

PRODUCT GUIDE

September-2020

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1. IPM Series : 2Megapixel STARVIS

Model	IPM31A02-7311IR	IPM362-7211IR	IPM352-7311IR	IPM35A02-7311IR
PICTURE				
Image Sensor	1/2.8" 2.1M CMOS	1/2.8" 2.1M CMOS	1/2.8" 2.1M CMOS	1/2.8" 2.1M CMOS
Focal Length	2.8~12mm(F1.4)	2.8mm(F2.0), 4.0mm(F2.6), 6.0mm(F2.0) 8.0mm(F1.6)	2.8~12mm(F1.4)	2.8~12mm(F1.4)
Lens Type	Two motor MFZ	Fixed	Two motor MFZ	Two motor MFZ
Iris Type	P-IRIS	Auto Exposure	P-IRIS	P-IRIS
Day and Night	TDN(True day&Night)	TDN(True day&Night)	TDN(True day&Night)	TDN(True day&Night)
Min. Illumination	Color : 0.02Lux BW : 0Lux with IR	Color : 0.03Lux BW : 0Lux with IR	Color : 0.02Lux BW : 0Lux with IR	Color : 0.02Lux BW : 0Lux with IR
WDR	True WDR	True WDR	True WDR	True WDR
Analog Video Out	√	-	√	√
Compression	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG
Maximum Resolution	1920 X 1080	1920 X 1080	1920 X 1080	1920 X 1080
FPS	30fps@1080p	30fps@1080p	30fps@1080p	30fps@1080p
Intelligent Video Analytics	√	√	√	√
Audio In/Out	1/1	1(Built-in mic) / 0	1/1	1/1
DI/DO	1/1	-	1/1	1/1
Edge Storage	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC
Power Source	DC12V, PoE	DC12V, PoE	DC12V, PoE	DC12V, PoE
IP Protection Rating	-	IP67	IP66	IP67
IK Rating	-	IK10	IK10	IK10
Indoor / Outdoor	Indoor Only	Both	Both	Both
Programming I/F	CGI API, ONVIF	CGI API, ONVIF	CGI API, ONVIF	CGI API, ONVIF
Availability	√	√	√	√

1. IPM Series : 2Megapixel STARVIS

Model	IPM652-7211IR	IPM65A02-7311IR	IPM65A02-7311IR-V650	IPM45A02-7417IR-30
PICTURE				
Image Sensor	1/2.8" 2.1M CMOS	1/2.8" 2.1M CMOS	1/2.8" 2.1M CMOS	1/2.8" 2.4M CMOS
Focal Length	4.0mm(F2.6)	2.8~12mm(F1.4)	6~50mm(F1.6)	4.3 ~ 129mm(F1.6 ~ F4.7)
Lens Type	Fixed	Two motor MFZ	Two motor MFZ	30x Zoom Lens
Iris Type	Auto Exposure	P-IRIS	P-IRIS	Auto IRIS
Day and Night	TDN(True day&Night)	TDN(True day&Night)	TDN(True day&Night)	TDN(True day&Night)
Min. Illumination	Color : 0.03Lux BW : 0Lux with IR	Color : 0.02Lux BW : 0Lux with IR	Color : 0.02Lux BW : 0Lux with IR	Color : 0.05Lux BW : 0Lux with IR
WDR	True WDR	True WDR	True WDR	True WDR
Analog Video Out	-	√	√	√
Compression	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG
Maximum Resolution	1920 X 1080	1920 X 1080	1920 X 1080	1920 X 1080
FPS	30fps@1080p	30fps@1080p	30fps@1080p	30fps@1080p
Intelligent Video Analytics	√	√	√	√
Audio In/Out	-	1/1	1/1	1/1
DI/DO	-	1/1	1/1	1/1
Edge Storage	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC
Power Source	DC12V, PoE	DC12V, PoE	DC12V, PoE	AC24V, Ultra PoE
IP Protection Rating	IP67	IP67	IP67	IP66
IK Rating	-	IK09	IK09	IK10
Indoor / Outdoor	Both	Both	Both	Both
Programming I/F	CGI API, ONVIF	CGI API, ONVIF	CGI API, ONVIF	CGI API, ONVIF
Availability	√	√	√	√





2. IPM Series : 5Megapixel STARVIS

Model	IPM31A05-7311IR	IPM365-7211IR	IPM355-7311IR	IPM35A05-7311IR
PICTURE				
Image Sensor	1/2.8" 5.14M CMOS	1/2.8" 5.14M CMOS	1/2.8" 5.14M CMOS	1/2.8" 5.14M CMOS
Focal Length	2.7~13.5mm(F1.4)	2.8 mm(F1.8) 4.0mm/6.0mm/8.0mm(F2.0)	2.7~13.5mm(F1.4)	2.7~13.5mm(F1.4)
Lens Type	Two motor MFZ	Fixed	Two motor MFZ	Two motor MFZ
Iris Type	P-IRIS	Auto Exposure	P-IRIS	P-IRIS
Day and Night	TDN(True day&Night)	TDN(True day&Night)	TDN(True day&Night)	TDN(True day&Night)
Min. Illumination	Color : 0.08Lux BW : 0Lux with IR	Color : 0.1Lux BW : 0Lux with IR	Color : 0.08Lux BW : 0Lux with IR	Color : 0.08Lux BW : 0Lux with IR
WDR	True WDR	True WDR	True WDR	True WDR
Analog Video Out	√	-	√	√
Compression	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG
Maximum Resolution	2592x1944	2592x1944	2592x1944	2592x1944
FPS	30fps@2592x1944	30fps@2592x1944	30fps@2592x1944	30fps@2592x1944
Intelligent Video Analytics	√	√	√	√
Audio In/Out	1/1	1(Built-in mic) / 0	1/1	1/1
DI/DO	1/1	-	1/1	1/1
Edge Storage	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC
Power Source	12V, PoE	12V, PoE	12V, PoE	12V, PoE
IP Protection Rating	-	IP67	IP66	IP67
IK Rating	-	IK10	IK10	IK10
Indoor / Outdoor	Indoor Only	Both	Both	Both
Programming I/F	CGI API, ONVIF	CGI API, ONVIF	CGI API, ONVIF	CGI API, ONVIF
Availability	√	√	√	√





2. IPM Series : 5Megapixel STARVIS

Model	IPM65A05-7311IR	IPM65A05-7311IR-V650	IPM655-7211IR
PICTURE			
Image Sensor	1/2.8" 5.14M CMOS	1/2.8" 5.14M CMOS	1/2.8" 5.14M CMOS
Focal Length	2.7~13.5mm(F1.4)	6~50mm(F1.6)	4.0mm(F2.0)
Lens Type	Two motor MFZ	Two motor MFZ	Fixed
Iris Type	P-IRIS	P-IRIS	Auto Exposure
Day and Night	TDN(True day&Night)	TDN(True day&Night)	TDN(True day&Night)
Min. Illumination	Color : 0.08Lux BW : 0Lux with IR	Color : 0.08Lux BW : 0Lux with IR	Color : 0.1Lux BW : 0Lux with IR
WDR	True WDR	True WDR	True WDR
Analog Video Out	√	√	-
Compression	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG
Maximum Resolution	2592x1944	2592x1944	2592x1944
FPS	30fps@2592x1944	30fps@2592x1944	30fps@2592x1944
Intelligent Video Analytics	√	√	√
Audio In/Out	1/1	1/1	-
DI/DO	1/1	1/1	-
Edge Storage	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC
Power Source	12V, PoE	12V, PoE	12V, PoE
IP Protection Rating	IP67	IP67	IP67
IK Rating	IK09	IK09	-
Indoor / Outdoor	Both	Both	Both
Programming I/F	CGI API, ONVIF	CGI API, ONVIF	CGI API, ONVIF
Availability	√	√	√





2. IPM Series : 5Megapixel STARVIS

Model	IPM255-7511IR	IPM225-7511	IPM255-7511IR-IM	IPM225-7511-IM
PICTURE				
Image Sensor	1/1.8" 6.4M CMOS	1/1.8" 6.4M CMOS	1/1.8" 6.4M CMOS	1/1.8" 6.4M CMOS
Focal Length	1.55mm, F2.5	1.55mm, F2.5	1.05mm, F2.5	1.05mm, F2.5
Lens Type	Fisheye	Fisheye	Fisheye (Immersion Enabled)	Fisheye (Immersion Enabled)
Iris Type	Auto Exposure	Auto Exposure	Auto Exposure	Auto Exposure
Day and Night	TDN(True day&Night)	TDN(True day&Night)	TDN(True day&Night)	TDN(True day&Night)
Min. Illumination	Color : 0.1Lux BW : 0Lux with IR	Color : 0.1Lux BW : 0.02Lux	Color : 0.1Lux BW : 0Lux with IR	Color : 0.1Lux BW : 0.02Lux
WDR	DWDR	DWDR	DWDR	DWDR
Analog Video Out	-	-	-	-
Compression	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG
Maximum Resolution	2592x1944	2592x1944	2592x1944	2592x1944
FPS	30fps@2592x1944	30fps@2592x1944	30fps@2592x1944	30fps@2592x1944
Intelligent Video Analytics	√	√	√	√
Audio In/Out	1/1	1/1	1/1	1/1
DI/DO	-	-	-	-
Edge Storage	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC
Power Source	12V, PoE	12V, PoE	12V, PoE	12V, PoE
IP Protection Rating	IP66	IP66	IP66	IP66
IK Rating	IK09	IK09	IK09	IK09
Indoor / Outdoor	Both	Both	Both	Both
Programming I/F	CGI API, ONVIF	CGI API, ONVIF	CGI API, ONVIF	CGI API, ONVIF
Availability	√	√	√	√



3. IPM Series : 4K STARVIS

Model	IPM358-7211IR	IPM358-7311IR	IPM65A08-7315IR	IPM66A08-7511IR
PICTURE				
Image Sensor	1/1.8" 8.5M CMOS	1/1.8" 8.5M CMOS	1/1.8" 8.5M CMOS	1/1.8" 8.5M CMOS
Focal Length	2.8mm(F2.6), 4.0mm(F2.6), 6.0mm(F1.6)	3.6 ~ 10mm(F1.5)	3.6 ~ 10mm(F1.5)	2.3mm, F2.8
Lens Type	Fixed	Two motor MFZ	Two motor MFZ	Fixed
Iris Type	Auto Exposure	P-IRIS	P-IRIS	Auto Exposure
Day and Night	TDN(True day&Night)	TDN(True day&Night)	TDN(True day&Night)	TDN(True day&Night)
Min. Illumination	Color : 0.09Lux BW : 0Lux with IR	Color : 0.09Lux BW : 0Lux with IR	Color : 0.09Lux BW : 0Lux with IR	Color : 0.29Lux BW : 0Lux with IR
WDR	True WDR	True WDR	True WDR	True WDR
Analog Video Out	√	√	√	√
Compression	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG
Maximum Resolution	3840 X 2160	3840 X 2160	3840 X 2160	3840 X 2160
FPS	30fps@3840x2160	30fps@3840x2160	30fps@3840x2160	30fps@3840x2160
Intelligent Video Analytics	√	√	√	√
Audio In/Out	1/1	1/1	1/1	1/1
DI/DO	1/1	1/1	1/1	1/1
Edge Storage	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC
Power Source	12V, PoE	12V, PoE	12V, PoE+	12V, PoE
IP Protection Rating	IP67	IP67	IP67	IP66
IK Rating	IK10	IK10	IK09	IK09
Indoor / Outdoor	Both	Both	Both	Both
Programming I/F	CGI API, ONVIF	CGI API, ONVIF	CGI API, ONVIF	CGI API, ONVIF
Availability	√	√	Oct 2020	√





3. IPM Series : 4K STARVIS

Model	IPM259-7511IR	IPM229-7511	IPM259-7511IR-IM	IPM229-7511-IM
PICTURE				
Image Sensor	1/1.7" 12.4M CMOS (IMX226)	1/1.7" 12.4M CMOS (IMX226)	1/1.7" 12.4M CMOS (IMX226)	1/1.7" 12.4M CMOS (IMX226)
Focal Length	2.1mm(F2.2)	2.1mm(F2.2)	1.2mm(F2.2)	1.2mm(F2.2)
Lens Type	Fixed	Fixed	Fixed (Immervision Enabled)	Fixed (Immervision Enabled)
Iris Type	Auto Exposure	Auto Exposure	Auto Exposure	Auto Exposure
Day and Night	TDN(True day&Night)	TDN(True day&Night)	TDN(True day&Night)	TDN(True day&Night)
Min. Illumination	Color : 0.3Lux BW : 0Lux with IR	Color : 0.3Lux BW : 0.02Lux	Color : 0.3Lux BW : 0Lux with IR	Color : 0.3Lux BW : 0.02Lux
WDR	D-WDR	D-WDR	D-WDR	D-WDR
Analog Video Out	-	-	-	-
Compression	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG
Maximum Resolution	4000 X 3000	4000 X 3000	4000 X 3000	4000 X 3000
FPS	20fps@4000x3000 30fps@3000x3000	20fps@4000x3000 30fps@3000x3000	20fps@4000x3000 30fps@3000x3000	20fps@4000x3000 30fps@3000x3000
Intelligent Video Analytics	√	√	√	√
Audio In/Out	1/1	1/1	1/1	1/1
DI/DO	1/1	1/1	1/1	1/1
Edge Storage	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC
Power Source	12V, PoE	12V, PoE	12V, PoE	12V, PoE
IP Protection Rating	IP66	IP66	IP66	IP66
IK Rating	IK09	IK09	IK09	IK09
Indoor / Outdoor	Both	Both	Both	Both
Programming I/F	CGI API, ONVIF	CGI API, ONVIF	CGI API, ONVIF	CGI API, ONVIF
Availability	√	√	√	√






4. IPN/IPX STARVIS

Model	Full HD(STARVIS)			
	Compact Dome Camera	Box Camera	Dome Cameras	
	IPN302SV-7117	IPN1302SV-7211	IPN3502SV-7311	IPN3502SV-7311IR
Picture				
Image Sensor	SONY STARVIS Exmor 1/2.9" 1080p CMOS	SONY STARVIS Exmor 1/2.9" 1080p CMOS	SONY STARVIS Exmor 1/2.9" 1080p CMOS	SONY STARVIS Exmor 1/2.9" 1080p CMOS
Lens	3.0mm, F2.0	CS Mount	2.8~12.0mm F1.4~F2.6, Remote Zoom/Focus (One Click AF)	2.8~12.0mm F1.4~F2.6, Remote Zoom/Focus (One Click AF)
Day & Night	S/W Day & Night	Removable IR-Cut Filter	Removable IR-Cut Filter	Removable IR-Cut Filter
Minimum Illumination	0.04 Lux (Color, DSS On) 0.006 Lux (B/W, DSS On)	0.03 Lux (Color, DSS On) 0.006 Lux (B/W, DSS On)	0.03 Lux (Color, DSS On) 0.006 Lux (B/W, DSS On)	0.03 Lux (Color, DSS On) 0 Lux (B/W, IR LED On)
WDR	√	√	√	√
Analog Video Out	-	√	-	-
Compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Maximum Resolution	1080p(1920x1080)	1080p(1920x1080)	1080p(1920x1080)	1080p(1920x1080)
*FPS	30fps@1080p	30fps@1080p	30fps@1080p	30fps@1080p
Intelligent Video Analytics	√	√	√	√
Audio In/Out	-	1/1	1/1	1/1
DI/DO	-	1/1	1/1	1/1
microSD Card Slot	√	√	√	√
Power Source	PoE	DC 12V, PoE	DC 12V, PoE	DC 12V, PoE
IP Protection Rating	-	-	IP66	IP66
IK Rating	-	-	IK10	IK10
Indoor / Outdoor	Indoor Only	Indoor Only	Both	Both
ONVIF™	√	√	√	√
Availability	√	√	√	√





4. IPN/IPX STARVIS

Model	Full HD(STARVIS)			
	Bullet Cameras		Repositionable Dome Camera	Speed Dome Camera
	IPN6702SV-7311-H	IPN6702SV-7311-V722-H	IPX3802SV-7315	IPX4602SV-7416A-30
Picture				
Image Sensor	SONY STARVIS Exmor 1/2.9" 1080p CMOS	SONY STARVIS Exmor 1/2.9" 1080p CMOS	SONY STARVIS Exmor 1/2.9" 1080p CMOS	SONY STARVIS Exmor 1/2.9" 1080p CMOS
Lens	2.8~12.0mm F1.4~F2.6, Remote Zoom/Focus (One Click AF)	7.0~22.0mm F1.4~F2.8, Remote Zoom/Focus (One Click AF)	2.8~8.0mm F1.4~F2.6, Remote Zoom/Focus (One Click AF)	30x Optical 4.3mm~129.0mm F1.6~F4.7
Day & Night	Removable IR-Cut Filter	Removable IR-Cut Filter	Removable IR-Cut Filter	Removable IR-Cut Filter
Minimum Illumination	0.03 Lux (Color, DSS On) 0 Lux (B/W, IR LED On)	0.03 Lux (Color, DSS On) 0 Lux (B/W, IR LED On)	0.03 Lux (Color, DSS On) 0.006 Lux (B/W, DSS On)	0.1 Lux (Color, 50 IRE) 0.006 Lux (B/W, 50 IRE)
WDR	√	√	√	√
Analog Video Out	√	√	√	-
Compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Maximum Resolution	1080p(1920x1080)	1080p(1920x1080)	1080p(1920x1080)	1080p(1920x1080)
*FPS	30fps@1080p	30fps@1080p	30fps@1080p	30fps@1080p
Intelligent Video Analytics	√	√	√	√
Audio In/Out	1/1	1/1	1/1	1/1
DI/DO	1/1	1/1	1/1	4/2
microSD Card Slot	√	√	√	√
Power Source	DC 12V, PoE+	DC 12V, PoE+	DC 12V, PoE+	AC 24V, PoE+
IP Protection Rating	IP66	IP66	IP66	IP66
IK Rating	-	-	IK10	IK10
Indoor / Outdoor	Both	Both	Both	Both
ONVIF™	√	√	√	√
Availability	√	√	√	√




5. IPN/IPX Non STARVIS

Model	Full HD (Non STARVIS)				
	Compact Cameras		Pinhole Cameras	Box Camera	IR Bullet Camera
	IPN362HD-6211IR	IPN3202HD-6111 IPN3202HD-6111W	IPN8102HD-6111T IPN8102HD-6111W IPN8102HD-6111-F26	IPN1402HD-6117	IPN6702HD-6311Z
Picture					
Image Sensor	SONY Exmor 1/2.9" 1080p CMOS	SONY Exmor 1/2.9" 1080p CMOS	1/3" 1080p CMOS	SONY Exmor 1/2.9" 1080p CMOS	SONY Exmor 1/2.9" 1080p CMOS
Lens	3.6mm, F2.0	4mm, F2.0 (IPN3202HD-6111) 2.97mm, F2.0 (IPN3202HD-6111W)	3.7mm, F2.5 (IPN8102HD-6111T) 2.8mm, F2.4 (IPN8102HD-6111W) 2.6mm, F2.8 (IPN8102HD-6111-F26)	CS Mount	2.8~12.0mm F1.4~F2.6, Remote Zoom/Focus (One Click AF)
Day & Night	Removable IR-cut Filter	S/W Day & Night	S/W Day & Night	Removable IR-cut Filter	Removable IR-cut Filter
Minimum Illumination	0.5 Lux (Color) 0 Lux (B/W, IR LED On)	1.0 Lux (Color) 0.001 Lux (B/W, DSS On)	1.4Lux(Color) 0.01Lux(B/W, DSS On)	0.5 Lux (Color) 0.001 Lux (B/W, DSS On)	0.5 Lux (Color) 0 Lux (B/W, IR LED On)
WDR	√	√	√	√	√
Analog Video Out	-	-	-	√	√
Compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Maximum Resolution	1080p(1920x1080)	1080p(1920x1080)	1080p(1920x1080)	1080p(1920x1080)	1080p(1920x1080)
FPS	30fps@1080p	30fps@1080p	30fps@1080p	30fps@1080p	30fps@1080p
Intelligent Video Analytics	√	√	√	√	√
Audio In/Out	-	-	-	-	-
DI/DO	-	1/1	1/1	-	1/1
microSD Card Slot	√	√	√	√	√
Power Source	DC 12V, PoE	DC 12V, PoE	DC 12V, PoE	PoE	DC 12V, PoE
IP Protection Rating	IP66	-	-	-	IP66
IK Rating	IK10	-	-	-	-
Indoor / Outdoor	Both	Indoor Only	Indoor Only	Indoor Only	Both
ONVIF™	√	√	√	√	√
Availability	√	√	√	√	√

5. IPN/IPX Non STARVIS




Model	Full HD (Non STARVIS)			
	Dome Cameras			
	IPN3512HD-6311	IPN3512HD-6311IR	IPN3402HD-6211IR	IPN3402HD-6311IR
Picture				
Image Sensor	SONY Exmor 1/2.9" 1080p CMOS	SONY Exmor 1/2.9" 1080p CMOS	SONY Exmor 1/2.9" 1080p CMOS	SONY Exmor 1/2.9" 1080p CMOS
Lens	2.8~12.0mm F1.4~F2.6, Remote Zoom/Focus (One Click AF)	2.8~12.0mm F1.4~F2.6, Remote Zoom/Focus (One Click AF)	4.3mm, F2.0	3.0mm~9.0mm F1.2~F2.3, Remote Zoom/Focus (One Click AF)
Day & Night	Removable IR-cut Filter	Removable IR-cut Filter	Removable IR-cut Filter	Removable IR-cut Filter
Minimum Illumination	0.5 Lux (Color) 0.001 Lux (B/W, DSS On)	0.5 Lux (Color) 0 Lux (B/W, IR LED On)	1.0 Lux (Color) 0 Lux (B/W, IR LED On)	0.5 Lux (Color) 0 Lux (B/W, IR LED On)
WDR	√	√	√	√
Analog Video Out	-	-	√	√
Compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Maximum Resolution	1080p(1920x1080)	1080p(1920x1080)	1080p(1920x1080)	1080p(1920x1080)
*FPS	30fps@1080p	30fps@1080p	30fps@1080p	30fps@1080p
Intelligent Video Analytics	√	√	√	√
Audio In/Out	-	-	-	-
DI/DO	1/1	1/1	-	-
microSD Card Slot	√	√	√	√
Power Source	DC 12V, PoE	DC 12V, PoE	DC 12V, PoE	DC 12V, PoE
IP Protection Rating	IP66	IP66	-	-
IK Rating	IK10	IK10	-	-
Indoor / Outdoor	Both	Both	Indoor Only	Indoor Only
ONVIF™	√	√	√	√
Availability	√	√	√	√


5. IPN/IPX Non STARVIS

Model	Full HD (Non STARVIS)		
	360 Degree Cameras		
	IPN2103HD-6511	IPN2103HD-6511U	IPN2103HD-6611
Picture			
Image Sensor	1/2.5" 5Megapixel CMOS	1/2.5" 5Megapixel CMOS	1/2.5" 5Megapixel CMOS
Lens	1.2mm, F2.0 (ImmerVision Enables Lens)	1.2mm, F2.0	1.12mm, F2.0 (ImmerVision Enables Lens)
Day & Night	S/W Day & Night	S/W Day & Night	S/W Day & Night
Minimum Illumination	1.0 Lux (Color) 0.001 Lux (B/W, DSS On)	1.0 Lux (Color) 0.001 Lux (B/W, DSS On)	1.0 Lux (Color) 0.001 Lux (B/W, DSS On)
WDR	√	√	√
Analog Video Out	√	√	√
Compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Maximum Resolution	2048x1536 [4:3 mode] 1920x1080 [16:9 mode]	2048x1536 [4:3 mode] 1920x1080 [16:9 mode]	2048x1536 [4:3 mode] 1920x1080 [16:9 mode]
*FPS	14fps [4:3 mode] 30fps [16:9 mode]	14fps [4:3 mode] 30fps [16:9 mode]	14fps [4:3 mode] 30fps [16:9 mode]
Intelligent Video Analytics	√	√	√
Audio In/Out	1/1	1/1	1/1
DI/DO	1/1	1/1	1/1
microSD Card Slot	√	√	√
Power Source	DC 12V, PoE	DC 12V, PoE	DC 12V, PoE
IP Protection Rating	-	-	-
IK Rating	-	-	-
Indoor / Outdoor	Indoor Only	Indoor Only	Indoor Only
ONVIF™	√	√	√
Availability	√	√	√

*Intelligent Video Analytics (Video Contents Analytics, VCA) off
Specifications subject to change without prior notice

6. Network Encoders

Model	Network Encoders		
	Stand-alone		Blade
	NVN1100	NVN4100	NVN4100-R12/R40
Picture			
Video Input	1ch	4ch	4ch
Compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
FPS per Channel	25/30fps	25/30fps	25/30fps
Maximum Resolution	D1(720x576/720x480)	D1(720x576/720x480)	D1(720x576/720x480)
Intelligent Video Analytics	Optional	Optional	Optional
Audio In/Out	1/1	4/1	4/1
DI / DO	2/2	4/4	4/4
USB 2.0	-	-	-
microSD Card Slot	√	√	-
Power Source	DC 12V, PoE	DC 12V	DC 12V
ONVIF™	√	√	√
Availability	√	√	√


Model	Rack Solutions	
	NVE12K	NVE40K
	Picture	
Number of Slots	3	10
Supported Blades	NVC4000 - R12 NVN4100 - R12	NVC4000 - R40 NVN4100 - R40
Maximum Number of Channels	12	40
Rack Size	1U	4U
Rack Width	19"	19"
Built-in Power Supply	√	√
Number of Power Supply	1	2(Hot Swappable)
Number of Fan	2	3(Hot Swappable)
Availability	√	√

7. Thermal Camera/ People Tracker / Bridge


** ITS Series

Model	Compact Thermal Cameras	
	ITS651LD-A20	ITS651LD-A36
Picture		
Image Sensor	12 μ m Uncooled Vanadium Oxide Microbolometer	12 μ m Uncooled Vanadium Oxide Microbolometer
Lens	22° FOV (ITS651LD-A20)	36° FOV (ITS651LD-A36)
Spectral Response	7.8~14 μ m	7.8~14 μ m
Minimum Illumination	Less than 100mK	Less than 100mK
Analog Video Out	-	-
Compression	H.264, MJPEG	H.264, MJPEG
Maximum Resolution	206 x 156 (Scalable to XGA)	206 x 156 (Scalable to XGA)
FPS	Max. 9 Hz	Max. 9 Hz
Intelligent Video Analytics	√	√
Audio In/Out	1/1	1/1
DI/DO	1/2	1/2
microSD Card Slot	√	√
Power Source	DC 12V, PoE	DC 12V, PoE
IP Protection Rating	IP66	IP66
IK Rating	-	-
Indoor / Outdoor	Both	Both
ONVIF™	√	√
Availability	√	√

** IPT Series

Model	People Tracker
	IP2500MR IPT2500SR
Picture	
Illuminator	VCSEL – Class 1 Laser certificate
Image Type	Monochrome (Infra-red)
Effective Pixels	320 x 240
Detection Range	0.2 – 2.5m (10FPS) (IPT2500SR) 2 - 7m (10FPS) (IPT2500MR)
FOV	Less than 100mK
FPS	10FPS
Intelligent Video Analytics	√
microSD Card Slot	√
Power Source	DC12V, Ultra PoE(60W)
Laser Safety Standard	Class 1 Laser
Indoor / Outdoor	Both
ONVIF™	√
Availability	√

** VCAbridge

Model	VCAbridge
	VCA3510BR
Picture	
Browser	Chrome
Clients	PC
No. of Channels	4 channels@1080p30 8 channels@720p30 16 channels@D1 30fps
Video Format	H.264, MJPEG
Video Input Method	RTSP, ONVIF, supported VMS/NVR*/PSIM* platforms
Output Data Format	Events (TCP*, HTTP*, SMTP, VMS/NVR/PSIM client) Metadata (XML, JSON)*
Web Interface	HTML5 via embedded web server, no plugins necessary
API*	RESTful API for 3rd party integration and customization
Diagnostics	Camera tamper alert Loss of video input connection alert
Intelligent Video Analytics	√
DI / DO	4/4
RS-485	2
Availability	√

* Please check the availability with your account manager



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