	3-Megapixel Camera Series			3-Megapixel Low Lux Camera Series			
HDTV 1080P 30fps	OB-300Ap WOB-300Ap GOB-300Ap	OB-302Ap	OB-302Ae / WOB-302Ae Sep	FB-300Np	FB-300Np V2	FD-300Np Oct	FD-302Np Oct
	3G p	p	e	3G Option p	p	p	p
Hardware							
Flash/Memory	32MB/256MB	32MB/256MB	32MB/256MB	32MB/ 256MB	32MB/ 256MB	32MB/ 256MB	32MB/ 256MB
Image Sensor	CMOS	CMOS	CMOS	Sony Exmor™ CMOS Sensor & ISP	Sony Exmor™ CMOS Sensor & ISP	Sony Exmor™ CMOS Sensor & ISP	Sony Exmor™ CMOS Sensor & ISP
Sensor Size	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
S/N Ratio	38.1dB	38.1dB	38.1dB	>50dB	>50dB	>50dB	>50dB
Shutter Speed	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/24000 s ~ 1/5 s	1/10000 s ~ 1/5 s	1/10000 s ~ 1/5 s	1/10000 s ~ 1/5 s
Max. Resolution	2048x1536	2048x1536	2048x1536	2048x1536	2048x1536	2048x1536	2048x1536
Lens Included	Yes	Yes	Yes	No	No	Yes	Yes
Lens Mount	Board Mount	Board Mount	Board Mount	CS Mount	CS Mount	Board Mount	Board Mount
Focal Length	f=3~10.5mm	f=3.3~10.5mm	f=3.3~10.5mm	-	-	f=3~10.5mm	f=3.3 ~10.5mm
F Value	F1.4	F1.4	F1.4	-	-	F1.4	F1.4
View Angle H/V/D	75°~26°/56°~20°/93°~32°	70°~26°/51°~20°/88°~32°	70°~26°/51°~20°/88°~32°	-	-	82°~31°/60°~24°/104°~38°	82°~31°/60°~24°/104°~38°
Min. Illumination	0 lux(IR ON,B/W) 2 lux(F1.4,Color)	0 lux(IR ON,B/W) 2 lux(F1.4,Color)	0 lux(IR ON,B/W) 2 lux(F1.4,Color)	0.01 lux(F1.3,B/W) 0.05 lux(F1.3,Color)	0.01 lux(F1.3,B/W) 0.03 lux(F1.3,Color)	0 lux(IR ON,B/W) 0.1 lux(F1.4,Color)	0 lux(IR ON,B/W) 0.1 lux(F1.4,Color)
Auto Iris Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Infrared LED/Distance	24pcs/15m	24pcs/15m	21pcs/15m	-	-	12pcs/10m	12pcs/10m
Mechanical ICR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PIR/White LED	-	-	-	-	-	-	-
Multiple Video Streaming	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Frame Rate (fps)	30 (1M 720p), 30 (2M 1080p), 18 (3M)	30 (1M 720p), 30 (2M 1080p), 18 (3M)	30 (1M 720p), 30 (2M 1080p), 18 (3M)	30 (1M 720p), 30 (2M 1080p), 15 (3M)	30 (1M 720p), 30 (2M 1080p), 15 (3M)	25 (1M 720p), 25 (2M 1080p), 15 (3M)	25 (1M 720p), 25 (2M 1080p), 15 (3M)
Audio (G.711/AMR)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Streaming	2 way	2 way	2 way	2 way	2 way	2 way	2 way
Audio In/Out	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Built-in Microphone/Speaker	-	-	-	-	Built-in Mic	-	-
DI/DO	Yes(1/1)	Yes(1/1)	Yes(1/1)	Yes(1/1)	Yes(1/1)	Yes(1/1)	Yes(1/1)
RS-485	Yes	Yes	Yes	Yes	Yes	-	-
Analog Video Out	Yes	Yes	-	Yes	-	Yes	Yes
Wireless	802.11a/b/g/n*	-	802.11b/g/n*	-	-	-	-
HW WPS Button	Yes*	-	-	-	-	-	-
Local Storage	Micro SD/SDHC/SDXC Slot Max.64G	Micro SD/SDHC/SDXC Slot Max.64G	Micro SD/SDHC/SDXC Slot Max.64G	Micro SD/SDHC/SDXC Slot Max.64G	SD/SDHC/SDXC Slot Max.64G	SD/SDHC/SDXC Slot Max.64G	SD/SDHC/SDXC Slot Max.64G
Environment	Outdoor (IP67)	Outdoor (IP67)	Outdoor (IP66)	Indoor	Indoor	Indoor	Indoor
Power Input/ Operating Temperature	DC 12V/802.3af PoE (-20°C~50°C) 802.3at PoE (-40°C~50°C)	DC 12V/ 802.3af PoE(-20°C~50°C) 802.3at PoE(-40°C~50°C)	DC 12V/ 802.3af PoE(-20°C~50°C)	DC 12V (0°C ~ 50°C) 802.3af PoE (0°C ~ 50°C)	DC 12V/AC 24V (0°C ~ 50°C) 802.3af PoE (0°C ~ 50°C)	DC 12V/AC 24V (0°C ~ 50°C) 802.3af PoE (0°C ~ 50°C)	DC 12V/AC 24V (0°C ~ 50°C) 802.3af PoE (0°C ~ 50°C)
Operating Humidity	10%~80%	10%~80%	10%~80%	10% ~ 80%	10% ~ 80%	10% ~ 80%	10% ~ 80%
Others							
	*WOB-300Ap only UMTS/HSUPA 850/1900/2100 (for GOB) SmartFocus Support		*WOB-302Ae only		FocusEasy™ Support	SmartFocus Support 3 axis design	3 axis design FocusEasy™ Support

	3-Megapixel Low Lux Camera Series						1.3-Megapixel
HDTV 1080P 30fps	VD-300Np	VD-302Np	MD-300Np	OB-300Np WOB-300Np GOB-300Np	OB-302Np	OB-302Ne / WOB-302Ne Aug.	FB-130Np / WFB-130Np
	p	p	p	WiFi 3G p	p	WiFi e	p
Hardware							
Flash/Memory	32MB/ 256MB	32MB/ 256MB	32MB/ 256MB	32MB/ 256MB	32MB/ 256MB	32MB/ 256MB	16MB/ 128MB
Image Sensor	Sony Exmor™ CMOS Sensor & ISP	Sony Exmor™ CMOS Sensor & ISP	Sony Exmor™ CMOS Sensor & ISP	Sony Exmor™ CMOS Sensor & ISP	Sony Exmor™ CMOS Sensor & ISP	Sony Exmor™ CMOS Sensor & ISP	Sony Exmor™ CMOS Sensor & ISP
Sensor Size	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/3" CMOS
S/N Ratio	>50dB	>50dB	>50dB	>50dB	>50dB	>50dB	>50dB
Shutter Speed	1/10000 s ~ 1/5 s	1/10000 s ~ 1/5 s	1/10000 s ~ 1/5 s	1/10000 s ~ 1/5 s	1/10000 s ~ 1/5 s	1/10000 s ~ 1/5 s	1/32000 s ~ 1 s
Max. Resolution	2048x1536	2048x1536	2048x1536	2048x1536	2048x1536	2048x1536	1280x1024
Lens Included	Yes	Yes	Yes	Yes	Yes	Yes	No
Lens Mount	Board Mount	Board Mount	M12 Mount	Board Mount	Board Mount	Board Mount	CS Mount
Focal Length	f=3 ~10.5mm	f=3.3 ~10.5mm	f=4mm	f=3 ~10.5mm	f=3.3 ~10.5mm	f=3.3 ~10.5mm	-
F Value	F1.4	F1.4	F1.6	F1.4	F1.4	F1.4	-
View Angle H/V/D	82°~31°/60°~24°/104°~38°	82°~31°/60°~24°/104°~38°	77°/58°/98°	82°~31°/60°~24°/104~38°	82°~31°/60°~24°/104°~38°	82°~31°/60°~24°/104°~38°	-
Min. Illumination	0 lux(IR ON,B/W) 0.1 lux(F1.4,Color)	0 lux(IR ON,B/W) 0.1 lux(F1.4,Color)	0.01 lux(F1.6,B/W) 0.3 lux(F1.6,Color)	0 lux(IR ON,B/W) 0.1 lux(F1.4,Color)	0 lux(IR ON,B/W) 0.1 lux(F1.4,Color)	0 lux(IR ON,B/W) 0.1 lux(F1.4,Color)	0.1 lux(F1.3,B/W) 0.5 lux(F1.3,Color)
Auto Iris Support	Yes	Yes	No	Yes	Yes	Yes	Yes
Infrared LED/Distance	12pcs/10m	12pcs/10m	-	24pcs/15m	24pcs/15m	21pcs/15m	-
Mechanical ICR	Yes	Yes	-	Yes	Yes	Yes	Yes
PIR/White LED	-	-	-	-	-	-	-
Multiple Video Streaming	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Frame Rate (fps)	30 (1M 720p), 30 (2M 1080p), 20 (3M)	30 (1M 720p), 30 (2M 1080p),20 (3M)	30 (1M 720p), 30 (2M 1080p), 20 (3M)	30 (1M 720p), 30 (2M 1080p), 20 (3M)	30 (1M 720p), 30 (2M 1080p), 20 (3M)	30 (1M 720p), 30 (2M 1080p), 20 (3M)	30 (1M 720p), 25 (1.3M)
Audio (G.711/AMR)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Streaming	2 way	2 way	1 way	2 way	2 way	2 way	2 way
Audio In/Out	Yes	Yes	-	Yes	Yes	Yes	Yes
Built-in Microphone/Speaker	-	-	Built-in Mic	-	-	-	Built-in Mic
DI/DO	Yes(1/1)	Yes(1/1)	-	Yes(1/1)	Yes(1/1)	Yes(1/1)	Yes(1/1)
RS-485	-	-	-	Yes	Yes	Yes	Yes
Analog Video Out	Yes	Yes	Yes	Yes	Yes	-	-
Wireless	-	-	-	802.11a/b/g/n*	-	802.11b/g/n*	802.11a/b/g/n*
HW WPS Button	-	-	-	Yes*	-	-	Yes*
Local Storage	SD/SDHC/SDXC Slot Max.64G	SD/SDHC/SDXC Slot Max.64G	Micro SD/SDHC/SDXC Slot Max.64G	Micro SD/SDHC/SDXC Slot Max.64G	Micro SD/SDHC/SDXC Slot Max.64G	Micro SD/SDHC/SDXC Slot Max.64G	SD/SDHC Slot Max.32G
Environment	Outdoor (IP67)	Outdoor (IP67)	Outdoor (IP67)	Outdoor (IP67)	Outdoor (IP67)	Outdoor (IP66)	Indoor
Power Input/ Operating Temperature	DC 12V/ 802.3af PoE (-20°C ~ 50°C) 802.3at PoE (-40°C ~ 50°C)	DC 12V/ 802.3af PoE (-20°C ~ 50°C) 802.3at PoE (-40°C ~ 50°C)	DC 12V/ M12 (-20°C ~ 50°C) 802.3af PoE (-20°C ~ 50°C)	DC 12V/802.3af PoE (-20°C ~ 50°C) 802.3at PoE (-40°C ~ 50°C)	DC 12V/802.3af PoE (-20°C ~ 50°C) 802.3at PoE (-40°C ~ 50°C)	DC 12V/802.3af PoE (-20°C ~ 50°C)	DC 12V/AC 24V (0°C ~ 50°C) 802.3af PoE (0°C ~ 50°C)
Operating Humidity	10% ~ 80%	10% ~ 80%	10% ~ 80%	10% ~ 80%	10% ~ 80%	10% ~ 80%	10% ~ 80%
Others							
	SmartFocus Support 3 axis design, IK10	3 axis design, IK10	EN50155, IK10 Lens Changeable	SmartFocus Support *WOB-300Np only UMTS/HSUPA 850/1900/2100 (for GOB)		*WOB-302Ne only	*WFB-130Np only

1.3-Megapixel Low Lux Camera Series

WDR
HDTV
720P
30fps

	FD-130Np	FD-132Np	VD-130Np	VD-132Np	New Rev OB-130Np	New Rev OB-132Np	WOB-130Np / GOB-130Np
	p	p	p	p	p	p	3G p
Hardware							
Flash/Memory	16MB/ 128MB	16MB/ 128MB	16MB/ 128MB	16MB/ 128MB	32MB/ 256MB	32MB/ 256MB	16MB/ 128MB
Image Sensor	Sony Exmor™ CMOS Sensor & ISP	Sony Exmor™ CMOS Sensor & ISP	Sony Exmor™ CMOS Sensor & ISP	Sony Exmor™ CMOS Sensor & ISP	Sony Exmor™ CMOS Sensor & ISP	Sony Exmor™ CMOS Sensor & ISP	Sony Exmor™ CMOS Sensor & ISP
Sensor Size	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/3" CMOS
S/N Ratio	>50dB	>50dB	>50dB	>50dB	>50dB	>50dB	>50dB
Shutter Speed	1/32000 s ~ 1 s	1/32000 s ~ 1 s	1/32000 s ~ 1 s	1/32000 s ~ 1 s	1/10000 s ~ 1/5 s	1/10000 s ~ 1/5 s	1/32000 s ~ 1 s
Max. Resolution	1280x1024	1280x1024	1280x1024	1280x1024	1280x1024	1280x1024	1280x1024
Lens Included	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lens Mount	Board Mount	Board Mount	Board Mount	Board Mount	Board Mount	Board Mount	Board Mount
Focal Length	f=3~9mm	f=3~9mm	f=3~9mm	f=3~9mm	f=3~10.5mm	f=3.3~10.5mm	f=3.3~12mm
F Value	F 1.2	F 1.2	F 1.2	F 1.2	F 1.4	F 1.4	F 1.6
View Angle H/V/D	90°~30°/70°~22°/115°~38°	90°~30°/70°~22°/115°~38°	90°~30°/70°~22°/115°~38°	90°~30°/70°~22°/115°~38°	52°~20°/42°~17°/68°~26°	52°~20°/42°~17°/68°~26°	76°~33°/58°~27°/102°~42°
Min. Illumination	0 lux(IR ON,B/W) 0.5 lux(F1.2,Color)	0 lux(IR ON,B/W) 0.5 lux(F1.2,Color)	0 lux(IR ON,B/W) 0.5 lux(F1.2,Color)	0 lux(IR ON,B/W) 0.5 lux(F1.2,Color)	0 lux(IR ON,B/W) 0.1 lux(F1.4,Color)	0 lux(IR ON,B/W) 0.1 lux(F1.4,Color)	0 lux(IR ON,B/W) 0.5 lux(F1.6,Color)
Auto Iris Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Infrared LED/Distance	12pcs/10m	12pcs/10m	12pcs/10m	12pcs/10m	24pcs/15m	24pcs/15m	24pcs/15m
Mechanical ICR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PIR/White LED	-	-	-	-	-	-	-
Multiple Video Streaming	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Frame Rate (fps)	30 (1M 720p), 25 (1.3M)	30 (1M 720p), 25 (1.3M)	30 (1M 720p), 25 (1.3M)	30 (1M 720p), 25 (1.3M)	30 (1M 720p), 30 (1.3M)	30 (1M 720p), 30 (1.3M)	30 (1M 720p), 25 (1.3M)
Audio (G.711/AMR)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Streaming	2 way	2 way	2 way	2 way	2 way	2 way	2 way
Audio In/Out	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Built-in Microphone/Speaker	-	-	-	-	-	-	-
DI/DO	Yes(1/1)	Yes(1/1)	Yes(1/1)	Yes(1/1)	Yes(1/1)	Yes(1/1)	Yes(1/1)
RS-485	-	-	-	-	Yes	Yes	Yes
Analog Video Out	-	-	-	-	Yes	Yes	-
Wireless	-	-	-	-	-	-	802.11a/b/g/n*
HW WPS Button	-	-	-	-	-	-	-
Local Storage	SD/SDHC Slot Max.32G	SD/SDHC Slot Max.32G	SD/SDHC Slot Max.32G	SD/SDHC Slot Max.32G	Micro SD/SDHC/SDXC Slot Max.64G	Micro SD/SDHC/SDXC Slot Max.64G	Micro SD/SDHC Slot Max.32G
Environment	Indoor	Indoor	Outdoor (IP67)	Outdoor (IP67)	Outdoor (IP67)	Outdoor (IP67)	Outdoor (IP67)
Power Input/ Operating Temperature	DC 12V/802.3af PoE (0°C ~ 50°C)	DC 12V/802.3af PoE (0°C ~ 50°C)	DC 12V/802.3af PoE (-20°C ~ 60°C) 802.3at PoE (-40°C ~ 60°C)	DC 12V/802.3af PoE (-20°C ~ 60°C) 802.3at PoE (-40°C ~ 60°C)	DC 12V/802.3af PoE (-20°C ~ 50°C) 802.3at PoE (-40°C ~ 50°C)	DC 12V/802.3af PoE (-20°C ~ 50°) 802.3at PoE (-40°C ~ 50°)	802.3af PoE (-20°C ~ 60°C) 802.3at PoE (-40°C ~ 60°C)
Operating Humidity	10% ~ 80%	10% ~ 80%	10% ~ 80%	10% ~ 80%	10% ~ 80%	10% ~ 80%	10% ~ 80%
Others							
	SmartFocus Support 3 axis design	3 axis design	SmartFocus Support 3 axis design, IK10	3 axis design, IK10	SmartFocus Support		SmartFocus Support *WOB-130Np only UMTS/HSUPA 850/1900/2100(for GOB)

VGA Camera	1-Megapixel Camera Series						
					New Rev		
	CB-100Ae (VGA) WCB-100Ae (VGA)	CB-100Ae	WCB-100Ae	CB-102Ae	CB-101Ap V2.1	FB-100Ae	MD-100Ap
	e	e	e	e	3G Option p	e	3G Option p
Hardware							
Flash/Memory	16MB/64MB	16MB/64MB	16MB/64MB	16M/128MB	32M/256MB	16M/128MB	16M/128MB
Image Sensor	CMOS	CMOS	CMOS	CMOS	CMOS	CMOS	CMOS
Sensor Size	1/4" CMOS	1/4" CMOS	1/4" CMOS	1/4" CMOS	1/2.5" CMOS	1/4" CMOS	1/4" CMOS
S/N Ratio	39dB	39dB	39dB	39dB	38.1dB	39dB	39dB
Shutter Speed	1/20000 s ~ 1/8 s	1/20000 s ~ 1/8 s	1/20000 s ~ 1/8 s	1/20000 s ~ 1/8 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/8 s	1/20000 s ~ 1/8 s
Max. Resolution	640x480	1280x800	1280x800	1280x800	1280x800	1280x800	1280x800
Lens Included	Yes	Yes	Yes	Optional	Yes	No	Yes
Lens Mount	Board Lens	Board Lens	Board Lens	CS Mount	Board Lens	CS Mount	Board Mount
Focal Length	f=3.60mm	f=3.60mm	f=3.60mm	f=4mm	f=2.8mm	-	f=2.86mm
F Value	F2.3	F2.3	F2.3	F1.3	F2.2	-	F2.0
View Angle H/V/D	56°/36°/64°	58°/38°/65°	58°/38°/65°	57°/35°/68°	90°/54°/108°	-	82°/50°/104°
Min. Illumination	1 lux(F2.3,B/W) 2 lux(F2.3,Color)	1 lux(F2.3,B/W) 2 lux(F2.3,Color)	1 lux(F2.3,B/W) 2 lux(F2.3,Color)	2 lux(F1.3,B/W) 3 lux(F1.3,Color)	1.5 lux(F2.2,B/W) 3.5 lux(F2.2,Color)	2 lux(F1.3,B/W) 3 Lux(F1.3,Color)	3 lux(F2.0,B/W) 5 lux(F2.0,Color)
Auto Iris Support	No	No	No	No	No	Yes	No
Infrared LED/Distance	-	-	-	-	-	-	-
Mechanical ICR	-	-	-	-	-	Yes	-
PIR/White LED	-	-	-	-	Yes	-	-
Multiple Video Streaming	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Frame Rate (fps)	30 (H.264), 30 (MPEG-4) 30 (MJPEG)	15 (H.264),15 (MPEG-4) 15 (MJPEG)	15 (H.264),15 (MPEG-4) 15 (MJPEG)	15 (H.264), 15 (MPEG-4) 30 (MJPEG)	30 (H.264), 25 (MPEG-4) 30 (MJPEG)	15 (H.264), 15 (MPEG-4) 30 (MJPEG)	30 (H.264), 15 (MPEG-4) 30 (MJPEG)
Audio (G.711/AMR)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Streaming	1 way	1 way	1 way	1 way	2 way	2 way	1 way
Audio In/Out	-	-	-	-	-	Yes	-
Built-in Microphone/Speaker	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic & Speaker	Built-in Mic	Built-in Mic
DI/DO	-	-	-	Yes(1/1)	Yes(1/1)	Yes(1/1)	-
RS-485	-	-	-	-	-	Yes	-
Analog Video Out	-	-	-	-	-	-	-
Wireless	802.11b/g/n*	-	802.11b/g/n	-	-	-	-
HW WPS Button	Yes*	-	Yes	-	-	-	-
Local Storage	-	-	-	-	Micro SD/SDHC/SDXC Slot Max. 64G	-	Micro SD/SDHC Slot Max. 32G
Environment	Indoor	Indoor	Indoor	Indoor	Indoor	indoor	Outdoor (IP67)
Power Input/ Operating Temperature	DC 12V (0°C ~ 50°C)	DC 12V (0°C ~ 50°C)	DC 12V (0°C ~ 50°C)	DC 12V (0°C ~ 50°C) 802.3af PoE (0°C ~ 50°C)	DC 12V (0°C ~ 50°C) 802.3af PoE (0°C ~ 50°C)	DC 12V (0°C ~ 50°C) 802.3af PoE (0°C ~ 50°C)	802.3af PoE (-20°C ~ 50°C)
Operating Humidity	10% ~ 80%	10% ~ 80%	10% ~ 80%	10% ~ 80%	10% ~ 80%	10% ~ 80%	10% ~ 80%
Others							
	Max. mic range:12m *WCB-100Ae (VGA) only	Max. mic range:12m	Max. mic range:12m	Max. mic range:12m	Max. PIR range: 4m Max. mic range 12m	Max. mic range: 10m	Max. mic range: 10m EN50155, IK10

360° Surround View Camera Series

	CB-500Ap-360	MD-500Ap-360	MD-300Ap-360	MD-300Np-360	VD-500Af-360	VD-300Af-360	VD-300Nf-360
	3G Option p	p	p	p			
Hardware							
Flash/Memory	32MB/256MB	32MB/256MB	32MB/256MB	32MB/ 256MB	32MB/256MB	32MB/256MB	32MB/ 256MB
Image Sensor	CMOS	CMOS	CMOS	Sony Exmor™ CMOS Sensor & ISP	CMOS	CMOS	Sony Exmor™ CMOS Sensor & ISP
Sensor Size	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.8" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.8" CMOS
S/N Ratio	38.1dB	38.1dB	38.1dB	>50dB	38.1dB	38.1dB	>50dB
Shutter Speed	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/10000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/10000 s ~1/5 s
Max. Resolution	2592x1944	2592x1944	2048x1536	2048x1536	2592x1944	2048x1536	2048x1536
Lens Included	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lens Mount	Board Mount	Board Mount	Board Mount	Board Mount	Board Mount	Board Mount	Board Mount
Focal Length	f=1mm	f=1mm	f=1mm	f=1mm	f=1mm	f=1mm	f=1mm
F Value	F=2.0	F=2.0	F=2.0	F=2.0	F=2.0	F=2.0	F=2.0
View Angle H	180°	180°	180°	180°	180°	180°	180°
Min. Illumination	1.5lux(F2.0,B/W) 2.5lux(F2.0,Color)	1.5lux(F2.0,B/W) 2.5lux(F2.0,Color)	1.5lux(F2.0,B/W) 2.5lux(F2.0,Color)	0.3lux(F2.0,B/W) 0.8lux(F2.0,Color)	1.5lux(F2.0,B/W) 2.5lux(F2.0,Color)	1.5lux(F2.0,B/W) 2.5lux(F2.0,Color)	0.3lux(F2.0,B/W) 0.8lux(F2.0,Color)
Auto Iris Support	No	No	No	No	No	No	No
Infrared LED/Distance	-	-	-	-	-	-	-
Mechanical ICR	-	-	-	-	-	-	-
PIR/White LED	Yes	-	-	-	-	-	-
Multiple Video Streaming	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Frame Rate (fps)	30 (1M 720p), 30 (2M 1080p), 18 (3M), 15 (4M), 10 (5M)	30 (1M 720p), 30 (2M 1080p), 18 (3M), 15 (4M), 10 (5M)	30 (1M 720p), 30 (2M 1080p), 18 (3M)	30 (1M 720p), 30 (2M 1080p), 20 (3M)	30 (1M 720p), 30 (2M 1080p), 18 (3M), 15 (4M), 10 (5M)	30 (1M 720p), 30 (2M 1080p), 18 (3M)	30 (1M 720p), 30 (2M 1080p), 20 (3M)
Audio (G.711/AMR)	Yes	Yes	Yes	Yes	No	No	No
Audio Streaming	2 way	1 way	1 way	1 way	-	-	-
Audio In/Out	-	-	-	-	-	-	-
Built-in Microphone/Speaker	Built-in Mic & Speaker	Built-in Mic	Built-in Mic	Built-in Mic	-	-	-
DI/DO	Yes(1/1)	-	-	-	-	-	-
RS-485	-	-	-	-	-	-	-
Analog Video Out	-	Yes	Yes	Yes	Yes	Yes	Yes
Wireless	-	-	-	-	-	-	-
HW WPS Button	-	-	-	-	-	-	-
Local Storage	Micro SD/SDHC/SDXC Slot Max.64G	Micro SD/SDHC/SDXC Slot Max.64G	Micro SD/SDHC/SDXC Slot Max.64G	Micro SD/SDHC/SDXC Slot Max.64G	Micro SD/SDHC/SDXC Slot Max.64G	Micro SD/SDHC/SDXC Slot Max.64G	Micro SD/SDHC/SDXC Slot Max.64G
Environment	Indoor	Outdoor (IP67)	Outdoor (IP67)	Outdoor (IP67)	Outdoor (IP66)	Outdoor (IP66)	Outdoor (IP66)
Power Input/ Operating Temperature	DC 12V (0°C ~ 50°C) 802.3af PoE (0°C ~ 50°C)	DC 12V/ M12 (-20°C ~ 50°C) 802.3af PoE (-20°C ~ 50°C)	DC 12V/ M12 (-20°C ~ 50°C) 802.3af PoE (-20°C ~ 50°C)	DC 12V/ M12 (-20°C ~ 50°C) 802.3af PoE (-20°C ~ 50°C)	DC 12V/ 802.3af PoE (-20°C ~ 50°C)	DC 12V/ 802.3af PoE (-20°C ~ 50°C)	DC 12V/ 802.3af PoE (-20°C ~ 50°C)
Operating Humidity	10%~80%	10%~80%	10%~80%	10% ~ 80%	10%~80%	10%~80%	10% ~ 80%
Others							
		EN50155, IK10	EN50155, IK10	EN50155, IK10	IK10	IK10	IK10