

# PRODUCT GUIDE

August-2021



# Contents

- 3p. 1. IPM Series : 2Megapixel STARVIS
- 5p. 2. IPM Series : 5Megapixel STARVIS
- 8p. 3. IPM Series : 4K STARVIS
- 10p. 4. IPM Series : Multi-Sensor
- 11p. 5. ITS Series : Thermal Camera
- 12p. 6. Network Encoders

## 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	IP67	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	IPM652-7211R	IPM65A02-7311R	IPM65A02-7311R-V650	IPM45A02-7417R-30	IPM382-7315-03
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	1/2.8" 2.1M CMOS
Focal Length	4.0mm(F2.6)	2.8~12mm(F1.4)	6~50mm(F1.6)	4.3 ~ 129mm(F1.6 ~ F4.7)	2.8~8mm(F1.95 ~ F2.65)
Lens Type	Fixed	Two motor MFZ	Two motor MFZ	30x Zoom Lens	Two motor MFZ (3X)
Iris Type	Auto Exposure	P-IRIS	P-IRIS	Auto IRIS	Auto Exposure
Day and Night	TDN(True day&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	Color : 0.03Lux BW : 0.006Lux
WDR	True 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	H.264, H.265, MJPEG
Maximum Resolution	1920 X 1080	1920 X 1080	1920 X 1080	1920 X 1080	1920 X 1080
FPS	30fps@1080p	30fps@1080p	30fps@1080p	30fps@1080p	30fps@1080p
Intelligent Video Analytics	√	√	√	without VCA	without VCA
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	Micro SD, Micro SDHC, Micro SDXC
Power Source	DC12V, PoE	DC12V, PoE	DC12V, PoE	AC24V, Ultra PoE	DC12V, PoE+
IP Protection Rating	IP67	IP67	IP67	IP66	IP66
IK Rating	-	IK09	IK09	IK10	IK10
Indoor / Outdoor	Both	Both	Both	Both	Both
Programming I/F	CGI API, ONVIF	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	IP67	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	1/2.8" 8.29M CMOS	1/2.8" 8.29M CMOS	1/2.8" 8.29M CMOS	1/1.8" 8.5M CMOS
Focal Length	2.8mm(F2.0), 4.0mm(F2.6), 6.0mm(F1.6)	2.7 ~ 13.5mm(F1.4)	2.7 ~ 13.5mm(F1.4)	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 : 0.18Lux 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	IP67
IK Rating	IK10	IK10	IK10	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	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. IPM Series : Multi-Sensor

Model	IPM95A20-7315	IPM95A10-7315IR
PICTURE		
Image Sensor	1/2.8" 5.14M CMOS x 4	1/2.8" 5.14M CMOS x 2
Focal Length	2.8mm ~ 8mm(F1.6)	2.7mm ~ 13.5mm(F1.4)
Lens Type	Two motor MFZ	Two motor MFZ
Iris Type	Auto Exposure	P-IRIS
Day and Night	TDN(True day&Night)	TDN(True day&Night)
Min. Illumination	Color : 0.13Lux BW : 0.005Lux	Color : 0.08Lux BW : 0.0Lux with IR
WDR	True WDR	True WDR
Analog Video Out	√(1)	√(1)
Compression	H.264, H.265, MJPEG	H.264, H.265, MJPEG
Maximum Resolution	2592 X 1944	2592 X 1944
FPS	30fps@2592x1944	30fps@2592x1944
Intelligent Video Analytics	√	√
Audio In/Out	1/1(1st camera)	1/1(1st camera)
DI/DO	1/1(1st camera)	1/1(1st camera)
Edge Storage	4 slots (Micro SD, Micro SDHC, Micro SDXC)	2 slots (Micro SD, Micro SDHC, Micro SDXC)
Power Source	12V, Ultra PoE(IEEE 802.3bt Class5)	12V, PoE+(IEEE 802.3at Class4)
IP Protection Rating	IP67	IP67
IK Rating	IK10	IK10
Indoor / Outdoor	Both	Both
Programming I/F	CGI API, ONVIF	CGI API, ONVIF
Availability	Sep 2021	Oct 2021

## 5. Thermal Camera

Model	Compact Thermal Cameras	
	ITS652LD-A35	ITS652QD-A56
Picture		
Image Sensor	12 $\mu\text{m}$ Uncooled Sun-Safe Vanadium Oxide Microbolometer	12 $\mu\text{m}$ Uncooled Sun-Safe Vanadium Oxide Microbolometer
HFOV	35°	56°
Spectral Response	7.8~14 $\mu\text{m}$	7.8~14 $\mu\text{m}$
Sensitivity (NETD)	65mK(Typical), Less than 100mK(max) @ 25°C	65mK(Typical), Less than 100mK(max) @ 25°C
Analog Video Out	√	√
Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Array size (Resolution)	200 x 150	320 x 240
FPS	Max. 9fps in all resolutions	Max. 9fps in all resolutions
Intelligent Video Analytics	√	√
Audio In/Out	1/1	1/1
DI/DO	1/1	1/1
Edge Storage	Micro SD slot(SD/SDHC/SDXC)	Micro SD slot(SD/SDHC/SDXC)
Power Source	12VDC, PoE(IEEE 802.3af)	12VDC, PoE(IEEE 802.3af)
IP Protection Rating	IP66	IP66
IK Rating	-	-
Indoor / Outdoor	Both	Both
ONVIF™	√	√
Availability	√	√

## 6. Network Encoders

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



UDP Technology Ltd.  
717, 10, Magokjungang 1-ro, Gangseo-gu, Seoul  
07807, KOREA  
TEL : +82-2-2605-1486  
Email : sales@udptechnology.com