

IPELA ENGINE EX™ V Series Cameras

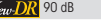
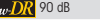
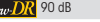
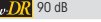
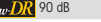
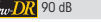


Model name	IPELA ENGINE EX™ V Series Cameras										
	SNC-VM631	SNC-VM630	SNC-VM601	SNC-VM600	SNC-VM601B	SNC-VM600B	SNC-VM632	SNC-VM602	SNC-VB630	SNC-VB600	SNC-VB600B
											
Video compression format	H.264 (High/Main/Baseline Profile)/JPEG										
Codec streaming capability	Triple streaming (any combination with H.264/JPEG, including multiple streams of the same format), CBR/VBR (selectable)										
Computer display format			HD ^(*)	HD ^(*)	HD ^(*)	HD ^(*)		HD ^(*)		HD ^(*)	HD ^(*)
Maximum resolution	1920 x 1080	1920 x 1080	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024	1920 x 1080	1280 x 1024	1920 x 1080	1280 x 1024	1280 x 1024
Outdoor use/Ingress protection	No	No	No	No	No	No	IP66	IP66	No	No	No
Vandal resistant	IK10	No	IK10	No	IK10	No	IK10	IK10	N/A	N/A	N/A
IR illuminators	No	No	No	No	No	No	Yes	Yes	No	No	No
Horizontal viewing angle	105.2° to 35.4°	105.2° to 35.4°	93.0° to 31.6°	93.0° to 31.6°	93.0° to 31.6°	93.0° to 31.6°	105.2° to 35.4°	93.0° to 31.6°	114.2° to 40.0°	100.0° to 35.7°	100.0° to 35.7°
Optical zoom ratio	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom
Focal length	f=3.0 mm to 9.0 mm	f=3.0 mm to 9.0 mm	f=3.0 mm to 9.0 mm	f=3.0 mm to 9.0 mm	f=3.0 mm to 9.0 mm	f=3.0 mm to 9.0 mm	f = 3.0 mm to 9.0 mm	f = 3.0 mm to 9.0 mm	f = 2.8 mm to 8.0 mm	f = 2.8 mm to 8.0 mm	f = 2.8 mm to 8.0 mm
Lens Mount	Built-in vari-focal lens	Built-in vari-focal lens	Built-in vari-focal lens	Built-in vari-focal lens	Built-in vari-focal lens	Built-in vari-focal lens	Built-in vari-focal lens	Built-in vari-focal lens	CS mount	CS mount	CS mount
Imager	1/2.9-type progressive scan Exmor™ CMOS sensor	1/2.9-type progressive scan Exmor™ CMOS sensor	1/3-type progressive scan Exmor™ CMOS sensor	1/3-type progressive scan Exmor™ CMOS sensor	1/3-type progressive scan Exmor™ CMOS sensor	1/3-type progressive scan Exmor™ CMOS sensor	1/2.9-type progressive scan Exmor™ CMOS sensor	1/3-type progressive scan Exmor™ CMOS sensor	1/2.9-type progressive scan Exmor™ CMOS sensor	1/3-type progressive scan Exmor™ CMOS sensor	1/3-type progressive scan Exmor™ CMOS sensor
Minimum illumination	Color: 0.1 lx, B/W: 0.07 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps)	Color: 0.1 lx, B/W: 0.07 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps)	Color: 0.1 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps) B/W: 0 lx (IR ON)	Color: 0.05 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps)	Color: 0.1 lx, B/W: 0.07 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps)
Maximum frame rate	60 fps (H.264) at 1920 x 1080, 60 fps (JPEG) at 1280 x 720	60 fps (H.264) at 1920 x 1080, 60 fps (JPEG) at 1280 x 720	60 fps (H.264/JPEG) at 1280 x 1024	60 fps (H.264/JPEG) at 1280 x 1024	60 fps (H.264/JPEG) at 1280 x 1024	60 fps (H.264/JPEG) at 1280 x 1024	60 fps (H.264) at 1920 x 1080, 60 fps (JPEG) at 1280 x 720	60 fps (H.264/JPEG) at 1280 x 1024	60 fps (H.264) at 1920 x 1080, 60 fps (JPEG) at 1280 x 720	60 fps (H.264/JPEG) at 1280 x 1024	60 fps (H.264/JPEG) at 1280 x 1024
Day/Night	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)
Wide-D/Dynamic Range	Yes /  90dB	Yes /  90dB	Yes /  130dB	Yes /  130dB	Yes /  130dB	Yes /  130dB	Yes /  90dB	Yes /  130dB	Yes /  90dB	Yes /  130dB	Yes /  130dB
Visibility Enhancer (VE)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Noise reduction											
Image stabilization	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Card slot(s)	SC card x 1; SDXC type	SC card x 1; SDXC type	SC card x 1; SDXC type	SC card x 1; SDXC type	SC card x 1; SDXC type	SD card x 1	SC card x 1; SDXC type	SC card x 1; SDXC type	SC card x 1; SDXC type	SC card x 1; SDXC type	SC card x 1; SDXC type
Wireless capability	No	No	No	No	No	No	No	No	No	No	No
Composite video output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DEPA™ (Intelligence)											
Audio capability	Yes, bi-directional AAC	Yes, bi-directional AAC	Yes, bi-directional AAC	Yes, bi-directional AAC	Yes, bi-directional AAC	Yes, bi-directional AAC	Yes, bi-directional AAC	Yes, bi-directional AAC	Yes, bi-directional AAC	Yes, bi-directional AAC	Yes, bi-directional AAC
ONVIF conformance	 (Profile S)	 (Profile S)	 (Profile S)	 (Profile S)	 (Profile S)	 (Profile S)	 (Profile S)	 (Profile S)	 (Profile S)	 (Profile S)	 (Profile S)
Power requirement	PoE (IEEE 802.3af), AC 24 V, DC 12 V	PoE (IEEE 802.3af), AC 24 V, DC 12 V	PoE (IEEE 802.3af), AC 24 V, DC 12 V	PoE (IEEE 802.3af), AC 24 V, DC 12 V	PoE (IEEE 802.3af), AC 24 V, DC 12 V	PoE (IEEE 802.3af), AC 24 V, DC 12 V	HPoE (IEEE 802.3af), AC 24 V, DC 12 V	HPoE (IEEE 802.3af), AC 24 V, DC 12 V	PoE (IEEE 802.3af), AC 24 V, DC 12 V	PoE (IEEE 802.3af), AC 24 V, DC 12 V	PoE (IEEE 802.3af), AC 24 V, DC 12 V
Power consumption	6.0 W max.	6.0 W max.	6.0 W max.	6.0 W max.	6.0 W max.	6.0 W max.	TBD	TBD	6.0 W max.	6.0 W max.	6.0 W max.
Dimensions	ø5 7/8 x 4 3/8 inches (ø148 x 108 mm)	ø5 7/8 x 4 3/8 inches (ø148 x 108 mm)	ø5 7/8 x 4 3/8 inches (ø148 x 108 mm)	ø5 7/8 x 4 3/8 inches (ø148 x 108 mm)	ø5 7/8 x 4 3/8 inches (ø148 x 108 mm)	ø5 7/8 x 4 3/8 inches (ø148 x 108 mm)	ø6 5/8 x 5 1/8 inches (ø166 x 129 mm)	ø6 5/8 x 5 1/8 inches (ø166 x 129 mm)	2 7/8 x 2 1/2 x 7 7/8 inches (72 x 63 x 197 mm) with lens	2 7/8 x 2 1/2 x 7 7/8 inches (72 x 63 x 197 mm) with lens	2 7/8 x 2 1/2 x 7 7/8 inches (72 x 63 x 197 mm) with lens

(*) Definition of HD: More than 720p with H.264 streaming capability at more than 30 fps.

IPELA ENGINE EX™ E Series Cameras



Model Name	SNC-EB630	SNC-EB600	SNC-EB630B	SNC-EB600B	SNC-EM630	SNC-EM600	SNC-EM631	SNC-EM601	SNC-EM632	SNC-EM602
										
Video compression format	H.264 (High/Main/Baseline Profile)/JPEG									
Codec Streaming Capability	Triple streaming (any combination with H.264/JPEG, including multiple streams of the same format), CBR/VBR (selectable)									
Computer Display Format	Full HD 1080	HD (*)	Full HD 1080	HD (*)	Full HD 1080	HD (*)	Full HD 1080	HD (*)	Full HD 1080	HD (*)
Maximum Resolution	1920 x 1080	1280 x 1024	1920 x 1080	1280 x 1024	1920 x 1080	1280 x 1024	1920 x 1080	1280 x 1024	1920 x 1080	1280 x 1024
Infrared Illuminators	No	No	No	No	No	No	No	No	Yes	Yes
Ingress Protection	No	No	No	No	No	No	No	No	IP66	IP66
Vandal Resistant	No	No	No	No	No	No	IK10	IK10	IK10	IK10
Horizontal Viewing Angle	114.2° to 40.0°	100.0° to 35.7°	114.2° to 40.0°	100.0° to 35.7°	105.2° to 35.4°	93.0° to 31.6°	105.2° to 35.4°	93.0° to 31.6°	105.2° to 35.4°	93.0° to 31.6°
Zoom Ratio	2.9x optical zoom	2.7x optical zoom	2.9x optical zoom	2.7x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom
Focal Length	f = 2.8 mm to 8.0 mm	f = 3.0 mm to 8.0 mm	f = 2.8 mm to 8.0 mm	f = 3.0 mm to 8.0 mm	f = 3.0 mm to 9.0 mm	f = 3.0 mm to 9.0 mm	f = 3.0 mm to 9.0 mm	f = 3.0 mm to 9.0 mm	f = 3.0 mm to 9.0 mm	f = 3.0 mm to 9.0 mm
Lens	CS mount vari-focal lens	CS mount vari-focal lens	CS mount vari-focal lens	CS mount vari-focal lens	Built-in vari-focal lens	Built-in vari-focal lens	Built-in vari-focal lens	Built-in vari-focal lens	Built-in vari-focal lens	Built-in vari-focal lens
Image Device	1/2.9-type progressive scan Exmor™ CMOS sensor	1/3-type progressive scan Exmor™ CMOS sensor	1/2.9-type progressive scan Exmor™ CMOS sensor	1/3-type progressive scan Exmor™ CMOS sensor	1/2.9-type progressive scan Exmor™ CMOS sensor	1/3-type progressive scan Exmor™ CMOS sensor	1/2.9-type progressive scan Exmor™ CMOS sensor	1/3-type progressive scan Exmor™ CMOS sensor	1/2.9-type progressive scan Exmor™ CMOS sensor	1/3-type progressive scan Exmor™ CMOS sensor
Wide-D/ynamic Range	Yes  90 dB	Yes  90 dB	Yes  90 dB	Yes  90 dB	Yes  90 dB	Yes  90 dB	Yes  90 dB	Yes  90 dB	Yes  90 dB	Yes  90 dB
Image Enhancement	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)
Minimum Illumination	Color: 0.1 lx, B/W: 0.07 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps)	Color: 0.1 lx, B/W: 0.07 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps)	Color: 0.1 lx, B/W: 0.07 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps)	Color: 0.1 lx, B/W: 0.07 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps)	Color: 0.1 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps) B/W: 0 lx (IR ON)	Color: 0.05 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE, 30 fps) B/W: 0 lx (IR ON)
Maximum Frame Rate	30 fps (H.264/JPEG) at 1920 x 1080	30 fps (H.264/JPEG) at 1280 x 1024	30 fps (H.264/JPEG) at 1920 x 1080	30 fps (H.264/JPEG) at 1280 x 1024	30 fps (H.264/JPEG) at 1920 x 1080	30 fps (H.264/JPEG) at 1280 x 1024	30 fps (H.264/JPEG) at 1920 x 1080	30 fps (H.264/JPEG) at 1280 x 1024	30 fps (H.264) at 1920 x 1080, 30 fps (JPEG) at 1280 x 720	30 fps (H.264/JPEG) at 1280 x 1024
Day/Night	Yes (True D/N)	Yes (True D/N)	Yes (Electronic D/N)	Yes (Electronic D/N)	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)
Noise Reduction	XDNR™	XDNR™	XDNR™	XDNR™	XDNR™	XDNR™	XDNR™	XDNR™	XDNR™	XDNR™
Image Stabilizer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Card Slots	No	No	No	No	No	No	No	No	No	No
Wireless Capability	No	No	No	No	No	No	No	No	No	No
Composite Video Output	No	No	No	No	No	No	No	No	No	No
Analog Monitor Output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Scene Analytics										
Intelligent Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Face Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rule-based Filter	DEPA™ Advanced	DEPA™ Advanced	DEPA™ Advanced	DEPA™ Advanced	DEPA™ Advanced	DEPA™ Advanced	DEPA™ Advanced	DEPA™ Advanced	DEPA™ Advanced	DEPA™ Advanced
ONVIF Conformance	 (Profile S)	 (Profile S)	 (Profile S)	 (Profile S)	 (Profile S)	 (Profile S)	 (Profile S)	 (Profile S)	 (Profile S)	 (Profile S)
Audio capability	No	No	No	No	No	No	No	No	No	No
Power Requirements	PoE (IEEE 802.3af) 6 W max.	PoE (IEEE 802.3af) 6 W max.	PoE (IEEE 802.3af) 6 W max.	PoE (IEEE 802.3af) 6 W max.	PoE (IEEE 802.3af) 6 W max.	PoE (IEEE 802.3af) 6 W max.	PoE (IEEE 802.3af) 6 W max.	PoE (IEEE 802.3af) 6 W max.	HPoE (IEEE 802.3af), 6 W max.	HPoE (IEEE 802.3af) 6 W max.
Power Consumption	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Operating Temperature	14°F to 122°F (-10°C to +50°C)	14°F to 122°F (-10°C to +50°C)	14°F to 122°F (-10°C to +50°C)	14°F to 122°F (-10°C to +50°C)	14°F to 122°F (-10°C to +50°C)	14°F to 122°F (-10°C to +50°C)	14°F to 122°F (-10°C to +50°C)	14°F to 122°F (-10°C to +50°C)	-40°F to +122°F (-40°C to +50°C) (*)	-40°F to +122°F (-40°C to +50°C) (*)
Dimensions	2 7/8 x 2 1/2 x 7 7/8 inches (72 x 63 x 199 mm) with lens	2 7/8 x 2 1/2 x 7 1/2 inches (72 x 63 x 188 mm) with lens	2 7/8 x 2 1/2 x 7 7/8 inches (72 x 63 x 199 mm) with lens	2 7/8 x 2 1/2 x 7 1/2 inches (72 x 63 x 188 mm) with lens	ø5 7/8 x 4 3/8 inches (ø148 x 108 mm)	ø5 7/8 x 4 3/8 inches (ø148 x 108 mm)	ø5 7/8 x 4 3/8 inches (ø148 x 108 mm)	ø5 7/8 x 4 3/8 inches (ø148 x 108 mm)	ø5 7/8 x 5 1/8 inches (ø166 x 129 mm)	ø5 7/8 x 5 1/8 inches (ø166 x 129 mm)

(*) Definition of HD: Vertical resolution of more than 720 pixels, and streaming capability of more than 30/25 fps at 1280 x 720 pixels. (**) Operating condition details are not yet finalized.