVS), Stop	Manual, Schedule (Regular, Motion Detection, Alarm), Stop	Manual, Schedule (Regular, Motion Detection, Alarm, IVS), Stop	Manual, Schedule (Regular, Motion Detection, Video loss, Alarm), Stop
Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, Snapshot, Buzzer & Screen Tips	Recording, PTZ, Tour, Alarm out, Video Push, Email, Snapshot, Buzzer & Screen tips	Recording, PTZ, Tour, Alarm out, Video Push, Email, FTP, Snapshot, Buzzer & Screen tips	Recording, PTZ, Tour, Alarm out, Video Push, Email, FTP, Snapshot, Buzzer & Screen tips
Video Detection	Motion Detection, MD Zones: 396 (22×18), Video Loss & Tampering	Motion Detection, MD Zones: 396 (22×18), Video Loss & Tampering	Motion Detection, MD Zones: 396 (22×18), Video Loss & Tampering	Motion Detection, MD Zones: 396 (22×18), Video Loss & Tampering
Alarm Inputs	4 Channel, Low Level Effective, Green Terminal Interface	4 Channel, Low Level Effective, Green Terminal Interface	16 Channel, Low Level Effective, Green Terminal Interface	16 Channel, Low Level Effective, Green Terminal Interface
Compression	Smart H.265+/H.265/ Smart H.264+/H.264/MJPEG	Smart H.265+/H.265/ Smart H.264+/H.264/MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG
Relay Outputs	2 Channels, NO/NC Programmable, Green Terminal Interface	2 Channels, NO/NC Programmable, Green Terminal Interface	8 Channels, NO/NC Programmable, Green Terminal interface	8 Channel, NO/NC Programmable, Green Terminal Interface
Ethernet Ports	1 RJ-45 port (10/100/1000Mbps) 8 ports (IEEE802.3at/af) PoE. 1 Independent 1000Mbps Ethernet Port	1 RJ-45 Ports (10/100/1000Mbps) 16 ports (IEEE802.3at/af) PoE. 1 Independent 1000Mbps Ethernet Port	2 RJ-45 Ports (10/100/1000Mbps) 2 Ethernet ports jointly working or 2 Ethernet ports - 1000 Mbps	2 RJ-45 ports (10/100/1000Mbps) 2 Ethernet ports jointly working or 2 independent 1000 Mbps Ethernet ports
Internal HDD	2 SATA III ports, up to 8TB for each HDD	2 SATA III ports, up to 8TB for each HDD	8 SATA III ports, up to 8TB for each HDD	8 SATA III Ports, up to 8 TB for each HDD
eSATA	N/A	N/A	1 eSATA port	1 eSATA port
Power Supply	Single AC100V-240V, 50-60Hz, NVR: Less than 14.5W (without HDD), PoE: maximum 25.5W for single	Single AC 100-240V, 50/60 Hz, NVR: Less than 15.2W (without HDD); PoE: maximum 25.5W for single port	Single AC100V-240V, 50-60Hz, NVR: Less than 20W (without HDD)	AC100V-240V, 50-60Hz, Less than 20W (without HDD)
Working Environment	-10°C to +55°C / 0% to 90% RH / 86 to 106 kpa	-10°C to +55°C / 0% to 90% RH / 86 to 106 kpa	-10°C to +55°C / 0% to 90% RH / 86 to 106 kpa	-10°C to +55°C / 0% to 90% RH / 86 to 106 kp
Dimension / Weight	1U 375mm × 327mm × 53mm / 2.6 kg (without HDD)	1U 375mm × 327.5mm × 53mm / 2.7 kg (without HDD)	2U 440mm x 451.08mm x 94.85mm / 9 kg (without HDD)	2U 444mm x 457.08mm x 95mm / 9 kg (without HDD)

			New
Model	INS324KRAID (4T to 48T)	INS644KRAID (4T to 48T)	INS128164K
IP Camera Inputs	32 channels	64 channels	128 channels
Two-way Voice	1 channel Input, 1 channel Output, RCA	1 channel Input, 1 channel Output, RCA	1 channel Input, 1 channel Output, RCA
Interface	2 HDMI, 1 VGA	2 HDMI, 1 VGA	2 HDMI, 1 VGA, 4 HDMI(Optional)
Resolution	3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720, 1024 × 768	3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720, 1024 × 768	3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768
Display	1st screen: 1 / 4 / 8 / 9 / 16 / 25 / 36; 2nd screen: 1 / 4 / 8 / 9 / 16	1st screen: 1 / 4 / 8 / 9 / 16 / 25 / 36; 2nd screen: 1 / 4 / 8 / 9 / 16	1st Screen: 1 / 4 / 8 / 9 / 16 / 25 / 36 2nd Screen: 1 / 4 / 8 / 9 / 16
Recording Mode	Manual, Schedule, (Regular, Motion Detection, Alarm, IVS) Stop	Manual, Schedule, (Regular, Motion Detection, Alarm, IVS) Stop	Manual, Schedule (Regular, Motion Detection, Alarm, IVS), Holiday, Stop
Trigger Events	Recording, PTZ, Tour, Alarm out, Video Push, Email, FTP, Snapshot, Buzzer & Screen tips	Recording, PTZ, Tour, Alarm out, Video Push, Email, FTP, Snapshot, Buzzer & Screen tips	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer & Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22×18), Video Loss & Camera Obscurred	Motion Detection, MD Zones: 396 (22×18), Video Loss & Camera Obscurred	Motion Detection, MD Zones: 396 (22 × 18), Video Loss & Tampering
Alarm Inputs	16 Channel, Low Level Effective, Green Terminal Interface	16 Channel, Low Level Effective, Green Terminal Interface	16 Channel, Low Level Effective, Green Terminal Interface
Relay Outputs	8 Channel, NO/NC Programmable, Green Terminal Interface	8 Channel, NO/NC Programmable, Green Terminal Interface	8 Channel, NO/NC Programmable, Green Terminal Interface
Ethernet Ports	2 Ethernet ports jointly working or 2 Independent 1000 Mbps Ethernet ports	2 Ethernet ports jointly working or 2 Independent 1000 Mbps Ethernet ports	4 Ethernet Ports Joint Working or 4 Independent 1000Mbps Ethernet Ports
Internal HDD	8 SATA III ports, up to 8TB for each HDD	8 SATA III ports, up to 8TB for each HDD	16 SATA III Ports, Up to 8 TB capacity for each HDD
HDD Mode	Single, Raid 0/1/5/6/10 (Enterprise-level HDDs are recommended), Support Global HDD Hot-spare	Single, Raid 0/1/5/6/10 (Enterprise-level HDDs are recommended), Support Global HDD Hot-spare	Single, Raid 0/1/5/6/10 (Enterprise-level HDDs are recommended), Support Global HDD Hot-spare
eSATA	1 eSATA port	1 eSATA port	1eSATA port
Power Supply / Consumption	AC100V-240V, 50-60Hz, Less than 20W (without HDD)	AC100V-240V, 50-60Hz, Less than 20W (without HDD)	AC100V-240V, 50-60Hz Less than 20W (without HDD)
Working Environment	-10°C to +55°C / 0% to 90% RH / 86 to 106 kpa	-10°C to +55°C / 0% to 90% RH / 86 to 106 kpa	-10°C to +55°C / 0% to 90% RH / 86 to 106 kpa
Dimension / Weight	2U 440mm x 451.08mm x 94.85mm / 9 kg (without HDD)	2U 444mm x 457.08mm x 95mm / 9 kg (without HDD)	3U 485mm x 529.9mm x 133.2mm / 19.6kg (without HDD)

4K RAID NVR SELECTION

							New
Model		**INSBO2IRF**	**INSEBO2IRF**	**INSDO2IRF**	**INSDO4IRF**	**INSBO4IRF**	**INSDO6IRWF**
Image Sensor		1/2.9" 2 MP progressive scan CMOS	1/2.9" 2 MP progressive scan CMOS	1/2.9" 2 MP progressive scan CMOS	1/3" 4 MP progressive scan CMOS	1/3" 4 MP progressive scan CMOS	1/2.9" 6 MP STARVIS™ progressive scan CMOS
Effective Pixels		1920(H) x 1080(V)	1920(H) x 1080(V)	1920(H) x 1080(V)	2688(H) x1520(V)	2688(H) x1520(V)	3072(H) x 2048(V)
Minimum Illumination		0.1 Lux/F2.0(Color), 0 Lux/F2.0(IR on)	0.1 Lux/F2.0(Color), 0 Lux/F2.0(IR on)	0.1 Lux/F2.0(Color), 0 Lux/F2.0(IR on)	0.08 Lux/ F2.0(Color), 0 Lux/F2.0(IR On)	0.08 Lux/ F2.0(Color), 0 Lux/F2.0(IR On)	0.04 Lux/F1.6(Color); 0 Lux/F1.6(IR on)
Maximum Length of IR LEDs		30m	30m	30m	30m	30m	30m
Day/Night		Auto (ICR) / Color / B/W	Auto (ICR) / Color / B/W	Auto (ICR) / Color / B/W	Auto(ICR) / Color / B/W	Auto(ICR) / Color / B/W	Auto (ICR) / Color / B/W
Backlight Compensation		BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / WDR(120dB)	BLC / HLC / WDR(120dB)	BLC / HLC / WDR (120dB)
Focal Length / Max. Aperture/ H.Angle		2.8 mm / F2.0 H: 101° - V:57°	2.8mm / F2.0 H: 110° - V:57°	2.8mm / F2.0 H: 110° - V:57°	2.8mm / F2.0 H: 104° - V:57°	2.8mm-3.6mm / F2.0 H: 104° - V:57°	2.8mm / F1.6 H:98° - V:67°
Pan / Tilt / Rotation		Pan:0˚~360˚; Tilt:0˚~90˚ Rotation:0˚~360˚	Pan:0° ~360° ;Tilt:0° ~90° Rotation:0° ~360°	Pan:0°~355°; Tilt:0°~65° Rotation:0°~355°	Pan:0° ~355° ;Tilt:0° ~65° Rotation:0° ~355°	Pan:0° ~360° ;Tilt:0° ~90° Rotation:0° ~360°	Pan:0˚~355˚; Tilt:0˚~65˚ Rotation:0˚~355˚
Focus Control		Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
Lens Type / Mount Type		Fixed / Board-in Type	Fixed / Board-in Type	Fixed / Board-in Type	Fixed / Board-in Type	Fixed / Board-in Type	Fixed lens / Board-in Type
DORI Distance	**Detect**	45m(147ft)	45m(147ft)	45m(147ft)	63m(207ft)	63m(207ft)	69m(226ft)
	Observe	18m(59ft)	18m(59ft)	18m(59ft)	25m(82ft)	25m(82ft)	28m(92ft)
	Recognize	9m(30ft)	9m(30ft)	9m(30ft)	13m(43ft)	13m(43ft)	14m(46ft)
	Identify	5m(16ft)	5m(16ft)	5m(16ft)	6m(20ft)	6m(20ft)	7m(23ft)
Compression		H.264+/H.264	H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Frame Rate	**Main Stream**	2MP (1-25/30fps)	2MP (1-25/30fps)	2MP (1-25/30fps)	4MP(1-20fps) / 3MP(1-25/30fps)	4M(1-20fps) / 3M(1-25/30fps)	6MP(1-20fps) / 4MP(1-25/30fps)
	Sub Stream	D1/CIF(1-25/30fps)	D1/CIF(1-25/30fps)	D1/CIF(1-25/30fps)	D1/CIF(1-25/30fps)	D1/CIF(1-25/30fps)	D1(1-25/30fps)
	Third Stream	N/A	N/A	N/A	N/A	N/A	1080P(1-25/30fps)
Bit Rate		H.264: 24K-8192 Kbps	H.264: 24K-8192 Kbps	H.264:32K-10240Kbps; H.265:12K-6400Kbps	H.264:32K-10240Kbps; H.265:12K-8448Kbps	H.264: 32K-10240Kbps; H.265: 12K-8448Kbps	H.264: 24-10240Kbps H.265: 14-9984Kbps
Ethernet		RJ-45 (10/100Base-T)	RJ-45 (10/100Base -T)	RJ-45 (10/100Base -T)	RJ-45 (10/100Base-T)	RJ-45 (10/100Base-T)	RJ-45 (10/100Base-T)
Audio in/out		N/A	N/A	N/A	N/A	N/A	1/1 channel In/Out
Alarm in/out		N/A	N/A	N/A	N/A	N/A	1 ch In: 5mA 5VDC 1 ch Out: 300mA 12VDC
Memory Slot		N/A	N/A	N/A	Micro SD, Maximum 128GB	N/A	Micro SD, Maximum 128GB
Smart Detection		N/A	N/A	N/A	N/A	N/A	Tripwire, Intrusion, Object Abandoned/Missing, Face detection
Power Supply / Power Consumption		DC12V, PoE (802.3af); Less than 6.4W	DC12V, PoE (802.3af); Less than 5.4W	DC12V, PoE (802.3af); Less than 3.7W	DC12V, PoE (802.3af); Less than 4.6W	DC12V, PoE (802.3af); Less than 5.7W	DC12V, PoE (802.3af); Less than 5.5W
Working Environment		-30°C to +60°C and less than 95% RH	-30°C to +60°C and less than 95% RH	-30°C to +60°C and less than 90% RH	-30°C to 60°C and less than 90% RH	-30°C to 60°C and less than 95% RH	-30°C to +60°C and less than 95% RH
Ingress Protection / Vandal Resistance		IP67; N/A	IP67; N/A	IP67; IK10	IP67; IK10	IP67; N/A	IP67; IK10

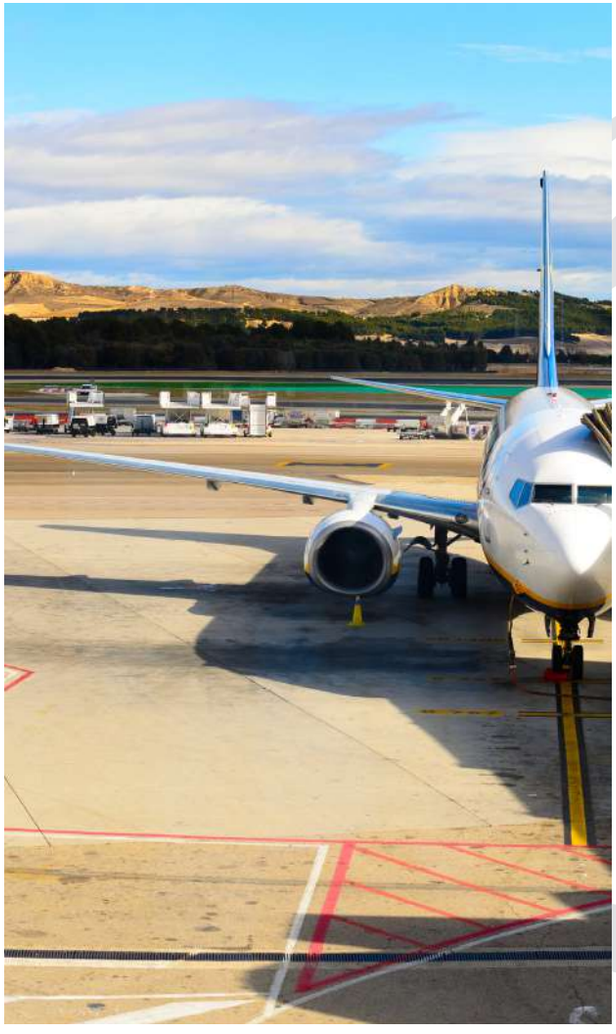
					New	New			
Model		**INSDO2IRWA**	**INSBO2IRWA**	**INSDO2IRSDA**	**INSDO2IRXWA**	**INSDO2IRSLLWA**	**INSWDO2IRWF**	**INSDO2IRWF**	**INSDO2IRWV**
Image Sensor		1/2.8" 2 MP progressive scan CMOS	1/2.7" 2 MP progressive scan CMOS	1/2.8" 2 MP progressive scan CMOS	1/2.8" 2 MP progressive scan CMOS	1/1.9" 2 MP progressive scan CMOS	1/2.8" 2 MP progressive scan CMOS	1/2.8" 2 MP STARVIS™ progressive scan CMOS	1/2.8" 2 MP STARVIS™ progressive scan CMOS
Effective Pixels		1920(H) x 1080(V)	1920(H) x 1080(V)	1920(H) x 1080(V)	1920(H) x 1080(V)	1920(H) x 1080(V)	1920(H) x 1080(V)	1920(H) x 1080(V)	1920(H) x 1080(V)
Minimum Illumination		0.006 Lux/F1.4 (Color); 0 Lux/F1.4 (IR on)	0.1 Lux/F1.4 (Color); 0 Lux/F1.4 (IR on)	0.006 Lux/F1.4 (color); 0 Lux /F1.4 (IR on)	0.005 Lux/F1.4 (Color); 0 Lux/F1.4(IR on)	0.08 Lux/ F2.0(Color), 0 Lux/F2.0(IR On)	0.009 Lux/F2.0 (Color), 0 Lux/F2.0 (IR on)	0.009 Lux/F2.0 (Color), 0 Lux/F2.0 (IR on)	0.006 Lux/F1.4 (color); 0 Lux/F1.4 (IR on)
Maximum Length of IR LEDs		30m	60m	50m	50m	50m	20m	30m	30m
Day/Night		Auto (ICR) / Color / B/W	Auto (ICR) / Color / B/W	Auto (ICR) / Color / B/W	Auto(ICR) / Color / B/W	Auto(ICR) / Color / B/W	Auto (ICR) / Color / B/W	Auto (ICR) / Color / B/W	Auto (ICR) / Color / B/W
Backlight Compensation		BLC / HLC / WDR (120dB)	BLC / HLC / WDR (120dB)	BLC / HLC /WDR (120dB)	BLC / HLC / WDR(140dB) / SSA	BLC / HLC / WDR(120dB) / SSA	BLC / HLC / WDR (120dB)	BLC / HLC / WDR (120dB)	BLC / HLC / WDR (120dB)
Focal Length / Max. Aperture/ H.Angle		2.7mm-13.5mm Auto focus F1.4 / H: 99 ° - V: 52°	2.7mm-12mm Auto focus F1.4 / H: 78° - V:28°	2.7mm-12mm Auto focus F1.4 / H: 97° - V: 52°	2.7mm-12mm Auto focus F1.4 / H: 110° - V: 57°	4.1mm-16.4mm Auto focus F1.53 / H: 92° - V:53 °	2.8mm / F2.0 H: 110° - V:58°	2.8mm / F2.0 H: 110° - V:58°	2.7mm-13.5mm F1.4 / H: 106°- V: 57°
Pan / Tilt / Rotation		Pan:0° ~355° ;Tilt:0° ~75° Rotation:0° ~355°	Pan:0° ~360 ° ;Tilt:0° ~90° Rotation:0° ~360°	Pan:0°~355°; Tilt:0°~65° Rotation:0°~355°	Pan:0°~355°; Tilt:0°~65° Rotation:0°~355°	Pan:0°~355°; Tilt:0°~65° Rotation:0°~355°	Pan:0°~60°; Tilt:0°~80° Rotation:0°~360°	Pan:0°~355°; Tilt:0°~64° Rotation:0°~355°	Pan:0° ~355° ;Tilt:0° ~75° Rotation:0° ~355°
Focus Control		Motorized	Motorized	Motorized	Motorized	Motorized	Fixed	Fixed	Manual
Lens Type / Mount Type		Motorized / Board-in Type	Motorized / Board-in Type	Motorized; Auto Iris (DC) Board-in Type	Motorized; Auto Iris(HALL) Board-in Type	Motorized; Auto Iris(HALL) Board-in Type	Fixed lens / Board-in Type	Fixed lens / Board-in Type	Manual varifocal / Board-in Type
DORI Distance	Detect	W: 46m - T: 153m	W: 47m - T: 129m	W: 48m - T: 133m	W: 49m - T: 125m	W: 57m - T: 137m	44m(144ft)	44m(144ft)	W: 46m - T: 153m
	Observe	W: 18m - T: 61m	W: 19m - T: 51m	W: 19m - T: 53m	W: 20m - T: 50m	W: 23m - T: 55m	17m(56ft)	17m(56ft)	W: 18m - T: 61m
	Recognize	W: 9m - T: 30m	W: 9m - T: 26m	W: 10m - T: 27m	W: 10m - T: 25m	W: 11m - T: 27m	9m(30ft)	9m(30ft)	W: 9m - T: 30m
	Identify	W: 5m - T: 15m	W: 5m - T: 13m	W: 5m - T: 13m	W: 5m - T: 13m	W: 6m - T: 14m	4m(13ft)	4m(13ft)	W: 5m - T: 15m
Compression		H.264+/H.264	H.264+/H.264	H.265+/H.265/ H.264+/H.264	H.265+/H.265/ H.264+/H.264	H.265+/H.265/ H.264+/H.264	H.265+/H.265/ H.264+/H.264	H.265+/H.265/ H.264+/H.264	H.265+/H.265/ H.264+/H.264
Frame Rate	Main Stream	2MP (1-25/30fps)	2M (1-25/30fps)	1080P (1-50/60fps)	1080P(1-50/60fps)	1080P(1-50/60fps)	1080P (1-50/60fps)	1080P (1-50/60fps)	2MP (1-25/30 fps)
	Sub Stream	D1/CIF(1-25/30fps)	D1/CIF(1-25/30fps)	D1(1-50/60fps)	D1 (1-50/60fps)	D1 (1-50/60fps)	D1 (1-50/60fps)	D1 (1-50/60fps)	D1/CIF (1-25/30 fps)
	Third Stream	N/A	N/A	1080P(1-25/30fps)	1080P(1-50/60fps)	1080P(1-50/60fps)	1080P (1-25/30fps)	1080P (1-25/30fps)	N/A
Bit Rate		H264:24K-8192Kbps	H.264: 24K-8192 Kbps	H.264: 24K-9472Kbps; H.265: 14K-5632Kbps	H.264: 24K-10240Kbps; H.265: 14K-6144Kbps	H.264: 32K-10240Kbps; H.265: 12K-8448Kbps	H.264: 24K-9472Kbps; H.265: 14K-5632Kbps	H.264: 24K-9472Kbps; H.265: 14K-5632Kbps	H.264:32K-10240Kbps; H.265:12K-6400Kbps
Ethernet		RJ-45 (10/100Base-T)	RJ-45 (10/100Base -T)	RJ-45 (10/100Base -T)	RJ-45 (10/100Base-T)	RJ-45 (100/1000Base-T)	RJ-45 (10/100 Base-T)	RJ-45 (10/100 Base-T)	RJ-45 (10/100Base-T)
Audio in/out		N/A	N/A	1/1 channel In/Out	1/1 channel In/Out	1/1 channel In/Out	Built-in Mic	N/A	N/A
Alarm in/out		N/A	N/A	1 ch In: 5mA 5VDC 1 ch Out: 300mA 12VDC	1 ch In: 5mA 5VDC 1 ch Out: 1A 30VDC	1 ch In: 5mA 5VDC 1 ch Out: 1A 30VDC	N/A	1 ch In: 5mA 5VDC 1 ch Out: 300mA 12VDC	N/A
Memory Slot		Micro SD, Maximum 128GB	Micro SD, Maximum 128GB	Micro SD, Maximum 128GB	Micro SD, Maximum 128GB	Micro SD, Maximum 128GB	Micro SD, Maximum 128GB	Micro SD, Maximum 128GB	Micro SD, Maximum 128GB
Smart Detection		N/A	N/A	Tripwire, Intrusion, Object Abandoned/Missing	Tripwire, Intrusion, Object Abandoned/Missing, Face Detection, People Counting, Heat Map	Tripwire, Intrusion, Object Abandoned/Missing, Face Detection, People Counting, Heat Map	Tripwire , intrusion, abandoned/missing, scene change, audio detection, face detection	Tripwire , intrusion, abandoned/missing, scene change, audio detection, face detection	N/A
Power Supply / Power Consumption		DC12V, PoE (802.3af); Less than 8.3W	DC12V, PoE (802.3af); Less than 12.95W	DC12V, PoE (802.3af); Less than 12.5W	DC12V, PoE+(802.3at) Less than 18W	DC12V, PoE+(802.3at) Less than 18W	DC12V, PoE (802.3af); Less than 4.5W	DC12V, PoE (802.3af); Less than 5W	DC12V, PoE (802.3af); Less than 6W
Working Environment		-30°C to +60°C and less than 95% RH	-30°C to +60°C and less than 95% RH	-30°C to +60°C and less than 90% RH	-40°C to +60°C and Less than 95% RH	-40°C to +60°C and Less than 95% RH	-30°C to +60°C and less than 95% RH	-30°C to +60°C and less than 95% RH	-30°C to +60°C and less than 95% RH
Ingress Protection / Vandal Resistance		IP67; IK10	IP67; N/A	IP67; IK10	IP67; IK10	IP67; IK10	IP67; IK10	IP67; IK10	IP67; IK10

							New	New
Model		**INSDO4IRWF**	**INSWDO4IRWF**	**INSDO4IRWA**	**INSDO4IRWV**	**INSDO4IRWSA**	**INSDO6IRA**	**INSBO6IRA**
Image Sensor		1/3" 4 MP progressive scan CMOS	1/3" 4 MP progressive scan CMOS	1/3" 4 MP progressive scan CMOS	1/3" 4 MP progressive scan CMOS	1/3" 4 MP progressive scan CMOS	1/1.8" 6 MP STARVIS™ progressive scan CMOS	1/2.9" 6 MP STARVIS™ progressive scan CMOS
Effective Pixels		2688(H) x 1520(V)	2688 (H) x 1520(V)	2688(H) x 1520(V	2688(H) x 1520(V)	2688(H) x 1520(V)	3072(H) x 2048(V)	3072(H) x 2048(V)
Minimum Illumination		0.08 Lux/F2.0 (Color), 0 Lux/F2.0 (IR on)	0.08 Lux/F2.0 (Color), 0 Lux/F2.0 (IR on)	0.03 Lux/F1.4 (Color); 0 Lux/F1.4 (IR on)	0.03 Lux/F1.4(Color); 0 Lux/F1.4(IR on)	0.03 Lux/F1.4(Color); 0 Lux/F1.4(IR on)	0.01 Lux/F1.53(Color) 0 Lux/F1.53(IR on)	0.03 Lux/F1.4 (Color); 0 Lux/F1.4(IR on)
Maximum Length of IR LEDs		30m	20m	50m	30m	30m	50m	50m
Day/Night		Auto (ICR) / Color / B/W	Auto (ICR) / Color / B/W	Auto (ICR) / Color / B/W	Auto(ICR) / Color / B/W	Auto(ICR) / Color / B/W	Auto(ICR) / Color / B/W	Auto (ICR) / Color / B/W
Backlight Compensation		BLC / HLC / WDR (120dB)	BLC / HLC / WDR (120dB)	BLC / HLC / WDR (120dB)	BLC / HLC / WDR (120dB)	BLC / HLC / WDR (120dB)	BLC / HLC / DWDR/ SSA	BLC / HLC / WDR
Focal Length / Max. Aperture/ H.Angle		2.8mm / F2.0 H: 104° - V: 57°	2.8mm / F2.0 H: 104° - V: 57°	2.7mm-12mm Auto focus F1.4 / H: 100°- V: 54°	2.7mm-13.5mm Varifocal F1.4 / H: 104°- V: 55°	2.7mm-13.5mm F1.4 / H: 104°- V: 55°	4.1-16.4mm F1.53 / H:107° - V:60°	2.7mm-13.5mm F1.4 / H:91° - V:58°
Pan / Tilt / Rotation		Pan:0°~355°; Tilt:0°~64° Rotation:0°~355°	Pan:0°~60°; Tilt:0°~80° Rotation:0°~360°	Pan:0°~355°; Tilt:0°~65° Rotation:0°~355°	Pan:0° ~355° ;Tilt:0° ~70° Rotation:0° ~355°	Pan:0° ~355° ;Tilt:0° ~75° Rotation:0° ~355°	Pan:0°~355°; Tilt:0°~65° Rotation:0°~355°	Pan:0°~360°; Tilt:0°~90° Rotation:0°~360°
Focus Control		Fixed	Fixed	Motorized	Manual	Motorized	Motorized	Motorized
Lens Type / Mount Type		Fixed lens / Board-in Type	Fixed lens / Board-in Type	Motorized; Auto Iris (DC) Board-in Type	Manual / Board-in Type	Motorized / Board-in Type	Motorized; Auto Iris(HALL) Board-in Type	Motorized; Auto Iris(DC) Board-in Type
DORI Distance	Detect	63m(207ft)	63m(207ft)	W: 68m - T: 192m	W: 64m - T: 222m	W: 64m - T: 222m	W: 88m - T: 213m	W: 79m - T: 256m
	Observe	25m(82ft)	25m(82ft)	W: 27m - T: 77m	W: 26m - T: 89m	W: 26m - T: 89m	W: 35m - T: 85m	W: 32m - T: 102m
	Recognize	13m(43ft)	13m(43ft)	W: 14m - T: 39m	W: 13m - T: 44m	W: 13m - T: 44m	W: 18m - T: 43m	W: 16m - T: 51m
	Identify	6m(20ft)	6m(20ft)	W: 7m - T: 19m	W: 6m - T: 22m	W: 6m - T: 22m	W: 9m - T: 21m	W: 8m - T: 25m
Compression		H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Frame Rate	Main Stream	4MP(1-25/30fps)	4MP(1-25/30fps)	4MP(1-25/30fps)	4MP(1-20fps), 3MP(1-25/30fps)	4MP(1-20fps), 3MP(1-25/30fps)	6MP(1-25/30fps)	6MP(1-20ps), 4MP(1-25/30fps)
	Sub Stream	D1(1-25/30fps))	D1(1-25/30fps)	D1(1-25/30fps)	D1/CIF(1-20/25fps)	D1/CIF(1-20/25fps)	D1(1~25/30fps)	D1(1~25/30fps)
	Third Stream	720P(1-25/30fps)	720P(1-25/30fps)	720P(1-25/30fps)	N/A	N/A	1080P(1-25/30fps)	720P(1-25/30fps)
Bit Rate		H.264: 24K-10240Kbps H.265: 14K-9984Kbps	H.264: 24K-10240Kbps H.265: 14K-9984Kbps	H.264: 24K-10240Kbps H.265: 14K-9984Kbps	H.264: 32K-10240Kbps H.265: 12K-8448Kbps	H.264: 32K-10240Kbps H.265: 12K-8448Kbps	H.264: 24K-16384Kbps H.265: 14K-9984Kbps	H.264: 24K-10240Kbps H.265: 14K-9984Kbps
Ethernet		RJ-45 (10/100Base-T)	RJ-45 (10/100 Base-T)	RJ-45 (10/100Base-T)	RJ-45 (10/100Base-T)	RJ-45 (10/100Base-T)	RJ-45 (100/1000Base-T)	RJ-45 (10/100Base-T)
Audio in/out		1/1 channel In/Out	Built-in Mic	1/1 channel In/Out	N/A	N/A	1/1 channel In/Out	1/1 channel In/Out
Alarm in/out		1 ch In: 5mA 5VDC 1 ch Out: 300mA 12VDC	N/A	1/1 channel In/Out	N/A	N/A	1 ch In: 5mA 5VDC 1 ch Out: 1A 30VDC	2 ch In: 5mA 5VDC 1 ch Out: 300mA 12VDC
Memory Slot		Micro SD, Maximum 128GB	Micro SD, Maximum 128GB	Micro SD, Maximum 128GB	Micro SD, Maximum 128GB	Micro SD, Maximum 128GB	Micro SD, Maximum 128GB	Micro SD, Maximum 128GB
Smart Detection		Tripwire , intrusion, Abandoned/ missing, scene change, audio detection, face detection	Tripwire , intrusion, Abandoned/ missing, scene change, audio detection, face detection	Tripwire, Intrusion, Object Abandoned/Missing, Face detection	N/A	N/A	Tripwire, Intrusion, Object Abandoned/Missing, Face detection, Heatmap	Tripwire, Intrusion, Object Abandoned/Missing, Face detection
Power Supply / Power Consumption		DC12V, PoE (802.3af); Less than 5W	DC12V, PoE (802.3af); Less than 4.5W	DC12V PoE (802.3af); Less than 12.5W	DC12V PoE (802.3af); Less than 6W	DC12V PoE (802.3af); Less than 8.5W	DC12V, PoE+(802.3at) Less than 18W	DC12V, PoE (802.3af) Less than 12.95W
Working Environment		-30°C to +60°C and less than 95% RH	-30°C to +60°C and less than 95% RH	-30°C to +60°C and less than 95% RH	-30°C to +60°C and less than 95% RH	-30°C to +60°C and less than 95% RH	-40°C to +60°C and less than 95% RH	-30°C to +60°C and less than 95% RH
Ingress Protection / Vandal Resistance		IP67; IK10	IP67; IK10	IP67; IK10	IP67; IK10	IP67; IK10	IP67; IK10	IP67; IK10

			New	New	New
Model		**INSBO2IR30X**	**INSBO6180IRF**	**INSDO8180IRF**	**INSPH2F**
Image Sensor		1/2.8" 2 MP STARVIS™ progressive scan CMOS	Three 1/2.8'' 2 MP STARVIS™ progressive scan CMOS	Four 1/2.8" 2 MP STARVIS™ progressive scan CMOS	1/2.8" 2 MP STARVIS™ progressive scan CMOS
Effective Pixels		1920(H) x 1080(V)	4096(H) x 832(V)	4096(H) x 1800(V)	1920(H) x 1080(V)
Minimum Illumination		0.005 Lux/F1.6(Color); 0 Lux/F1.6(IR on)	0.007 Lux/F1.8(Color), 0 Lux/F1.8(IR on)	0.007 Lux/F2.0(Color), 0 Lux/F2.0(IR on)	0.02 Lux/F2.4(Color), 0.01 Lux/F2.4(B/W)
Maximum Length of IR LEDs		150m	30m	30m	N/A
Day/Night		Auto (ICR) / Color / B/W	Auto (ICR) / Color / B/W	Auto(ICR) / Color / B/W	Electronic
Backlight Compensation		BLC / HLC / WDR (120dB)	BLC / HLC / WDR(120dB)	BLC / HLC / DWDR	BLC / HLC / WDR(120dB)
Focal Length / Max. Aperture/ H.Angle		4.5mm-135mm / Optical zoom 30x F1.6 / H: 67.8° - 2.4°	3.6mm / F1.8 H:180° - V:44°	3.0mm / F2.0 H: 180˚ - V:80˚	2.8mm / F2.4 H:104° - V:59°
Pan / Tilt / Rotation		N/A	Pan: 0° - 360°; Tilt: 0° - 90° Rotation: 0˚ - 360˚	Pan: 0° - 355°; Tilt: 0° - 75° Rotation: ±20˚	N/A
Focus Control		Auto / Manual	Fixed	Fixed	Fixed
Lens Type / Mount Type		N/A	Fixed / Board-in Type	Fixed / Board-in Type	Fixed / Board-in Type
DORI Distance	**Detect**	1862m(6109ft)	52m(171ft)	41m(135ft)	38m(126ft)
	Observe	744m(2441ft)	21m(69ft)	16m(53ft)	15m(50ft)
	Recognize	372m(1220ft)	10m(33ft)	8m(26ft)	8m(25ft)
	Identify	372m(1220ft)	5m(16ft)	4m(13ft)	4m(12ft)
Compression		H.265/H.264 /MJPEG	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Frame Rate	**Main Stream**	1080P/720P(1-50/60fps) 1.3MP(1-25/30fps)	4096x832(1-25/30fps)	4096x1800(1-25fps)	1080P(1-50/60fps)
	Sub Stream	D1/CIF(1-25/30fps)	1024x208(1-25/30fps)	1024x452(1-25/30fps)	D1(1-25/30fps)
	Third Stream	1080P/1.3M/720P/D1/CIF (1-25/30fps)	1280x260(1-25/30fps)	1920x832(1-25/30fps)	1080P(1-25/30fps)
Bit Rate		MJPEG: 5120K-10240Kbps H.265/H.264: 448K-8192Kbps	H.264: 8Kbps-16Mbps H.265: 4Kbps-10Mbps	H.264: 24Kbps-15616Kbps H.265: 9Kbps-9472Kbps	H.264: 24Kbps-9472Kbps H.265: 14Kbps-5632Kbps
Ethernet		RJ-45 (10Base-T/100Base-TX)	RJ-45 (100/1000Base-T)	RJ-45 (100/1000Base-T)	RJ-45 (10/100Base-T)
Audio in/out		1/1 channel In/Out	1/1 channel in/out	1/1 channel In/Out	1/1 channel In/Out
Alarm in/out		2/1 channel In/Out	2 ch In: 5mA 5VDC 1 ch Out: 1A 30VDC / 0.5A 50VAC	2 ch In: 5mA 5VDC 2 ch Out: 1A 30VDC / 0.5A 50VAC	2 ch In: 5mA 5VDC 2 ch Out: 1A 30VDC / 0.5A 50VAC
Memory Slot		Micro SD, Maximum 128GB	Micro SD, Maximum 128GB	Micro SD, Maximum 128GB	Micro SD, Maximum 128GB
Smart Detection		Tripwire, Intrusion,Abandoned/Missing, Face Detection	Tripwire, Intrusion, Object Abandonned/Missing, Face Detection, People Counting, Heatmap, E-PTZ	Tripwire, Intrusion, Object Abandoned/Missing, Heatmap, E-PTZ	Tripwire, Intrusion,Abandoned/Missing, Face Detection
Power Supply / Power Consumption		DC12V/5A; 10W, 50W(IR on)	AC24V, PoE+ (802.3at); Less than 23W	AC24V, PoE+(802.3at) Less than 25.5W	DC12V, PoE(802.3af) Less than 6W
Working Environment		-40°C - +70°C and less than 95% RH	-40°C - +60°C and less than 95% RH	-40° C - +60° C and less than 95% RH	-30° C - +60° C and less than 95% RH
Ingress Protection / Vandal Resistance		IP66; N/A	IP67; IK10	IP67; IK10	N/A; N/A

			New			
Model		**INSDO2PTZ4X**	**INSDO2PTZIR25X**	**INSDO2PTZ30X**	**INSDR2PTZ30X**	**INSDO2PTZ30XT**
Image Sensor		1/2 .7" 2 MP progressive scan CMOS	1/2.8" 2 MP STARVIS™ progressive scan CMOS	1/1.9" 2 MP STARVIS™ progressive scan CMOS	1/2.8" 2 MP STARVIS™ progressive scan CMOS	1/2.8" 2 MP STARVIS™ progressive scan CMOS
Effective Pixels		1920(H) x1080(V)	1920(H) x 1080(V)	1920(H) x 1080(V)	1920(H) x 1080(V)	1920(H) x 1080(V)
Minimum Illumination		0.05 Lux/F1.6 (Color); 0.005 Lux/F1.6 (B/W)	0.005 Lux/F1.6 (Color); 0 Lux/F1.6 (IR on)	0.002 Lux/F1.5 (Color); 0.0002 Lux/F1.5 (B /W)	0.005 Lux/F1.6 (Color); 0.0005 Lux/F1.6 (B/W)	0.005 Lux/F1.6 (Color); 0.0005 Lux/F1.6 (B/W)
Maximum Length of IR LEDs		N/A	150m	N/A	N/A	N/A
Day/Night		Auto (ICR) / Color / B/W	Auto(ICR) / Color / B/W	Auto (ICR) / Color / B/W	Auto(ICR) / Color / B/W	Auto(ICR) / Color / B/W
Backlight Compensation		BLC / HLC / WDR(120dB)	BLC / HLC / WDR(120dB)	BLC / HLC / WDR(120dB)	BLC / HLC / WDR(120dB)	BLC / HLC / WDR(120dB)
Digital Zoom		16x	16x	30x	16x	16x
Focal Length / Max. Aperture / H.Angle		2.7mm - 11mm 4x Optical zoom / F1.6 H: 112.5° - V: 30°	4.8mm - 120mm 25x Optical zoom / F1.6 - F4.4 H: 59.2° - V: 2.4°	6mm-180mm 30x optical zoom / F1.5 - F4.3 H: 61.2° - V: 2.1°	4.5mm-135mm 30x optical zoom / F1.6 - F4.4 H: 67.8° - V: 2.4°	4.5mm-135mm 30x optical zoom / F1.6 - F4.4 H: 67.8° - V: 2.4°
Focus Control		Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
Lens Type / Mount Type		N/A	N/A	N/A	N/A	N/A
DORI Distance	**Detect**	120m(394ft)	1613m(5292ft)	1920m(6299ft)	1862m(6109ft)	1862m(6109ft)
	Observe	48m(157ft)	646m(2119ft)	768m(2520ft)	744m(2441ft)	744m(2441ft)
	Recognize	24m(79ft)	323m(1060ft)	384m(1260ft)	372m(1220ft)	372m(1220ft)
	Identify	12m(39ft)	161m(528ft)	192m(630ft)	186m(610ft)	186m(610ft)
Compression		H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264	H.264 / MJPEG	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Pan / Tilt / Rotation		Pan: 0° - 355°; Tilt: 0° ~ 90°	Pan: 0° - 360° endless; Tilt: -15° - 90°, auto flip 180°	Pan: 0° - 360° endless; Tilt: -20° - 90°,auto flip 180°	Pan: 0° - 360° endless; Tilt: 0° - 90°,auto flip 180°	Pan: 0° - 360° endless; Tilt: 0° - 90°,auto flip 180°
Manual Control Speed		Pan: 0.1° -100° /s; Tilt: 0.1° -60° /s	Pan: 0.1° -160° /s; Tilt: 0.1° -120° /s	Pan: 0.1° -300° /s; Tilt: 0.1° -150° /s	Pan: 0.1° -350° /s; Tilt: 0.1° -250° /s	Pan: 0.1° -350° /s; Tilt: 0.1° -250° /s
Preset Speed		Pan: 100° /s; Tilt: 60° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 600° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s
Presets		300	300	300	300	300
PTZ Mode		8 Tours, Auto Panoramic, auto scan	5 Patterns, 8 Tours, Auto Panoramic , Auto Scan	5 Patterns, 8 Tours, Auto Panoramic, Auto Scan	5 Patterns, 8 Tours, Auto Panoramic, Auto Scan	5 Patterns, 8 Tours, Auto Panoramic, Auto Scan
Speed Setup		Human-oriented focal length / Speed Adaptation	Human-oriented focal length / Speed Adaptation	User defined speed adjustment	Human-oriented focal Length / Speed Adaptation	Human-oriented focal Length / Speed Adaptation
Power up Action		Auto restore to previous PTZ and lens status after power failure	Auto restore to previous PTZ and lens status after power failure	Auto restore to previous PTZ and lens status after power failure	Auto restore to previous PTZ and lens status after power failure	Auto restore to previous PTZ and lens status after power failure
Idle Motion		Active Preset / Pan / Scan / Tour / Pattern (if there is no command in the specified period)	Activate Preset / Scan / Tour / Pattern (if there is no command in the specified period)	Active Preset / Pan / Scan / Tour / Pattern (if there is no command in the specified period)	Activate Preset/ Scan / Tour / Pattern (if there is no command in the specified period)	Activate Preset/ Scan / Tour / Pattern (if there is no command in the specified period)
Smart Detection		Tripwire, Intrusion,Abandoned/Missing, Face Detection	Tripwire, Intrusion,Abandoned/Missing, Face Detection, Heat Map, Auto Tracking	Tripwire, Intrusion,Abandoned/Missing, Face Detection, Heat Map, Auto Tracking	Tripwire, Intrusion,Abandoned/Missing, Face Detection, Heat Map, Auto Tracking	Tripwire, Intrusion,Abandoned/Missing, Face Detection, Heat Map, Auto Tracking
Audio in/out		N/A	1/1 Channel in/out	1/1 Channel in/out	1/1 Channel in/out	1/1 Channel in/out
Alarm in/out		N/A	2/1 Channel in/out	7/2 Channel in/out	2/1 Channel in/out	2/1 Channel in/out
Power Supply / Consumption		DC12V, PoE 10W	AC24V/3A(±10%) 10.5W, 26W (IR on)	AC24V/3A(±25%), PoE+(802.3at) 13W, 20W (Heater on)	AC24V/1.5A(±10%), PoE+(802.3at) 13W	AC24V/1.5A(±10%), PoE+(802.3at) 13W, 23W
Working Environment		-30°C to +60°C and less than 90% RH	-40°C to +60°C and less than 90% RH	-40°C to +70°C and less than 90% RH	-30°C to +60°C and less than 90% RH	-40°C to +60°C and less than 90% RH
Ingress Protection		IP66; IK10	IP66; N/A	IP67; IK10	N/A; IK10	IP67; IK10

Model	INS441N (1T to 8T)	INS881N (1T to 8T)	INS16162N (4T to 16T)	INS3216NVR (4T to 32T)
IP Camera Inputs	4 channels	8 channels	16 channels	32 channels
Interface	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768	3840×2160(4K), 1920×1080, 1280×1024, 1280×720, 1024×768	3840×2160(4K), 1920×1080, 1280×1024, 1280×720, 1024×768	3840×2160, 1920×1080, 1280×1024, 1280×720, 1024×768
Display	1 / 4	1 / 4 / 8 / 9	1 / 4 / 8 / 9 / 16	1 / 4 / 8 / 9 / 16
Compression	H.264+/H.264	H.265/H.264	H.265/H.264	H.265/H.264
Bit Rate	16Kbps ~ 20Mbps Per Channel	16Kbps ~ 20Mbps Per Channel	16Kbps ~ 20Mbps Per Channel	16Kbps ~ 20Mbps Per Channel
Alarm Inputs	N/A	N/A	4 Channel, Low Level Effective, Green Terminal Interface	16 Channel, Low Level Effective, Green Terminal Interface
Relay Outputs	N/A	N/A	2 Channel, NO/NC Programmable, Green Terminal Interface	4 Channel, NO/NC Programmable, Green Terminal Interface
Audio in/out	1/1 Channel in/out , 2-way	1/1 Channel in/out, 2-way	1/1 Channel in/out, 2-way	1/1 Channel in/out, 2-way
PoE	4 ports (IEEE802.3at)	8 ports (IEEE802.3af /at), (We recommend 4Mbps per channel)	16 ports (IEEE802.3at/af)	16 ports (IEEE802.3at/af)
Internal HDD	1 SATA III port, up to 6TB capacity for each HDD	1 SATA III Port, Up to 6 TB capacity for each HDD	2 SATA III Port, Up to 6 TB capacity for each HDD	4 SATA III Port, Up to 6 TB capacity for each HDD
Power Supply / Consumption	DC 48V/1.25A NVR: Less than 4W(without HDD)	DC 48V/2A NVR: Less than 8.3W (without HDD) PoE: Maximum 25.5W (for one port)	AC 100V-240V, 50/60HZ NVR: Less than 13.2W (Without HDD) PoE: Maximum 25.5w for single port	AC 100V-240V, 50/60HZ NVR: <13.7W (Without HDD) PoE: Max 25.5w for single port
Working Environment	-10°C to +55°C / 0%-90%RH / 86-106 kpa	-10°C to +55°C / 10%-90%RH / 86-106 kpa	-10°C to +55°C / 10%-90%RH / 86-106 kpa	-10°C to +55°C / 10%-90%RH / 86-106 kpa
Dimension (W×D×H)	Compact 1U, 260mm × 224.9mm × 47.6mm	Compact 1U, 260mm × 224.9mm × 47.6mm	1U, 375mm × 327.5mm × 53mm	1.5U, 440mm × 411.1mm × 76mm



Model	INS2U7816S (4T to 48T)
IP Video Inputs	16 channels or more if analog are unused
Analog Inputs	16 inputs, BNC
Analog Video Standard	NTSC (525 Line, 60f/s), PAL (625 Line, 50f/s)
Loop Ouputs	16 outputs BNC
Audio Inputs	16 inputs BNC
Audio Outputs	1 outputs, BNC
Interface	2 HDMI, 1 VGA, 1 TV, 1 Spot, BNC
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768
Recording Rate Analog	All channel at 960H (25/30fps)
Bit Rate	IP: 48-8192 Kb/s, Analog: 48-3072Kb/s
Recording Mode	Manual, Scheduled (Regular (Continuous), MD, Alarm), Stop
Recording Interval	1-120 min. (default: 60 min.), Pre-record: 1-30 sec., Post-record: 10-300 sec.
Alarm Inputs	16 channels
Relay Outputs	6 channels
Audio in/out	16 / 1, 2-way
Ethernet	2 RJ-45 ports (10/100M/1000M)
Internal HDD	8 SATA ports (8HDDs or 6HDDs+1CD/DVD-RW), up to 48TB
Power Supply	AC 100-240 V, 50/60 Hz
Power Consumption	40W
Operating Environment	-10°C to +55°C / 10%-90%R H / 86-106 kpa
Dimension (W×D×H)	2U, 440mm × 460mm × 89mm

STORM PLUG & PLAY IP KITS

INS44NVR1TBE

Kit Includes:
1 x 4 channel 1TB NVR
4 x 2.1 MP Eyeball Cameras

INS88NVR2TBE

Kit Includes:
1 x 8 channel 2TB NVR
4 x 2.1 MP Eyeball Cameras

INS168NVR2TBE

Kit Includes:
1 x 16 channel 2TB NVR
4 x 2.1 MP Eyeball Cameras

INS1688N2TE

Kit Includes:
1 x 16 channel 2TB NVR
8 x 2.1 MP Eyeball Cameras

INS44NVR1TBB

Kit Includes:
1 x 4 channel 1TB NVR
4 x 2.1 MP Bullet Cameras

INS88NVR2TBB

Kit Includes:
1 x 8 channel 2TB NVR
4 x 2.1 MP Bullet Cameras

INS168NVR2TBB

Kit Includes:
1 x 16 channel 2TB NVR
4 x 2.1 MP Bullet Cameras

INS1688N2TB

Kit Includes:
1 x 16 channel 2TB NVR
8 x 2.1 MP Bullet Cameras

INS44NVR1TBEB

Kit Includes:
1 x 4 channel 1TB NVR
2 x 2.1 MP Eyeball Cameras
2 x 2.1 MP Bullet Cameras

INS88NVR2TBEB

Kit Includes:
1 x 8 channel 2TB NVR
2 x 2.1 MP Eyeball Cameras
2 x 2.1 MP Bullet Cameras

INS168NVR2TBEB

Kit Includes:
1 x 16 channel 2TB NVR
2 x 2.1 MP Eyeball Cameras
2 x 2.1 MP Bullet Cameras

INS1688N2TEB

Kit Includes:
1 x 16 channel 2TB NVR
4 x 2.1 MP Eyeball Cameras
4 x 2.1 MP Bullet Cameras

Model		**INSBO1IRCF**	**INSEBO1IRCF**	**INSDO1IRCF**	**INSDO1IRCV**	**INSEBO24IRCF**	**INSBO24IRCF**	**INSBO24IRCA**
Image Sensor		1/3" 1 MP progressive scan CMOS	1/3" 1 MP progressive scan CMOS	1/3" 1 MP progressive scan CMOS	1/3" 1 MP progressive scan CMOS	1/2.8" 2.4 MP progressive scan CMOS	1/2.8" 2.4 MP CMOS	1/2.8" 2.4 MP CMOS
Effective Pixels		1280(H) × 720(V)	1280(H)×720(V)	1280(H) × 720(V)	1280(H) × 720(V)	1984(H) × 1225(V)	1984(H) × 1225(V)	1984(H) × 1225(V)
Minimum Illumination		0.05Lux/F2.0(Color); 0Lux/F2.0(IR on)	0.05Lux/F2.0(Color); 0Lux/F2.0(IR on)	0.05Lux/F2.0(Color); 0Lux/F2.0(IR on)	0.05Lux/F1.3(Color); 0Lux/F1.3(IR on)	0.05Lux/F1.8(Color); 0Lux/F1.8(IR on)	0.05Lux/F1.8(Color); 0Lux/F1.8(IR on)	0.05 Lux/F1.2 (AGC ON); 0 Lux (IR on)
Day/Night		Auto (ICR) / Manual	Auto (ICR) / Manual	Auto (ICR) / Manual	Auto (ICR) / Manual	Auto(ICR) / Color / B/W	Auto(ICR) / Color / B/W	Auto(ICR) / Color / B/W
Backlight Compensation		BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR
Video Output		1-channel BNC high definition video output / CVBS video output (Can switch)	1-channel BNC high definition video output / CVBS video output (Can switch)	1-channel BNC high definition video output / CVBS video output (Can switch)	1-channel BNC high definition video output / CVBS video output (Can switch)	1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (Can switch)	1 channel BNC HDCVI high definition video output / CVBS standard definition video output (Can switch)	1 channel BNC HDCVI high definition video output / CVBS standard definition video output (Can switch)
Frame Rate		720P(25-30fps)	720P(25-30fps)	720P(25-30fps)	720P(25-30fps)	720P(25-60fps) 1080P(25-30fps)	720P(25-60fps) 1080P(25-30fps)	720P(25-60fps) 1080P(25-30fps)
Maximum length of IR LEDs		30m, Smart IR	30m, Smart IR	30m, Smart IR	30m, Smart IR	30m, Smart IR	30m, Smart IR	30m, Smart IR
Focal Length / Max. Aperture / H.Angle		2.8mm / F2.0 H: 91.6°	2.8mm H: 91.6°	2.8mm / F2.0 H: 91.6°	2.7-13.5mm / F1.3 H: 91°	2.8mm fixed	2.8mm fixed	2.7-12mm
Lens Type / Mount Type		Fixed Lens / Board-in Type	Fixed Lens / Board-in Type	Fixed Lens / Board-in Type	Varifocal Lens / Board-in Type	Fixed Iris / H: 88°	Fixed Iris / H:88°	Motorized Autofocus / H:99°(34°)
DORI Distance	**Detect**	35m(114ft)	35m(114ft)	35m(114ft)	W: 34m - T: 118m	N/A	N/A	N/A
	Observe	14m(46ft)	14m(46ft)	14m(46ft)	W: 14m - T: 47m	N/A	N/A	N/A
	Recognize	7m(23ft)	7m(23ft)	7m(23ft)	W: 7m - T: 24m	N/A	N/A	N/A
	Identify	3m(11ft)	3m(11ft)	3m(11ft)	W: 3m - T: 12m	N/A	N/A	N/A
Power Supply / Consumption		DC12V±25% Maximum 3.8W	DC12V±25% Maximum 2.8W	DC12V±25% Maximum 2.4W	DC12V±25% Maximum 2.9W	DC 12V±20% Maximum 3.5W	DC 12V±20% Maximum 4.8W	DC12V±10% Maximum 7.5W
Working Environment		-40°C to 60°C and less than 90% RH (no condensation)	-40°C to 60°C and less than 90% RH (no condensation)	-40°C to 60°C and less than 95% RH (no condensation)	-40°C to 60°C and less than 90% RH (no condensation)	-30°C to +60°C and less than 95% RH (no condensation)	-30°C to +60°C and less than 95% RH (no condensation)	-30°C to +60°C and less than 95% RH (no condensation)
Transmission Distance		Over 800m via 75-3 coaxial cable	Over 800m via 75-3 coaxial cable	Over 800m via 75-3 coaxial cable	Over 800m via 75-3 coaxial cable	Over 500m via 75-3 coaxial cable	Over 500m via 75-3 coaxial cable	Over 500m via 75-3 coaxial cable
Ingress Protection / Vandal Resistance		IP67; N/A	IP67; N/A	IP67; IK10	IP67; IK10	IP67; N/A	IP67; N/A	IP67; N/A

Model		**INSWDO2IRWCF**	**INSDO2IRWCF**	**INSDO2IRWCA**	**INSDO2IRUF***	**INSDO2IRUV***	**INSTO2IRUF***
Image Sensor		1/2.7" 2.1 MP progressive scan CMOS	1/2.7" 2.1 MP progressive scan CMOS	1/2.7" 2.1 MP progressive scan CMOS	1/2.7" 2 MP progressive scan CMOS	1/2.7" 2 MP progressive scan CMOS	1/2.7" 2 MP progressive scan CMOS
Effective Pixels		1928(H) × 1088(V)	1928(H) × 1088(V)	1928(H) × 1088(V)	1920(H) × 1080(V)	1920(H) × 1080(V)	1920(H) × 1080(V)
Minimum Illumination		0.03Lux/F2.0(Color); 0Lux/F2.0(IR on)	0.03Lux/F2.0(Color); 0Lux/F2.0(IR on)	0.03Lux/F1.4(Color); 0Lux/F1.4(IR on)	0.02Lux/F2.0(Color); 0Lux/F2.0(IR on)	0.02Lux/F1.3(Color); 0Lux/F1.3(IR on)	0.02Lux/F1.85(Color); 0Lux/F1.85(IR on)
Day/Night		Auto (ICR) / Manual	Auto (ICR) / Manual	Auto (ICR) / Manual	Auto (ICR) / Manual	Auto (ICR) / Manual	Auto (ICR) / Manual
Backlight Compensation		BLC / HLC / WDR(120dB)	BLC / HLC / WDR(120dB)	BLC / HLC / WDR(120dB)	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR
Video Output		1-channel BNC HDCVI high definition video output & 1-channel BNC CVBS video output CVBS tester out	1-channel BNC HDCVI high definition video output & 1-channel BNC CVBS video output CVBS tester out	1-channel BNC HDCVI high definition video output & 1-channel BNC CVBS video output CVBS tester out	1-channel BNC high definition video output / CVBS video output (Can switch)	1-channel BNC high definition video output / CVBS video output (Can switch)	1-channel BNC high definition video output / CVBS video output (Can switch)
Frame Rate		1080P (25;30fps) 720P (25;30;50;60fps)	1080P (25;30fps) 720P (25;30;50;60fps)	1080P (25;30fps) 720P (25;30;50;60fps)	1080P (25;30fps) 720P (25;30;50;60fps)	1080P (25;30fps) 720P (25;30;50;60fps)	1080P (25;30fps) 720P (25;30;50;60fps)
Maximum length of IR LEDs		20m, Smart IR	30m, Smart IR	30m, Smart IR	30m, Smart IR	30m, Smart IR	50m, Smart IR
Focal Length / Max. Aperture / H.Angle		2.8mm H: 90° - V: 115.6°	2.8mm / F2.0 H: 90° - V: 115.6°	2.7-12mm / F1.4 H: 99° - V: 37°	2.8mm / F2.0 H: 115.6°	2.7-13.5mm / F1.3 H: 106° - V:30°	2.8mm / F1.85 H: 103°
Lens Type / Mount Type		Fixed Lens / Board-in Type	Fixed Lens / Board-in Type	Motorized lens / Board-in Type	Fixed Lens / Board-in Type	Vari-focal lens / Board-in Type	Fixed lens / Board-in Type
DORI Distance	**Detect**	40m(132ft)	40m(132ft)	W: 47m - T: 129m	42m(139ft)	W: 45m - T: 148m	42m(139ft)
	Observe	16m(53ft)	16m(53ft)	W: 19m - T: 51m	17m(55ft)	W: 18m - T: 59m	17m(55ft)
	Recognize	8m(26ft)	8m(26ft)	W: 9m - T: 26m	9m(28ft)	W: 9m - T: 30m	9m(28ft)
	Identify	4m(13ft)	4m(13ft)	W: 5m - T: 13m	4m(14ft)	W: 5m - T: 15m	4m(14ft)
Power Supply / Consumption		DC12V±25% Max 3.5W (12V DC, IR on)	12V DC ±25% Max 5.5W (12V DC, IR on)	12V DC ±25% Max 5W (12V DC, IR on)	12V DC ±25% Max 3.2W (12V DC, IR on)	12V DC ±25% Max 3.5W (12V DC, IR on)	12V DC ±25% Max 3.2W (12V DC, IR on)
Working Environment		-30°C to +60°C and less than 90% RH (no condensation)	-30°C to +60°C and less than 90% RH (no condensation)	-30°C to +60°C and less than 90% RH (no condensation)	-40°C to +60°C and less than 90% RH (no condensation)	-40°C yo +60°C and less than 90% RH (no condensation)	-40°C to +60°C and less than 90% RH (no condensation)
Transmission Distance		Over 800m via 75-3 coaxial cable	Over 800m via 75-3 coaxial cable	Over 800m via 75-3 coaxial cable	Over 800m via 75-3 coaxial cable	Over 800m via 75-3 coaxial cable	Over 800m via 75-3 coaxial cable
Ingress Protection / Vandal Resistance		IP67; IK10	IP67; IK10	IP67: IK10	IP67: IK10	IP67; IK10	IP67; N/A

		New	New	New	New	New	New
Model		INSDO4IRCF	INSDO4IRCA	INSDO4IRCV	INSBO4IRCF	INSBO4IRCA	INSDI4HEM
Image Sensor		1/3" 4.1 MP progressive scan CMOS	1/3" 4.1 MP progressive scan CMOS	1/3" 4.1 MP progressive scan CMOS	1/3" 4.1 MP progressive scan CMOS	1/3" 4.1 MP progressive scan CMOS	1/3" 4.1 MP progressive scan CMOS
Effective Pixels		2688(H)×1520(V)	2688(H)×1520(V)	2688(H)×1520(V)	2688(H)×1520(V)	2688(H)×1520(V)	2688(H)×1520(V)
Minimum Illumination		0.03Lux/F2.0(Color); 0Lux/F2.0(IR on)	0.01Lux/F1.3(Color); 0Lux/F1.3(IR on)	0.03Lux/F1.3(Color); 0Lux/F1.3(IR on)	0.03Lux/F2.0(Color); 0Lux/F2.0(IR on)	0.01Lux/F1.3(Color); 0Lux/F1.3(IR on)	0.01Lux/F2.0 (Color); 0.001lux/F2.0(B/W)
Day/Night		Auto (ICR) / Manual	Auto (ICR) / Manual	Auto (ICR) / Manual	Auto (ICR) / Manual	Auto (ICR) / Manual	Auto (Electronic) / Manual
Backlight Compensation		BLC / HLC / DWDR	BLC / HLC / WDR(120dB)	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / WDR(120dB)	BLC / HLC / WDR(120dB)
Video Output		1-channel BNC high definition video output / CVBS video output (Can switch)	1-channel BNC HDCVI high definition video output and 1-channel BNC CVBS video output	1-channel BNC HDCVI high definition video output / CVBS video output (Can switch)	1-channel BNC high definition video output / CVBS video output (Can switch)	1-channel BNC HDCVI high definition video output and 1-channel BNC CVBS video output	1-channel BNC HDCVI high definition video output and 1-channel BNC CVBS video output
Frame Rate		4MP(25/30fps); 1080P(25/30fps); 720P(25/30fps)	4MP(25/30fps); 1080P(25/30fps); 720P(25/30fps)	4MP(25/30fps); 1080P(25/30fps); 720P(25/30fps)	4MP(25/30fps); 1080P(25/30fps); 720P(25/30fps)	4MP(25/30fps); 1080P(25/30fps); 720P(25/30fps)	4MP(25fps)
Maximum length of IR LEDs		30m, Smart IR	30m, Smart IR	30m, Smart IR	80m, Smart IR	60m, Smart IR	N/A
Focal Length / Max. Aperture / H.Angle		2.8mm / F2.0 H: 99.7°	2.7-13.5mm / F1.3 H: 98°	2.7-13.5mm / F1.3 H: 98°	3.6mm / F2.0 H: 84.8°	2.7-13.5mm / F1.3 H: 98°	1.18mm / F2.0 H: 180°
Lens Type / Mount Type		Fixed Lens / Board-in Type	Motorized lens / Board-in Type	Vari-focal lens / Board-in Type	Fixed Lens / Board-in Type	Motorized lens / Board-in Type	Fixed Lens / Board-in Type
DORI Distance	Detect	63m(208ft)	W: 64m - T: 222m	W: 64m - T: 222m	80m(262ft)	W: 64m - T: 222m	24m(77ft)
	Observe	25m(83ft)	W: 26m - T: 89m	W: 26m - T: 89m	32m(105ft)	W: 26m - T: 89m	9m(31ft)
	Recognize	13m(42ft)	W: 13m - T: 44m	W: 13m - T: 44m	16m(53ft)	W: 13m - T: 44m	5m(15ft)
	Identify	6m(21ft)	W: 6m - T: 22m	W: 6m - T: 22m	8m(26ft)	W: 6m - T: 22m	2m(8ft)
Power Supply / Consumption		12V DC ±25% Max 3.6W (12V DC, IR on)	12V DC ±25% Max 7.5W (12V DC, IR on)	12V DC ±25% Max 4.1W (12V DC, IR on)	12V DC ±25% Max 5.2W (12V DC, IR on)	12V DC ±25% Max 11.1W (12V DC, IR on)	12V DC ±25% Max 2.2W (12V DC)
Working Environment		-40°C to +60°C and less than 90% RH (no condensation)	-30°C to +60°C and less than 90% RH (no condensation)	-40°C to +60°C and less than 90% RH (no condensation)	-40°C to +60°C and less than 90% RH (no condensation)	-30°C to +60°C and less than 90% RH (no condensation)	-30°C to +60°C and less than 90% RH (no condensation)
Transmission Distance		Over 700m via 75-3 coaxial cable	Over 700m via 75-3 coaxial cable	Over 700m via 75-3 coaxial cable	Over 700m via 75-3 coaxial cable	Over 700m via 75-3 coaxial cable	Over 700m via 75-3 coaxial cable
Ingress Protection / Vandal Resistance		IP67; IK10	IP67; IK10	IP67; IK10	IP67; N/A	IP67; N/A	N/A; IK10

HDCVI

HIGH-DEFINITION ANALOG HDCVI CAMERAS

*The only way to receive, record and display these cameras are on a 4MP rated DVR

New

Model		INSDO2IRCPTZ25X
Image Sensor		1/2.8" 2 MP STARVIS™ progressive scan CMOS
Effective Pixels		1920(H) x 1080(V)
Scanning System		Progressive
Minimum Illumination		0.05Lux/ F1.6(Color); 0Lux/F1.6(IR On)
Frame Rate		25/30fps at 1080P, 25/30/50/60fps at 720P
Video Output		1-channel BNC high definition video output / CVBS standard definition video output (switchable)
Day/Night		Auto (ICR) / Color / B/W
Backlight Compensation		BLC / HLC / WDR (120dB)
Digital Zoom		16x
Focal Length / Max. Aperture / H.Angle		4.8mm-120mm / F1.6-F4.4 (25x optical zoom) /H: 59.2° - 2.4°
DORI Distance	Detect	1613m(5259ft)
	Observe	646m(2119ft)
	Recognize	323m(1060ft)
	Identify	161m(528ft)
Focus Control		Auto / Manual
Close Focus Distance		100mm - 1000mm
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°,auto flip 180°
Manual Control Speed		Pan: 0.1° ~160° /s; Tilt: 0.1° ~120° /s
Preset Speed		Pan: 240° /s ; Tilt: 200° /s
Preset		300
PTZ Mode		5 Patterns, 8 Tours, Auto Pan, Auto Scan
Speed Setup		Human-oriented focal length/ speed adaptation
Power up Action		Auto restore to previous PTZ and lens status after power failure
Idle Motion		Activate Preset / Pan / Scan / Tour / Pattern (if there is no command in the specifed period)
IR Distance		150m
RS485		1/1 Channel in/out
Audio in/out		1/1 Channel in/out
Alarm in/out		2/1 Channel in/out
Power Supply / Consumption		AC24V/3A(±10%) 13W,23W (IR on)
Working Environment		-40°C to +60°C and less than 90% RH
Ingress Protection / Vandal Resistance		IP66; N/A

STORM PLUG & PLAY HDCVI KITS

INSK44CV1TE

Kit Includes:
1 x 4 channel 1TB DVR
4 x 1 MP Eyeball Cameras

INSK84CV1TE

Kit Includes:
1 x 8 channel 1TB DVR
4 x 1 MP Eyeball Cameras

INSK842CV2TE

Kit Includes:
1 x 8 channel 2TB UVR
4 x 2 MP Eyeball Cameras

INSK168CV2TE

Kit Includes:
1 x 16 channel 2TB UVR
8 x 1 MP Eyeball Cameras

INSK44CV1TB

Kit Includes:
1 x 4 channel 1TB DVR
4 x 1 MP Bullet Cameras

INSK84CV1TB

Kit Includes:
1 x 8 channel 1TB DVR
4 x 1 MP Bullet Cameras

INSK842CV2TB

Kit Includes:
1 x 8 channel 2TB UVR
4 x 2 MP Bullet Cameras

INSK168CV2TB

Kit Includes:
1 x 16 channel 2TB UVR
8 x 1 MP Bullet Cameras

INK44CV1TEB

Kit Includes:
1 x 4 channel 1TB DVR
2 x 1 MP Eyeball Cameras
2 x 1 MP Bullet Cameras

INSK84CV1TEB

Kit Includes:
1 x 8 channel 1TB DVR
2 x 1 MP Eyeball Cameras
2 x 1 MP Bullet Cameras

INSK842CV2TEB

Kit Includes:
1 x 8 channel 2TB UVR
2 x 2 MP Eyeball Cameras
2 x 2 MP Bullet Cameras

INK168CV2TEB

Kit Includes:
1 x 16 channel 2TB UVR
4 x 1 MP Eyeball Cameras
4 x 1 MP Bullet Cameras

			New	New
Model	INS4CCVI	INS8CCVI	INS814MDVR	INS1624MDVR
IP Camera Inputs	2 Channels, each channel up to 1080P	8+4 Channels, each channel up to 5MP	8+4 Channels, each channel up to 8MP	16+8 Channel, each channel up to 8MP
Analog Camera Inputs	NTSC/PAL	NTSC/PAL	N/A	N/A
HDCVI Camera Inputs	4 Channels	8 Channels	8 Channels	16 Channels
Audio In/Out	1/1 Channel in/out, RCA	1/1 Channel in/out, RCA	1/1 Channel in/out, RCA	1/1 Channel in/out, RCA
Alarm In/Out	N/A	N/A	N/A	N/A
Interface	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI(up to 3840x2160),1 VGA	1 HDMI(up to 3840x2160),1 VGA
Compression	H.264	H.264	H.264+/H.264	H.264+/H.264
Multi-screen Display	1/4	1/4/8/9	1/4/8/9/16	1/4/8/9/16/25
Bit Rate	96Kb/s ~ 4096Kb/s Per Channel	96Kb/s ~ 4096Kb/s Per Channel	1Kbps ~ 12288Kbps Per Channel	1Kbps ~ 12288Kbps Per Channel
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis
Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Relay Outputs	N/A	N/A	N/A	N/A
Ethernet	RJ-45 port (10/100M)	RJ-45 port (10/100M)	1 RJ-45 Port (1000M)	1 RJ-45 Port (1000M)
Internal HDD	1 SATA port, up to 6TB for each HDD	1 SATA port, up to 6TB for each HDD	1 SATA Port, up to 8TB for each HDD	2 SATA Ports, up to 8TB capacity for HDD
Power Supply	DC12V/2A Less than 10W (without HDD)	DC12V/2A Less than 10W (without HDD)	DC12V/2A Less than 15W (without HDD)	DC12V/5A Less than 15W (without HDD)
Operating Environment	-10°C to +55°C / 0%-90%RH	-10°C to +55°C / 10%-90%RH	-10°C to +55°C / 0-90% RH	-10°C to +55°C / 0-90% RH
Dimensions (W x D x H)	Mini 1U, 325mm × 255mm × 55mm	Mini 1U, 325mm × 255mm × 55mm	Mini 1U, 325mm × 255mm × 55mm	1U, 375mm × 287mm × 53mm

Model	INS41UVR (1T to 8T)	INS81UVR (1T to 8T)	INS161UVR (1T to 8T)	INS324CVI	INS328CVI
IP Camera Inputs	4+2 Channels, each channel up to 5MP	8+4 Channels, each channel up to 5MP	16+8 Channels, each channel up to 5MP	24 Channels, each channel up to 1080P	32 Channels, each channel up to 1080P
Analog Camera Inputs	4 Channels, BNC	8 Channels, BNC	16 Channels, BNC	NTSC/PAL	NTSC/PAL
HDCVI Frame Rate	4MP, 1080P at 25/30fps, 720P at 50/60fps, 720P at 25/30fps	4MP, 1080P at 25/30fps, 720P at 50/60fps, 720P at 25/30fps	4MP, 1080P at 25/30fps, 720P at 50/60fps, 720P at 25/30fps	1080P at 1/15fps 720P at 25/30fps	1080P at 1/15fps 720P at 25/30fps
Audio In/Out	1/1 Channel in/out, RCA	1/1 Channel in/out, RCA	1/1 Channel in/out, RCA	4/1 Channels in/out, BNC	4/1 Channels in/out, BNC
Alarm In/Out	N/A	N/A	N/A	16/6 Channels in/out	16/6 Channels in/out
Interface	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	2 HDMI, 1 VGA, 1 TV	2 HDMI, 1 VGA, 1 TV
Compression	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264	H.264
Multi-screen Display	IP extension mode disabled: 1/4 IP extension mode enabled: 1/4/6	IP extension mode disabled: 1/4/8/9 IP extension mode enabled: 1/4/8/9/16	IP extension mode disabled: 1/4/8/9/16 IP extension mode enabled: 1/4/8/9/16/25	1/4/8/9/16/25	1/4/8/9/16/25/36
Bit Rate	1Kbps ~ 6144Kbps Per Channel	1Kbps ~ 6144Kbps Per Channel	1Kbps ~ 6144Kbps Per Channel	48Kb/s ~ 4096Kb/s Per Channel	48Kb/s ~ 4096Kb/s Per Channel
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank
Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	Recording, PTZ, Tour, Alarm out, Video Push, Email, FTP, Snapshot, Buzzer and Screen tips	Recording, PTZ, Tour, Alarm out, Video Push, Email, FTP, Snapshot, Buzzer and Screen tips
Relay Outputs	N/A	N/A	N/A	N/A	N/A
Ethernet	1 RJ-45 Port (100M)	1 RJ-45 Port (100M)	1 RJ-45 Port (1000M)	RJ-45 port (10/100M/1000M)	RJ-45 port (10/100M/1000M)
Internal HDD	1 SATA Port, up to 8TB for each HDD	1 SATA Port, up to 8TB for each HDD	1 SATA Port, up to 8TB for each HDD	4 SATA ports, up to 6TB for each HDD 1 eSATA port	4 SATA ports, up to 6TB for each HDD 1 eSATA port
Power Supply	DC12V/2A Less than 10W (without HDD)	DC12V/2A Less than 10W (without HDD)	DC12V/2A Less than 10W (without HDD)	AC 100~240 V, 50/60 Hz 40W (without HDD)	AC 100~240 V, 50/60 Hz 40W (without HDD)
Operating Environment	-10°C to +55°C / 0%-90%RH	-10°C to +55°C / 10%-90%RH	-10°C to +55°C / 0-90% RH	-10°C to +55°C / 0-90% RH	-10°C to +55°C / 0-90% RH
Dimensions (W x D x H)	Mini 1U, 325mm × 255mm × 55mm	Mini 1U, 325mm × 255mm × 55mm	Mini 1U, 325mm × 255mm × 55mm	1.5U, 440mm × 416mm × 68mm	1.5U, 440mm × 416mm × 68mm

ACCESSORIES

INSBO2IRF	INSX134	INSX134 & INSX150 & INSX151
	Junction Box	Pole

INSEBO2IRF	INSX136	INSX203	INSX203 & INSX152
	Junction Box	Wall	Pole

INSDO2IRF	INSX136	INSX203	INSX203 & INSX152	INSX200W & INSX152
	Junction Box	Wall	Pole	Pole

INSDO4IRF	INSX136	INSX203	INSX203 & INSX152	INSX200W & INSX152
	Junction Box	Wall	Pole	Pole

INSBO4IRF	INSX134	INSX134 & INSX150 & INSX151
	Junction Box	Pole

ACCESSORIES

INSWDO2IRWF	INSX139	INSX204	INSX152
	Junction Box	Wall	Pole

INSDO2IRWF	INSX136	INSX203	INSX203 & INSX152	INSX200W & INSX152
	Junction Box	Wall	Pole	Pole

INSDO2IRWV	INSX137	INSX203	INSX203 & INSX152	INSX200W & INSX152	INSX200C
	Junction Box	Wall	Pole	Pole	Ceiling

INSDO2IRSDA	INSX138	INSX201C	INSX138 & INSX150	INSX101 & INSX302 & INSX152
	Junction Box	Ceiling	Pole	Pole

INSDO2IRWA	INSX137	INSX203	INSX203 & INSX152	INSX200W & INSX152	INSX200C
	Junction Box	Wall	Pole	Pole	Ceiling

ACCESSORIES

INSBO2IRWA	INSX134	INSX134 & INSX150	INSX134 & INSX151
	Junction Box	Pole	Pole

INSDO2PTZ4X	INSX137	INSX203	INSX203 & INSX152	INSX137 & INSX151	INSX200C
	Junction Box	Wall	Pole	Pole	Ceiling

INSWDO4IRWF	INSX139	INSX204	INSX152
	Junction Box	Wall	Pole

INSDO4IRWF	INSX136	INSX203	INSX203 & INSX152	INSX200W & INSX152
	Junction Box	Wall	Pole	Pole

INSDO4IRWV	INSX137	INSX203	INSX203 & INSX152	INSX200W & INSX152	INSX200C
	Junction Box	Wall	Pole	Pole	Ceiling

ACCESSORIES

INSDO4IRWSA	INSX137	INSX203	INSX203 & INSX152	INSX200C
	Junction Box	Wall	Pole	Ceiling

INSDO4IRWA	INSX138	INSX201C	INSX138 & INSX150	INSX101 & INSX302 & INSX152
	Junction Box	Ceiling	Pole	Pole

INSDO5HEM	INSX203	INSX203 & INSX152
	Wall	Pole

INSDO6IRHEM	INSX100 & INSX302	INSX100 & INSX302 & INSX152	INSX100 & INSX300
	Wall	Pole	Ceiling

INSDO12IRHEM	INSX100 & INSX302	INSX100 & INSX302 & INSX152	INSX100 & INSX300
	Wall	Pole	Ceiling

ACCESSORIES

INSBO2IR30X	INS12VDC5A	INSX602
	Power Supply	Wall

INSDO2PTZ30XT	INSX300S	INSX140	INSX120	INSX300 & INSX110	INSX150	INSX151	INSX110 & INSX302
	Wall - Included	Power Box	Junction Box	Ceiling	Pole	Corner	Parapet

INSDO2PTZ30X	INSX69F	INSX111	INSX140	INSX120	INSX111 & INSX300	INSX150	INSX151
	Wall - Included	Adapter - Included	Power Box	Junction Box	Ceiling	Pole	Corner

INSDO2PTZIR25X	INSX64FB	INSX114 & INSX300	INSX150	INSX151	INSX140	INSX120	INSX114 & INSPARA
New							
	Wall - Included	Ceiling	Pole	Corner	Power Box	Junction Box	Parapet

INSDO2IRSLLWA	INSX138	INSX201C	INSX138 & INSX150	INSX101 & INSX302 & INSX152
	Junction Box	Ceiling	Pole	Pole

ACCESSORIES

INSDO4KIRF	INSX136	INSX203	INSX203 & INSX152	INSX200W & INSX152
	Junction Box	Wall	Pole	Pole

INSBO4KIRF	INSX121	INSX151	INSX121 & INSX152
	Junction Box	Corner	Pole

INSDO4KIRA	INSX138	INSX201C	INSX138 & INSX150	INSX101 & INSX302 & INSX152
	Junction Box	Ceiling	Pole	Pole

INSDO2IRXWA	INSX138	INSX201C	INSX138 & INSX150	INSX101 & INSX302 & INSX152
New				
	Junction Box	Ceiling	Pole	Pole

INSDO8180IRF	INSX111 & INSX300	INSX150	INSX151	INSX140	INSX120	INSX111 & INSPARA
New						
	Ceiling	Pole	Corner	Junction Box	Junction Box	Parapet

INSBO6IRA	INSX121	INSX121 & INSX152
New		
	Junction Box	Pole

INSDO6IRA	INSX138	INSX201C	INSX138 & INSX150	INSX101 & INSX302 & INSX152
New				
	Junction Box	Ceiling	Pole	Pole

INSDO6IRWF	INSX136	INSX203	INSX203 & INSX152	INSX200W & INSX152
	Junction Box	Wall	Pole	Pole

INSDR2PTZ30X	
	N/A
	Accessories

INSPH2F	
New	N/A
	Accessories

INSBO6180IRF	INSX120	INSX120 & INSX150 & INSX151
New		
	Junction Box	Pole

INSBO24IRCF	INSX134	INSX134 & INSX150
	Junction Box	Pole

INSEBO1IRCF	INSX121	INSX152	INSX204
	Junction Box	Pole	Wall

INSDO1IRCF	INSX136	INSX203	INSX203 & INSX152	INSX200W & INSX152
	Junction Box	Wall	Pole	Pole

INSDO1IRCV	INSX137	INSX203	INSX203 & INSX152	INSX200W & INSX152	INSX200C
	Junction Box	Wall	Pole	Pole	Ceiling

INSDO2IRUF	INSX136	INSX203	INSX203 & INSX152	INSX200W & INSX152
	Junction Box	Wall	Pole	Pole

INSTO2IRUF	INSX139	INSX204	INSX204 & INSX152
	Junction Box	Wall	Pole

INSDO2IRUV	INSX137	INSX203	INSX203 & INSX152	INSX200W & INSX152	INSX200C
	Junction Box	Wall	Pole	Pole	Ceiling

INSBO24IRCF	INSX134	INSX134 & INSX150
	Junction Box	Pole

INSBO24IRCA	INSX134	INSX134 & INSX150	INSX134 & INSX151
	Junction Box	Pole	Pole

INSDO2IRCPTZ25X	INSX64FB	INSX114 & INSX300	INSX150	INSX151	INSX140	INSX120	INSX114 & INSPARA
New							
	Wall - Included	Ceiling	Pole	Corner	Junction Box	Junction Box	Parapet

INSWDO2IRWCF	INSX139	INSX204	INSX152
	Junction Box	Wall	Pole

INSDO2IRWCF	INSX136	INSX203	INSX203 & INSX152	INSX200W & INSX152
	Junction Box	Wall	Pole	Pole

INSEBO24IRCF	INSX121	INSX152	INSX204
	Junction Box	Pole	Wall

INSBO1IRCF	INSX134	INSX134 & INSX150
	Junction Box	Pole

INSDO4IRCA/CV	INSX137	INSX203	INSX203 & INSX152	INSX200W & INSX152	INSX200C
New					
	Junction Box	Wall	Pole	Pole	Ceiling

INSDO4IRCF	INSX136	INSX203	INSX203 & INSX152	INSX200W & INSX152
New				
	Junction Box	Wall	Pole	Pole

INSBO4IRCA	INSX135	INSX122	INSX152	INSX151
New				
	Junction Box	Junction Box	Pole	Corner

INSBO4IRCF	INSX135	INSX122	INSX152	INSX151
New				
	Junction Box	Junction Box	Pole	Corner

INSDI4HEM	INSX203	INSX203 & INSX152
New		
	Wall	Pole

ACCESSORIES

Model	INSX64FB	INSX300S	INSX100	INSX101	INSX110	INSX111	INSX300
Description	Wall Mount	Wall Mount	Adapter	Mount	Mount Adapter	Mount Adapter	Ceiling Mount
Compatible With Models	INSDO2IRCPTZ25X INSDO2PTZIR25X	INSDO2PTZ30XT	INSDO6IRHEM INSDO12IRHEM	INSDO4IRWA INSDO2IRSDA INSDO4KIRA INSDO2IRSLLWA INSDO2IRXWA INSDO6IRA	INSDO6IRHEM INSDO12IRHEM INSDO2PTZ30XT	INSDO2PTZ30X INSDO8180IRF	INSDO6IRHEM INSDO12IRHEM INSDO2PTZ30XT INSDO2PTZIR25X INSDO2IRCPTZ25X INSDO2PTZ30X INSDO8180IRF

Model	INSX134	INSX135	INSX136	INSX137	INSX138	INSX139	INSX121	INSX122
Description	Junction Box	Junction Box	Junction Box	Junction Box	Junction Box	Junction Box	Junction Box	Junction Box
Compatible With Models	INSBO2IRF INSBO4IRF INSBO2IRWA INSBO1IRCF INSBO24IRCF INSBO24IRCA	INSBO4IRCF INSBO4IRCA	INSDO2IRF INSDO4IRF INSDO2IRWF INSDO4IRWF INSDO4KIRF INSDO1IRCF INSDO2IRUF INSDO2IRWCF INSEBO2IRF INSDO4IRCF	INSDO2IRWV INSDO2IRWA INSDO4IRWV INSDO4IRWSA INSDO4IRCV INSDO1IRCV INSDO2IRUV INSDO2PTZ4X	INSDO4IRWA INSDO2IRSDA INSDO4KIRA INSDO2IRSLLWA INSDO2IRXWA INSDO6IRA	INSWDO2IRWF INSWDO4IRWF INSWDO2IRWCF INSTO2IRUF	INSBO4KIRF INSEBO1IRCF INSEBO24IRCF INSBO6IRA	INSBO4IRCA INSBO4IRCF

ACCESSORIES

Model	INSX150	INSX151	INSX152	INSX203	INSX204	INSX302	INSPARA
Description	Pole	Corner	Pole	Wall	Wall	Wall	Wall
Compatible With Models	INSDO6IRHEM INSDO12IRHEM INSBO2IRF, INSDO4IRWA INSBO4IRF, INSBO1IRCF INSBO24IRCF, INSBO2IRWA INSBO24IRCA, INSBO2IR30X INSDO2PTZ30XT, INSDO2IRSLLWA INSDO2PTZIR25X, INSDO4KIRA INSDO2IRCPTZ25X, INSDO8180IRF INSDO2PTZ30X, INSDO6IRA INSBO6180IRF	INSBO2IRF, INSBO4IRF INSBO2IRWA, INSDO2PTZ4X INSDO2PTZ30XT, INSDO2PTZ30X INSDO2PTZIR25X, INSBO4KIRF INSDO8180IRF, INSBO6180IRF INSBO24IRCA, INSDO2IRCPTZ25X INSBO4IRCA, INSBO4IRCF	INSEBO2IRF, INSDO2IRF INSDO4IRF, INSWDO2IRWF INSDO2IRWF, INSDO2IRWV INSDO2IRSDA, INSDO2IRWA INSDO2PTZ4X, INSWD04IRWF INSDO4IRWF, INSDO4IRWV INSDO4IRWSA, INSDO4IRWA INSDO5HEM, INSDO4KIRF INSBO4KIRF, INSDO4KIRA INSDO2IRXWA, INSBO6IRA INSDO6IRA, INSDO6IRWF INSEBO1IRCF, INSDO1IRCF INSDO1IRCV, INSDO2IRUF INSDO2IRUV, INSTO2IRUF INSWDO2IRWCF, INSDO2IRWCF INSEBO24IRCF, INSDO4IRCV INSDO4IRCF, INSBO4IRCA INSBO4IRCF, INSDI4HEM	INSEBO2IRF, INSDO2IRF INSDO4IRF, INSDO2IRWF INSDO2IRWV, INSDOIRWA INSDO2PTZ4X, INSDO4IRWF INSDO4IRWV, INSDO4IRWSA INSDO5HEM, INSDO4KIRF INSDO6IRWF, INSDO1IRCF INSDO1IRCV, INSDO2IRUF INSDO2IRUV, INSDO2IRWCF INSDO4IRCV, INSDO4IRCF INSDI4HEM	INSWDO2IRWF INSWDO4IRWF INSEBO1IRCF INSTO2IRUF INSWDO2IRWCF INSEBO24IRCF	INSDO2IRSDA INSDO4IRWA INSDO2PTZ30XT INSDO2IRSLLWA INSDO4KIRA INSDO2IRXWA INSDO6IRA INSDO6IRHEM INSDO12IRHEM	INSDO2PTZIR25X INSDO8180IRF INSDO2IRCPTZ25X

Model	INSX120	INSX140	INSX200C	INSX201C	INSX200W	INSX413	INSX602
Description	Junction Box	Junction Box	Ceiling	Ceiling	Rain Shade	Dual-Wall	Wall
Compatible With Models	INSDO2PTZ30XT INSDO2PTZ30X INSDO2PTZIR25X INSDO8180IRF INSBO6180IRF INSDO2IRCPTZ25X	INSDO2PTZ30XT INSDO2PTZ30X INSDO2PTZIR25X INSDO8180IRF INSDO2IRCPTZ25X	INSDO2IRWV INSDO2IRWA INSDO2PTZ4X INSDO4IRWV INSDO4IRWSA INSDO1IRCV INSDO2IRUV INSDO4IRCV	INSDO2IRSDA INSDO4IRWA INSDO2IRSLLWA INSDO4KIRA INSDO2IRXWA INSDO6IRA	INSDO2IRF, INSDO4IRF, INSDO2IRWA INSDO2IRWF, INSDO2IRWV, INSDO4IRWF INSDO4KIRF, INSDO6IRWF, INSDO1IRCF INSDO1IRCV, INSDO2IRUF, INSDO2IRUV INSDO2IRWCF, INSDO4IRCV, INSDO4IRCF INSDO4IRWV, INSDO4IRWSA	INSDO6180IRF INSBO8180IRF INSDO2PTZ30X INSDO2PTZ30XT INSDO2PTZIR25X	INSBO2IR30X

Model	INSXBALUN	INSXBALUN10
Description	HDCVI BALUN 1 PAIR	HDCVI BALUN 10 PAIRS
Features	Category Type: UTP CAT 5E/6 Resolution: 720P/ 1080P Transmission Signal: 1 channel Compatible Format: HDCVI Dimension: 53mm x 20mm x 17mm Coax: BNC-M	Category Type: UTP CAT 5E/6 Resolution: 720P/ 1080P Transmission Signal: 1 channel Compatible Format: HDCVI Dimension: 53mm x 20mm x 17mm Coax: BNC-M

12VDC POWER SUPPLIES

Model	SW1205-4CB	SW1205-8CB	SW1210-8CB	SW1210-16CB
Power output	120VAC input into 12VDC at 5.5 amps of continuous supply current	120VAC input into 12VDC at 5.5 amps of continuous supply current	120VAC input into 12VDC at 11 amps of continuous supply current	120VAC input into 12VDC at 11 amps of continuous supply current
Outputs	4 separate outputs	8 separate outputs	8 separate outputs	16 separate outputs
Features	Designed for quick installation Individually protected, electronically fused outputs Built in battery backup/charger on selected models Short circuit isolation technology for uninterrupted operation Class 2, Power limited outputs Removable output terminal blocks for quick installation Diagnostic LEDs for quick troubleshooting Automatic switch over to stand-by battery AC line cord included Lifetime warranty	Designed for quick installation Individually protected, electronically fused outputs Built in battery backup/charger on selected models Short circuit isolation technology for uninterrupted operation Class 2, Power limited outputs Removable output terminal blocks for quick installation Diagnostic LEDs for quick troubleshooting Automatic switch over to stand-by battery AC line cord included Lifetime warranty	Designed for quick installation Individually protected, electronically fused outputs Built in battery backup/charger on selected models Short circuit isolation technology for uninterrupted operation Class 2, Power limited outputs Removable output terminal blocks for quick installation Diagnostic LEDs for quick troubleshooting Automatic switch over to stand-by battery AC line cord included Lifetime warranty	Designed for quick installation Individually protected, electronically fused outputs Built in battery backup/charger on selected models Short circuit isolation technology for uninterrupted operation Class 2, Power limited outputs Removable output terminal blocks for quick installation Diagnostic LEDs for quick troubleshooting Automatic switch over to stand-by battery AC line cord included Lifetime warranty

IN-41POE

4 - Port PoE Switch with Gigabit Uplink

Features
- Layer 2 industrial PoE switch
- Supports IEEE802.3af, IEEE802.3at standards
- Conforms to IEEE802.3, IEEE802.3u, IEEE802.3ab/z and IEEE802.3X standards
- Industrial design supporting a wide temperature range

Model	IN-41POE
Ethernet port	1*100/1000 Base-X (SFP) 1*10/100/1000 Base-T 4*10/100 Base -T(PoE power supplied)
PoE power consumption	Each port ≤ 30W, total power budget ≤ 60W
PoE protocol	IEEE802.3af,IEEE802.3at
Exchange mode	Store & forward
Operating Humidity	10%-90% (no condensing)
Power	By default: 53VDC power adapter
Operating Temperature	- 30°C to +65°C
Weight	480g
Dimension (L x W x H)	150mm × 100mm × 30mm
Mount	DIN-RAIL

IN-81POE

8 - Port PoE Switch with Gigabit Uplink

Features
- Layer 2 industrial PoE switch
- Supports IEEE802.3af, IEEE802.3at standards
- Conforms to IEEE802.3, IEEE802.3u, IEEE802.3ab/z and IEEE802.3X standards
- Industrial design supporting a wide temperature range

Model	IN-81POE
Ethernet port	1*100/1000 Base-X (SFP) 1*10/100/1000 Base-T 8*10/100 Base -T(PoE power supplied)
PoE power consumption	Each port ≤ 30W, total power budget ≤ 60W
PoE protocol	IEEE802.3af,IEEE802.3at
Exchange mode	Store & forward
Operating Humidity	10%-90% (no condensing)
Power	By default: 53VDC power adapter
Operating Temperature	- 30°C to +65°C
Weight	540g
Dimension (L x W x H)	150mm × 100mm × 42mm
Mount	DIN-RAIL

IN-882POE

8 - Port 10M/100M PoE+ and 2 Combo Gigabit UTP port/SFP Fast Ethernet Switch

Features
- 19" Rack-Mount
- IEEE 802.3at
- Internal Power Supply

Model	IN-882POE
Ethernet port	8-port PoE+ 2 Gigabit Combo Ports RJ45/ SFP
PoE power consumption	30 W Max Per Port 8 Ports at Full 30 W Output Supported; 260W power budget
PoE protocol	IEEE 802.3at IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3ab 1000BaseT IEEE 802.3x Flow control
Exchange mode	Store & forward
Operating Humidity	10%-90% (no condensing)
Power	100-240V/AC, 50-60Hz
Operating Temperature	0 to 45°C
Weight	3.8 kg
Dimension (L x W x H)	440 × 220 × 44 mm
Mount	1U rackmount with adapters

IN-162POEWM

16 - Port PoE Switch with Gigabit Uplink

Features
- Two-Layer PoE switch with network management
- Supports IEEE802.3af, IEEE802.3at standards
- Conforms to IEEE802.3, IEEE802.3u, IEEE 802.3ab/z and IEEE802.3X standards
- Supports one-key recovery of IP address & user password

Model	IN-162POEWM
Ethernet port	2*10/100/1000 Base-T 16*10/100 Base -T (PoE power supplied)
PoE power consumption	Each port ≤ 30W, total power budget ≤ 250W
PoE protocol	IEEE802.3af,IEEE802.3at
Exchange mode	Store & forward
Operating Humidity	10%-90% (no condensing)
Power	100 - 240V CA
Operating Temperature	- 10°C to +55°C
Weight	2.69 kg
Dimension (L x W x H)	442mm × 124mm × 44.5mm
Mount	Rackmount with adapters

IN-242POEWM

24 - Port PoE Switch with Gigabit Uplink

Features
- Two-layer network management PoE switch
- Supports IEEE802.3af, IEEE802.3at standards
- Supports spanning tree protocol STP/RSTP
- Conforms to IEEE802.3, IEEE802.3u, IEEE802.3ab/z and IEEE802.3X standards
- Supports one-key recovery of IP address & user password

Model	IN-162POEWM
Ethernet port	2*10/100/1000 Base-T 16*10/100 Base -T (PoE power supplied)
PoE power consumption	Each port ≤ 30W, total power budget ≤ 250W
PoE protocol	IEEE802.3af,IEEE802.3at
Exchange mode	Store & forward
Operating Humidity	10%-90% (no condensing)
Power	100 - 240V CA
Operating Temperature	- 10°C to +55°C
Weight	2.69 kg
Dimension (L x W x H)	442mm × 124mm × 44.5mm
Mount	Rackmount with adapters

IN-162POEWM-S2

16 - Port PoE Switch with Gigabit Uplink

New

Features
- Two-layer network management PoE switch
- Support PoE, PoE+, Hi-PoE
- 250 meters long distance PoE transmission
- "Orange port" support Hi-PoE, can be used with the PoE extender
- PoE management, PoE Setting/Event Statistics/Green PoE

Model	IN-162POEWM
Ethernet port	2*10/100/1000 Base-T (Combo port); 2*1000 Base-X (Combo port); 16*10/100 Base-T (PoE power supply);
PoE power consumption	Port1/2 support Hi-PoE (60W), PoE+, PoE Each power ≤30W Total≤240W
PoE protocol	IEEE802.3af, IEEE802.3at, Hi-PoE
Packet Forwarding Rate	5.36Mpps
Operating Humidity	10%-90% (no condensing)
Power	100 - 240V CA
Operating Temperature	-10°C to 55°C
Weight	3.51kg
Dimension (L x W x H)	440mm x 300mm x 44mm
Mount	Rackmount with adapters

IN-242POEWM-S2

24 - Port PoE Switch with Gigabit Uplink

New

Features
- Two-layer network management PoE switch
- Support PoE, PoE+, Hi-PoE
- 250 meters long distance PoE transmission
- "Orange port" support Hi-PoE, can be used with the PoE extender
- PoE management, PoE Setting/Event Statistics/Green PoE

Model	IN-162POEWM
Ethernet port	2*10/100/1000 Base-T (Combo port); 2*1000 Base-X (Combo port); 24*10/100 Base-T (PoE power supply);
PoE power consumption	Port1/2 support Hi-PoE (60W), PoE+, PoE Each power ≤30W Total≤240W
PoE protocol	IEEE802.3af, IEEE802.3at, Hi-PoE
Packet Forwarding Rate	6.55Mpps
Operating Humidity	10%-90% (no condensing)
Power	100 - 240V CA
Operating Temperature	- 10°C to +55°C
Weight	3.51kg
Dimension (L x W x H)	440mm x 300mm x 44mm
Mount	Rackmount with adapters

IN-16POEGWM

16-port 10/100/1000M + 4 SFP Rack-Mount Gigabit Web Smart Ethernet Switch

Features
- 16-Port 10/100/1000M IEEE 802.3 af/at complaint PSE, 4 SFP Open Slots
- Full Gigabit solution
- Supports up to 30 Watts per channel (13 ports)
- 2 Ports uplink gigabit copper with 2 SFP Open Slots
- Enterprise-Class Web-based Management
- 2 Ports gigabit copper with 2 SFP Open Slots
- IEEE 802.1Q VLAN Tagging
- Link Aggregation and Spanning Tree
- Auto-MDI/MDI-X
- Auto-Negotiation
- Rack-Mount to 19" Cabinet
- 19" Metal Case
- 2 Year Warranty

Model	IN-16POEGWM
Ethernet port	10BaseT Cat. 3, 4, 5 UTP/STP ,100BaseTX Cat. 5 UTP/STP, 1000BaseTX Cat. 5E UTP/STP
PoE power consumption	390 Watts Maximum
PoE protocol	IIEEE 802.3 10BaseT, IEEE 802.3u 100BaseTX, IEEE 802.ab 1000BaseT, IEEE 802.3z 1000BaseSX/LX, IEEE 802.3 Flow Control, IEEE 802.3af POE, IEEE 802.3at POE, IEEE 802.1x Port-based Network Access Control IEEE 802.1Q VLAN, IEEE 802.3ad Link Aggregation, IEEE 802.1d Spanning Tree Protocol, IEEE 802.1w Rapid Spanning Tree Protocol, IEEE 802.1p Class of Service, Priority Protocols
Exchange mode	Store & forward
Operating Humidity	10%-90% (no condensing)
Power	100-240V/AC, 50-60Hz
Operating Temperature	0 to 45°C
Weight	4.1 kg
Dimension (L x W x H)	440 × 330 × 44 mm
Mount	Rackmount with adapters

IN-24POEGWM

24-Port Gigabit PoE + 4 Combo SFP Rack-mount Gigabit Web Smart Ethernet Switch

Features
- 24-Port 10/100/1000M IEEE 802.3 af/at complaint PSE, 4 SFP Open Slots
- Full Gigabit solution
- Supports up to 30 Watts per channel (13 ports)
- 2 Ports uplink gigabit copper with 2 SFP Open Slots
- Enterprise-Class Web-based Management
- 2 Ports gigabit copper with 2 SFP Open Slots
- IEEE 802.1Q VLAN Tagging
- Link Aggregation and Spanning Tree
- Auto-MDI/MDI-X
- Auto-Negotiation
- Rack-Mount to 19" Cabinet
- 19" Metal Case
- 2 Year Warranty

Model	IN-24POEGWM
Ethernet port	10BaseT Cat. 3, 4, 5 UTP/STP, 100BaseTX Cat. 5 UTP/STP, 1000BaseT Cat. 5E UTP/STP
PoE power consumption	390 Watts Maximum
PoE protocol	IEEE 802.3 10BaseT, IEEE 802.3u 100BaseTX, IEEE 802.ab 1000BaseT, IEEE 802.3z 1000BaseSX/LX, IEEE 802.3x Full-duplex and Flow Control, IEEE 802.1Q VLAN, IEEE 802.1p QoS / Class of Service, Priority Protocols, IEEE802.3 Nway Auto-negotiation, IEEE802.3af Power over Ethernet
Exchange mode	Store & forward
Operating Humidity	10%-90% (no condensing)
Power	90-260V/AC, 50-60Hz
Operating Temperature	0 to 45°C
Weight	1.4 kg
Dimension (L x W x H)	440 × 332 × 44 mm
Mount	Rackmount with adapters

INS164POEGWM

16-Port PoE Gigabit Managed Switch

New

Features
- Two-layer network management PoE switch
- MAC auto study and aging, MAC address list capacity is 8K
- Support IEEE802.3af, IEEE802.3at standard
- Conform IEEE802.3, IEEE802.3u, IEEE802.3ab/z and IEEE802.3X standards
- Support command-line interface

Model	INS164POEGWM
Ethernet port	16*10/100/1000 Base-T(PoE power supply); 4*1000 Base-X
PoE power consumption	Each power ≤30W; Total≤250W
PoE protocol	IEEE802.3af IEEE802.3at
Packet Forwarding Rate	29.76Mpps
Operating Humidity	10%-90% (no condensing)
Power	AC 100-240V
Operating Temperature	-10°C to 55°C
Weight	3.75kg
Dimension (L x W x H)	440 × 260 × 44 mm
Mount	Rackmount with adapters

INS244POEGWM

24-Port PoE Gigabit Managed Switch

New

Features
- Two-layer network management PoE switch
- MAC auto study and aging, MAC address list capacity is 8K
- Support IEEE802.3af, IEEE802.3at standard
- Conform IEEE802.3, IEEE802.3u, IEEE802.3ab/z and IEEE802.3X standards
- Support command-line interface

Model	INS244POEGWM
Ethernet port	24*10/100/1000 Base-T(PoE power supply); 4*1000 Base-X
PoE power consumption	Each power ≤30W; Total≤370W
PoE protocol	IEEE802.3af IEEE802.3at
Packet Forwarding Rate	41.66Mpps
Operating Humidity	10%-90% (no condensing)
Power	AC 100-240V
Operating Temperature	-10°C to 55°C
Weight	3.85kg
Dimension (L x W x H)	440 × 260 × 44 mm
Mount	Rackmount with adapters

IN-7026VM

24-Port 10/100/1000Base-T PoE + 2 Gigabit SFP
Layer 2+ Management Current Sharing PoE Switch

Features
- **24 10/100/1000Base-T PoE + 2 Gigabit SFP**
- **500W Total power consumption**
- **IEEE 802.3at PoE, Maximum 30W per port**
- **Layer 2+ Full Managed Software Features**
- **4K VLAN, 8 queues QoS, Advanced VLANs**
- **MSTP, LACP, LLDP, sFlow, 802.1X, TACAS+, ACL**
- **IPv4/v6 dual protocol**

Model	**IN-7026VM**
Ethernet port	**10/100/1000Base with RJ-45 Connectors: 24 port 100/1000Base-X SFP: 2**
PoE power consumption	**500 Watts (Max)**
PoE protocol	**IIEEE 802.3 10BaseT, IEEE 802.3u 100BaseTX, IEEE 802.ab 1000BaseT, IEEE 802.3z 1000BaseSX/LX, IEEE 802.3az EEE, IEEE 802.3at PoE+ IEEE 802.3x Flow Control, IEEE 802.1Q VLAN IEEE 802.1p Class of Service, Priority Protocols IEEE 802.1d Spanning Tree Protocol, IEEE 802.1w Rapid Spanning Tree Protocol, IEEE 802.1s Multiple Spanning Tree Protocol, IEEE 802.3ad Link Aggregation Control Protocol (LACP), IEEE802.1v Protocol VLAN IEEE 802.1AB LLDP (Link Layer Discovery Protocol) IEEE 802.1x Port-based Network Access Control**
Exchange mode	**Store & forward**
Operating Humidity	**5%-90% (no condensing)**
Power	**100-240V/AC**
Operating Temperature	**0 to 40°C**
Weight	**4.7 kg**
Dimension (L x W x H)	**440 × 330 × 45 mm**
Mount	**Rackmount with adapters**

IN-4008G

8-Port Desktop Gigabit Ethernet Switch

Features
- 8-Port 10M/100M/1000M
- Desktop Gigabit Switch
- 9" Metal Case
- Rack-mountable
- No Fan
- Auto-MDI/MDI-X
- Auto-Negotiation
- Non-Blocking
- Internal Power Supply

Model	IN-4008G
Ethernet port	10BaseT Cat. 3, 4, 5 UTP/STP 100BaseTX Cat. 5 UTP/STP 1000BaseT Cat. 5E UTP/STP
PoE power consumption	10 Watts Maximum
PoE protocol	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3ab 1000BaseT IEEE 802.3x Flow Control
Exchange mode	Store & forward
Operating Humidity	10%-90% (no condensing)
Power	100-240V/AC, 50-60Hz
Operating Temperature	0 to 45°C
Weight	0,92 kg
Dimension (L x W x H)	124 × 228 × 44 mm
Mount	Rackmount with adapters

IN-4016G

16-Port 10M/100M/1000M Desktop Fast Ethernet Switch

Features
- 9" Metal Case
- Rack-mountable
- No Fan
- Auto-MDI/MDI-X
- 10/100/1000Mbps
- Auto-Negotiation
- Non-Blocking
- Internal Power Supply

Model	IN-4016G
Ethernet port	10BaseT Cat. 3, 4, 5 UTP/STP 100BaseTX Cat. 5 UTP/STP
PoE power consumption	9.2 Watts Maximum
PoE protocol	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3x Flow Control
Exchange mode	Store & forward
Operating Humidity	10%-90% (no condensing)
Power	100-240V/AC, 50-60Hz
Operating Temperature	0 to 45°C
Weight	1.4 kg
Dimension (L x W x H)	123 × 228 × 44 mm
Mount	Rackmount with adapters

IN-4024G

24-Port 10M/100M/1000M Desktop Fast Ethernet Switch

Features
- 9” Metal Case
- Rack-mountable
- No Fan
- Auto-MDI/MDI-X
- 10/100/1000Mbps
- Auto-Negotiation
- Non-Blocking
- Internal Power Supply

Model	IN-4024G
Ethernet port	10BaseT Cat. 3, 4, 5 UTP/STP 100BaseTX Cat. 5 UTP/STP
PoE power consumption	12 Watts Maximum
PoE protocol	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3x Flow Control
Exchange mode	Store & forward
Operating Humidity	10%-90% (no condensing)
Power	100-240V/AC, 50-60Hz
Operating Temperature	0 to 45°C
Weight	1.7 kg
Dimension (L x W x H)	160 × 266 × 44 mm
Mount	Rackmount with adapters

IN-PS201G

1-port Gigabit IEEE 802.3at PoE+ Injector

Features
- 1 x Ethernet Input Port (Data Only)
- 1 x Ethernet Output Port (Data + Power)
- Compliant with IEEE 802.3at/af
- Smart Plug and Play
- 10/100/1000Mbps
- Supplies 30 watt PoE+ power

Model	INPS201G
PoE power consumption	35 Watts Maximum
PoE protocol	IEIEEE 802.3af IEEE 802.3at IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3ab 1000BaseT
Operating Humidity	10%-90% (no condensing)
Power	48V/DC
Operating Temperature	0°C to + 40°C
Weight	280g
Dimension (L x W x H)	102mm × 75mm × 23mm

TWIST2-IP

PoE EoC Solution 10/100Mbps 300m

Features
- 1 full-duplex VDSL links via RJ-11 connector
- Selectable CO and CPE mode
- Selectable fast and interleaved mode
- Selectable target SNR margin
- Compliant with ETSI, ITU and ANSI standards
- Plug & Play

Model	TWIST2-IP
Ethernet port	10BaseT Cat. 3, 4, 5 UTP/STP 100BaseTX Cat. 5 UTP/STP 1000BaseT Cat. 5E UTP/STP
PoE protocol	IEEE802.3 10Base-T IEEE802.3u 100Base-TX IEEE802.3x Full Duplex ETSI ITU ANSI Full ITU-T G.993.1 (VDSL) compatible
Operating Humidity	10%-90% (no condensing)
Power	DC 5V/2A
Operating Temperature	- 20°C to + 90°C
Weight	280g
Dimension (L x W x H)	102mm × 75mm × 23mm

COAX2IPOE

PoE EoC Solution 10/100Mbps 300m

Features
- Use with coaxial cable to transmit power and data
- Conforms to IEEE802.3i 10Base-T and IEEE802. 3 low control
- LED indicator to display the current status
- Plug and play, no configuration required
- Used in pairs

Model	COAX2IPOE
PoE protocol	IEEE 802.3 IEEE 802.3u IEEE 802.3x IEEE 802.3af
Operating Humidity	10%-90% (no condensing)
Power	48V/DC
Operating Temperature	- 10°C to + 50°C
Weight	450g
Dimension (L x W x H)	118mm × 85mm × 29mm

IN-MGLC SFP SERIES

1000BaseSX/LX SFP Modules

Features
- **Duplex LC Connector**
- **Hot Pluggable**
- **Class 1 Laser Product**
- **Industry standard**
- **Single 3.3V power supply**
- **Cable Type: 62.5um MMF: 220 m; 50um**
- **MMF: 550 m; 9/10um SMF: 10km**
- **2 Year Warranty**

Models	**IN-MGLC SFP Series (PFA 101, PFA, PFA 152)**
Maximum Distance	**IN-MGLC: 220/500m, IN-MGLC10: 1km, IN-MGLC20BB: 20km, IN-MGLC20BB: 20km, IN-MGLC40: 40km**
Mode	**Multi or Single**
Frequency	**IEEE 802.3z 1000BaseSX/LX Gigabit Ethernet Standards**

Model	**Desktop IP Server**	**Desktop IP Recorder**	**Desktop Workstation**	**2U Rackmount IPS**	**2U Rackmount IPR**	**3U Rackmount IPS**	**4U Rackmount IPS**
IP Cameras	Up to 64 Cameras; Data rate dependent	Up to 64 Cameras; Data rate dependent	Up to 64 Cameras; Data rate dependent	Up to 128 Cameras; Data rate dependent	Up to 64 Cameras; Data rate dependent	Up to 128 Cameras; Data rate dependent	Up to 128 Cameras; Data rate dependent
Server OS	Windows 10 64 bit	Windows 10 64 bit	Windows 10 64 bit	Windows 10 64 bit	Windows 10 64 bit	Windows 10 64 bit; Windows Server 2012 R2	Windows 10 64 bit; Windows Server 2012 R2
Maximum Storage	32TB	24TB	24TB	48TB	24TB	96TB	192TB
RAID Configuration	N/A	N/A	N/A	Available	N/A	Available	Available
Hot Swappable Drives	4	N/A	N/A	8 / 2 internal	N/A	16	24
Serial Connections	N/A	1	1	N/A	1	N/A	N/A
DVD / CD ROM	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Keyboard & Mouse	Included	Included	Included	Included	Included	Included	Included
NIC	2 standard; 4 optional	2 standard; 1 optional	2 standard; 1 optional	2 standard; 4 optional	2 standard; 1 optional	2 standard; 4 optional	2 standard; 4 optional
Processor	Gen7 Intel® i3; (Optional) Intel® Core i5/i7	Gen7 Intel® i3; (Optional) Intel® Core i5/i7	Gen7 Intel® i3; (Optional) Intel® Core i5/i7	Gen7 Intel® i3; (Optional) Intel® Core i5/i7	Gen7 Intel® i3; (Optional) Intel® Core i5/i7	Gen7 Intel® i5; (Optional) Intel® Core i7	Intel® Core i7
Video Card	GeForce GT 1030	GeForce GT 1030	GeForce GT 1030	GeForce GT 1030	GeForce GT 1030	GeForce GT 1030	GeForce GT 1030
RAM	4GB (standard) 8/16GB (optional)	4GB (standard) 8/16GB (optional)	4GB (standard) 8/16GB (optional)	4GB (standard) 8/16GB (optional)	4GB (standard) 8/16GB (optional)	4GB (standard) 8/16GB (optional)	16GB
Redundant Power Supply	N/A	N/A	N/A	Optional	Optional	Optional	Optional
USB Ports	6 x USB 2.0, 2 x USB 3.0	4 x USB 3.1, 6 x USB 2.0	4 x USB 3.1, 6 x USB 2.0	2x USB Ports; DB9 COM Port	4 x USB 3.1, 6 x USB 2.0	2x USB Ports; DB9 COM Port	N/A
Display Outputs	1 DVI-I, 1 DVI-D, 1 Display Port, max 2 simultaneous monitors; (Optional) Quad monitor output	1 DVI-I, 1 DVI-D, 1 Display Port, max 2 simultaneous monitors; (Optional) Quad monitor output	1 DVI-I, 1 DVI-D, 1 Display Port, max 2 simultaneous monitors; (Optional) Quad monitor output	1 DVI-I, 1 DVI-D, 1 Display Port, max 2 simultaneous monitors, VGA- DVI - HDMI - DP	1 DVI-I, 1 DVI-D, 1 Display Port, max 2 simultaneous monitors; (Optional) Quad monitor output	1 DVI-I, 1 DVI-D, 1 Display Port, max 2 simultaneous monitors, VGA- DVI - HDMI - DP	1 DVI-I, 1 DVI-D, 1 Display Port, max 2 simultaneous monitors, VGA- DVI - HDMI - DP
Audio Outputs	1	3	3	1	3	1	1
Input Voltage	120/240 VAC auto-sensing	100/240 VAC±10%	100/240 VAC±10%	100/240 VAC auto-sensing	100/240 VAC±10%	100/240 VAC auto-sensing	100/240 VAC auto-sensing
Dimensions	15.675 x 13 x 5.375 inch	17.2 x 8.2 x 19.2 inch	17.2 x 8.2 x 19.2 inch	25.5 x 17.2 x 3.5 in	19 x 3.5 x 16.94 in	25.5 x 17.2 x 5.2 in	26 x 17.2 x 7 in
Weight	22 lbs	10.8 lbs	10.8 lbs	50 lbs	23.8 lbs	72 lbs	75 lbs
Regulatory	CE (Class A), FCC (Class A), UL Listed	CE (Class A), FCC (Class A), UL Listed	CE (Class A), FCC (Class A), UL Listed	CCC Certification, CB Report, EN-60950/IEC 60950-Compliant, TUV Certified, CUL Listed, UL Listed	CE (Class A), FCC (Class A), UL Listed	CCC Certification, CB Report, EN-60950/IEC 60950-Compliant, TUV Certified, CUL Listed, UL Listed	CCC Certification, CB Report, EN-60950/IEC 60950-Compliant, TUV Certified, CUL Listed, UL Listed

New

Model	4U-MIPS-96/288T-RAID-HSDS
Motherboard	Super X10DRH-iT
CPU	Intel® Xeon® processor E5-2600 v4†/ v3 family (up to 145W TDP)* Dual Socket R3 (LGA 2011)
Cores / Cache	Up to 22 Cores† / Up to 55MB† Cache
System Bus	QPI up to 9.6 GT/s
Memory Capacity	16x 288-pin DDR4 DIMM slots Up to 2TB† ECC 3DS LRDIMM, 512 ECC RDIMM
Memory Type	2400†/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
RAM	16GB
Memory Voltage	1.2 V
Error Detection	Corrects single-bit errors
Chipset	Intel® C612 chipset
SAS	SAS3 (12Gbps) via Broadcom 3108 (optional SuperCap) HW RAID 0, 1, 5, 6, 10, 50, 60
SATA	SATA3 (6Gbps) with RAID 0, 1, 5, 10
Graphics	ASPEED AST2400 BMC
LAN	2 RJ45 10GBase-T LAN ports; 1 RJ45 Dedicated IPMI LAN port
USB	2 USB 3.0 ports (rear); 2 USB 2.0 ports (rear); 1 Type A
VGA	1 VGA port
Serial Port / Header	1 Fast UART 16550 port / 1 Header
Form Factor	4U Rackmount
Width x Height x Depth	437mm x 178mm x 699mm
Weight	Gross Weight: 102.5 lbs (46.4 kg) Net Weight: 65.5 lbs (29.7 kg)
PCI-Express	1 PCI-E 3.0 x16 slot; 6 PCI-E 3.0 x8 slots
Hot-swap / Optional	36x 3.5" Hot-swap SAS3/SATA3 drive bays Double-sided: 24 front + 12 rear drive bays; (Optional) 2x 2.5" Hot-swap SATA drive bays (rear) Fixed internal Drive Bracket supports 1x 3.5 or 2x 2.5" devices
Fans	7 x 80mm middle cooling fans; Redundant cooling

Power Supply	1280W High-Efficiency (95%+)
AC Input	1000W Output @ 100-140V, 12-8A, 50-60Hz 1280W Output @ 180-240V, 8-6A, 50-60Hz
DC Output	1000W: +12V/83A; +5Vsb/4A 1280W: +12V/106.7A, +5Vsb/4A
BIOS Type	128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	Plug and Play (PnP); APM 1.2; PCI 2.2; ACPI 1.0 / 2.0 USB Keyboard support; SMBIOS 2.3; UEFI
RoHS	RoHS Compliant
Environmental Spec.	+10°C to +35°C and less than 90% RH

New

Model	4U-MSS-240/480T-RAID-HSDS
Motherboard	Super X10DSC+
CPU	Intel® Xeon® processor E5-2600 v4†/ v3 family (up to 160W TDP) Dual Socket R3 (LGA 2011)
Cores / Cache	Up to 22 Cores† / Up to 55MB† Cache
System Bus	QPI up to 9.6 GT/s
Memory Capacity	24 x 288-pin DDR4 DIMM slots Up to 3TB† ECC 3DS LRDIMM, 768 ECC RDIMM; 16GB Standard
Memory Type	2400†/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	RDIMM: 32GB, 16GB, 8GB, 4GB; LRDIMM: 64GB, 32GB; 3DS LRDIMM: 128GB
Memory Voltage	1.2 V
Error Detection	Corrects single-bit errors
Chipset	Intel® C612 chipset
SAS	SAS3 (12Gbps) via Broadcom 3108 (optional SuperCap) HW RAID 0, 1, 5, 6, 10, 50, 60
IPMI	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN
Graphics	ASPEED AST2400 BMC
LAN	N/A
USB	3 USB 3.0 ports (2 rear + 1 Type A)
VGA	1 VGA port
Serial Port / Header	1 Fast UART 16550 port / 1 Header
Form Factor	4U Rackmount
Width x Height x Depth	437mm x 178mm x 767mm
Weight	Gross Weight: 170.5 lbs (77.3 kg) Net Weight: 118 lbs (53.5 kg)
PCI-Express	2 PCI-E 3.0 x16 slots; 1 PCI-E 3.0 x8 slots
Hot-swap / Optional	60x 3.5" Hot-swap SAS3/SATA3 drive bays 2x 2.5" rear Hot-swap SATA drive bays; (Optional) 6 NVMe bays
Fans	5 x 80mm hot-swap rear exhaust coolin fans; Redundant cooling
Power Supply	2000W Redundant Power Supplies with PMBus

Input	100-120Vac / 12.5-9.5A / 50-60Hz 200-220Vac / 10-9.5A / 50-60Hz 220-230Vac / 10-9.8A / 50-60Hz 230-240Vac / 10-9.8A / 50-60Hz 200-240Vac / 11.8-9.8A / 50-60Hz (UL/cUL only)
+12V	Max: 83.3A / Min: 0A (100-120Vac) Max: 150A / Min: 0A (200-220Vac) Max: 165A / Min: 0A (220-230Vac) Max: 166.7A / Min: 0A (230-240Vac) Max: 166.7A / Min: 0A (200-240Vac) (UL/cUL only)
BIOS Type	128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	Plug and Play (PnP); APM 1.2; PCI 2.2; ACPI 1.0 / 2.0 USB Keyboard support; SMBIOS 2.3; UEFI
RoHS	RoHS Compliant
Environmental Spec.	+10°C to +35°C and less than 90% RH

8U-MSS-384/640T-RAID-HSDS | 36 Bay 4U Storage Server

8U-MSS-384/640T-RAID-HSDS | 44 Bay 4U Storage Unit

New

Model	8U-MSS-384/640T-RAID-HSDS | 36 Bay 4U Server
Motherboard	Super X10DRH-iT
CPU	Intel® Xeon® processor E5-2600 v4†/ v3 family (up to 145W TDP)* Dual Socket R3 (LGA 2011)
Cores / Cache	Up to 22 Cores† / Up to 55MB† Cache
System Bus	QPI up to 9.6 GT/s
Memory Capacity	16 x 288-pin DDR4 DIMM slots Up to 2TB† ECC 3DS LRDIMM, 512 ECC RDIMM
Memory Type	2400†/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	RDIMM: 32GB, 16GB, 8GB, 4GB; LRDIMM: 64GB, 32GB; 3DS LRDIMM: 128GB
Memory Voltage	1.2 V
Error Detection	Corrects single-bit errors
Chipset	Intel® C612 chipset
SAS	SAS3 (12Gbps) via Broadcom 3108 (optional SuperCap) HW RAID 0, 1, 5, 6, 10, 50, 60
SATA	SATA3 (6Gbps) with RAID 0, 1, 5, 10
IPMI	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN
Graphics	ASPEED AST2400 BMC
LAN	2 RJ45 10GBase-T LAN ports; 1 RJ45 Dedicated IPMI LAN port
USB	2 USB 3.0 ports (rear); 2 USB 2.0 ports (rear); 1 Type A
VGA	1 VGA port
Serial Port / Header	1 Fast UART 16550 port / 1 Header
Form Factor	4U Rackmount
Width x Height x Depth	437mm x 178mm x 699mm
Weight	Gross Weight: 102.5 lbs (46.4 kg) Net Weight: 65.5 lbs (29.7 kg)
PCI-Express	1 PCI-E 3.0 x16 slot; 6 PCI-E 3.0 x8 slots
Hot-swap / Optional	36 x 3.5" Hot-swap SAS3/SATA3 drive bays Double-sided: 24 front + 12 rear drive bays; (Optional) 2 x 2.5" Hot-swap SATA drive bays (rear) Fixed internal Drive Bracket supports 1 x 3.5 or 2 x 2.5" devices
Fans	7 x 80mm middle cooling fans; Redundant cooling
Power Supply	1280W High-Efficiency (95%+) power supply
AC Input	1000W Output @ 100-140V, 12-8A, 50-60Hz 1280W Output @ 180-240V, 8-6A, 50-60Hz
DC Output	1000W: +12V/83A; +5Vsb/4A 1280W: +12V/106.7A, +5Vsb/4A
BIOS Type	128Mb SPI Flash EEPROM with AMI BIOS

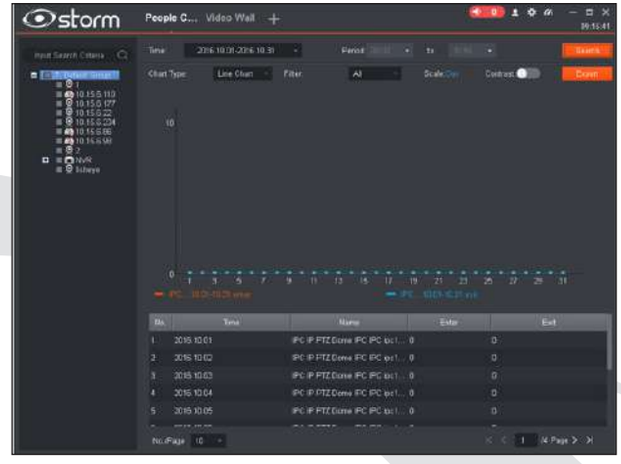
BIOS Features	Plug and Play (PnP); APM 1.2; PCI 2.2; ACPI 1.0 / 2.0 USB Keyboard support; SMBIOS 2.3; UEFI
RoHS	RoHS Compliant
Environmental Spec.	+10°C to +35°C and less than 90% RH
Model	8U-MSS-384/640T-RAID-HSDS | 44 Bay 4U Unit
Form Factor	4U SAS3 JBOD storage chassis
Width x Height x Depth	437mm x 178mm x 699mm
Weight	Gross Weight: 95 lbs (43.09 kg)
Drive Bays	44 x 3.5" hot-swap HDD bays for JBOD solution
Backplane	24-port 4U SAS3 12Gbps single-expander backplane, support up to 24x 3.5-inch SAS3/SATA3 HDD/SSD 20-port 4U (SC847E1C JBOD) SAS3 12Gbps single-expander backplane (rear), support up to 20x 3.5-inch SAS3/SATA3 HDD/SSD
Fans	7 x 8cm hot-swap redundant PWM cooling fan(s)
Power Supply	PDB-PT847-8824 O/P: 12V/135 +5V Max: 100 +3.3V Max: 30 -12V Max: 0.6
Environmental Spec.	+5°C to +35°C and less than 90% RH

STORM VMS

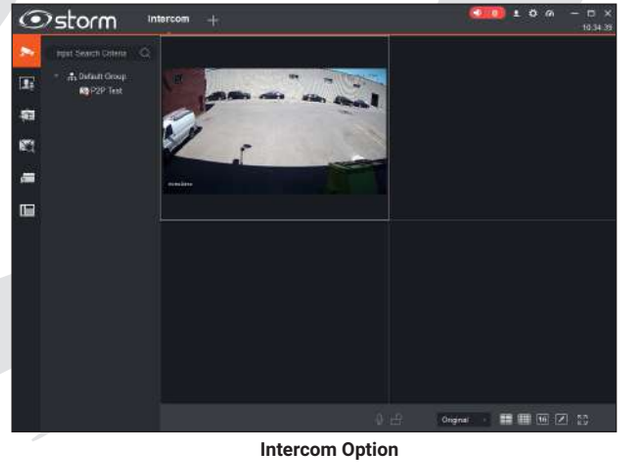
Storm Professional Surveillance System

**Open, Free, Intelligent,
Make your Security Surveillance
System Easy-to-Use**

Features	H.265 Compression Format
	Up to 4K Resolution
	Up to 256 Management Devices
	Up to 2000 Management Channels
	Up to 50 Users
	Up to 64 Video Display Split for Windows
	People Counting; E-PTZ; Audio; Fisheye Dewarp
	Smart Phone App available
	PC-NVR Recording up to 32 Channels



People Counting



Intercom Option

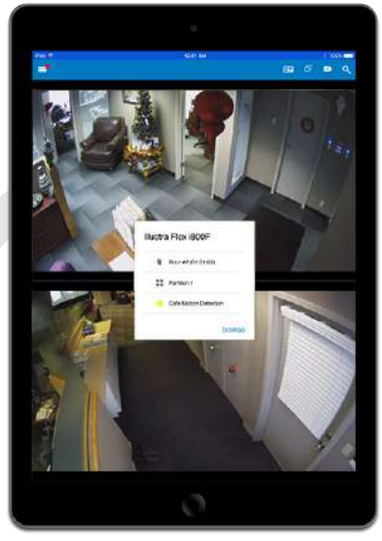
VMS VIDEO MANAGEMENT SOFTWARE

IVTVision VMS

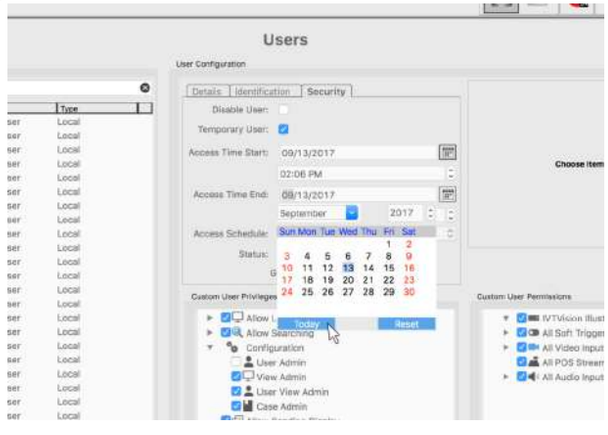
IVTVision Enterprise Surveillance System

Intelligent, Easy-to-Use
Cross Platform Video Management Software

Features
H.265 Compression Format*
Up to 4K Resolution
Up to 192 Cameras per Server
Up to 528 Management Channels
Timelapse Recording
Smart Search
Enterprise-level Camera Management
LDAP/Active Directory



Mobile Application



Enhanced Administrator Control

VMS **VIDEO MANAGEMENT SOFTWARE**

**On specific models*

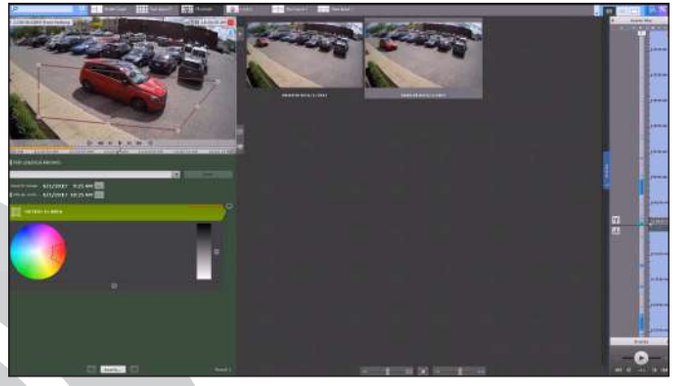
Arkiv VMS

Arkiv Enterprise Surveillance System

Open-Platform Advanced Intelligent Video Management Software

New

Features
Industry Leading H.265+ Compression Format
Up to 4K Resolution
Arkiv Advanced Analytics
Unlimited Number of Servers
Unlimited Number of Cameras
Simultaneous recording to archive
Pre-event video recording
License Plate Recognition
Audio Detection
Object Missing
Situational Analysis



Post-Analytics

License Plate Recognition

Target & Follow

VMS VIDEO MANAGEMENT SOFTWARE

CAMERAS COMPATIBILITY

INS441N-INS881N	Cameras Compatibility				
	INSDO6IRHEM* INSDO6IRWF* INSDO6IRA* INSBO6IRA* INSBO6180IRF*	INSDO5HEM	INSBO4IRF, INSBO4KIRF, INSDO4IRF, INSDO4IRWA, INSDO4IRWF, INSDO4IRWSA, INSDO4IRWV, INSDO4KIRA, INSDO4KIRF, INSWDO4IRWF, INSBO4IRWA, INSDI4HEM	INSBO3IRF INSDO3IRA INSDO3IRF INSDO3IRV	INSBO2IRF, INSBO2IRWA, INSBO2IR30X, INSDO2IRF, INSDO2IRSDA, INSDO2IRV, INSDO2IRWA, INSDO2IRWF, INSDO2IRWV, INSWDO2IRWF, INSEBO2IRF, INSPH2F, INSDO2IRXWA, INSDO2IRSLLWA
	6MP	5MP	4MP	3MP	2MP

INS16162N-INS3216NVR	Cameras Compatibility						
	INSBO4KIRF* INSDO4KIRA* INSDO4KIRF* INSDO12IRHEM*	INSDO8180IRF*	INSDO6IRHEM* INSDO6IRWF* INSDO6IRA* INSBO6IRA* INSBO6180IRF*	INSDO5HEM	INSBO4IRF, INSDO4IRF, INSDO4IRWA, INSDO4IRWF, INSDO4IRWSA, INSDO4IRWV, INSWDO4IRWF, INSBO4IRWA, INSDI4HEM	INSBO3IRF INSDO3IRA INSDO3IRF INSDO3IRV	INSBO2IRF, INSBO2IRWA, INSBO2IR30X, INSDO2IRF, INSDO2IRSDA, INDO2IRV, INSDO2IRWA, INSDO2IRWF, INSDO2IRWV, INSWDO2IRWF, INSEBO2IRF, INSPH2F, INSDO2IRXWA, INSDO2IRSLLWA
	4K	8MP	6MP	5MP	4MP	3MP	2MP

INS8824KN-INS161624KN	Cameras Compatibility						
	INSBO4KIRF* INSDO4KIRA* INSDO4KIRF* INSDO12IRHEM*	INSDO8180IRF*	INSDO6IRHEM* INSDO6IRWF* INSDO6IRA* INSBO6IRA* INSBO6180IRF*	INSDO5HEM	INSBO4IRF, INSDO4IRF, INSDO4IRWA, INSDO4IRWF, INSDO4IRWSA, INSDO4IRWV, INSWDO4IRWF, INSBO4IRWA, INSDI4HEM	INSBO3IRF INSDO3IRA INSDO3IRF INSDO3IRV	INSBO2IRF, INSBO2IRWA, INSBO2IR30X, INSDO2IRF, INSDO2IRSDA, INDO2IRV, INSDO2IRWA, INSDO2IRWF, INSDO2IRWV, INSWDO2IRWF, INSEBO2IRF, INSPH2F, INSDO2IRXWA, INSDO2IRSLLWA
	4K	8MP	6MP	5MP	4MP	3MP	2MP

INS324K-INS644K	Cameras Compatibility						
	INSBO4KIRF* INSDO4KIRA* INSDO4KIRF* INSDO12IRHEM*	INSDO8180IRF*	INSDO6IRHEM* INSDO6IRWF* INSDO6IRA* INSBO6IRA* INSBO6180IRF*	INSDO5HEM	INSBO4IRF, INSDO4IRF, INSDO4IRWA, INSDO4IRWF, INSDO4IRWSA, INSDO4IRWV, INSWDO4IRWF, INSBO4IRWA, INSDI4HEM	INSBO3IRF INSDO3IRA INSDO3IRF INSDO3IRV	INSBO2IRF, INSBO2IRWA, INSBO2IR30X, INSDO2IRF, INSDO2IRSDA, INDO2IRV, INSDO2IRWA, INSDO2IRWF, INSDO2IRWV, INSWDO2IRWF, INSEBO2IRF, INSPH2F, INSDO2IRXWA, INSDO2IRSLLWA
	4K	8MP	6MP	5MP	4MP	3MP	2MP

Refer to the Cameras Compatibility Chart next page for more information.

***We recommend the 4K NVR for these models.**

CAMERAS COMPATIBILITY

INS441N-INS881N	Cameras	Maximum Live Preview Channels	Maximum Live Playback Channels	Input	Recording	Transmission
	6MP (20fps)	1 Channel	1 Channel	80Mbps	80Mbps	40Mbps
	5MP (30fps)	1 Channel	1 Channel	80Mbps	80Mbps	40Mbps
	4MP (30fps)	2 Channels	2 Channels	80Mbps	80Mbps	40Mbps
	3MP (30fps)	2 Channels	2 Channels	80Mbps	80Mbps	40Mbps
	1080P (30fps)	4 Channels	4 Channels	80Mbps	80Mbps	40Mbps
	720P (30fps)	8 Channels	8 Channels	80Mbps	80Mbps	40Mbps
	D1 (30fps)	8 Channels	8 Channels	80Mbps	80Mbps	40Mbps

INS16162N-INS3216NVR	Cameras	Maximum Live Preview Channels	Maximum Live Playback Channels	Input	Recording	Transmission
	5MP (8fps)	2 Channels	2 Channels	200Mbps	128Mbps	128Mbps
	4MP (20fps)	4 Channels	4 Channels	200Mbps	128Mbps	128Mbps
	3MP (15fps)	4 Channels	4 Channels	200Mbps	128Mbps	128Mbps
	1080P	8 Channels	8 Channels	200Mbps	128Mbps	128Mbps
	720P	16 Channels	16 Channels	200Mbps	128Mbps	128Mbps

INS8824KN-INS161624KN	Cameras	Maximum Live Preview Channels	Maximum Live Playback Channels	Input	Recording	Transmission
	12MP (20fps)	2 Channels	2 Channels	320Mbps	320Mbps	320Mbps
	8MP (30fps)	4 Channels	4 Channels	320Mbps	320Mbps	320Mbps
	6MP (30fps)	5 Channels	5 Channels	320Mbps	320Mbps	320Mbps
	5MP (30fps)	6 Channels	6 Channels	320Mbps	320Mbps	320Mbps
	4MP (30fps)	8 Channels	8 Channels	320Mbps	320Mbps	320Mbps
	3MP (30fps)	11 Channels	11 Channels	320Mbps	320Mbps	320Mbps
	1080P (30fps)	16 Channels	16 Channels	320Mbps	320Mbps	320Mbps
	720P (30fps)	32 Channels	16 Channels	320Mbps	320Mbps	320Mbps
	D1 (30fps)	64 Channels	16 Channels	320Mbps	320Mbps	320Mbps

INS324K-INS644K	Cameras	Maximum Live Preview Channels	Maximum Live Playback Channels	Input	Recording	Transmission
	12MP (20fps)	4 Channels	4 Channels	384Mbps	384Mbps	128Mbps
	8MP (30fps)	4 Channels	4 Channels	384Mbps	384Mbps	128Mbps
	6MP (30fps)	5 Channels	5 Channels	384Mbps	384Mbps	128Mbps
	5MP (30fps)	6 Channels	6 Channels	384Mbps	384Mbps	128Mbps
	4MP (30fps)	8 Channels	8 Channels	384Mbps	384Mbps	128Mbps
	3MP (25fps)	12 Channels	12 Channels	384Mbps	384Mbps	128Mbps
	1080P (30fps)	16 Channels	16 Channels	384Mbps	384Mbps	128Mbps
	720P (30fps)	25 Channels	16 Channels	384Mbps	384Mbps	128Mbps

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