

Brickcom

2014

**EN BRICKCOM
BUYING GUIDE**



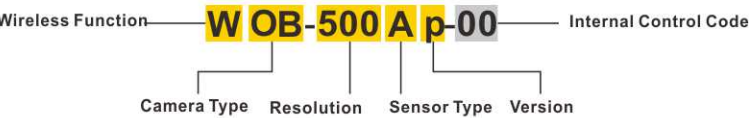
EXPERT IN WIRELESS
IP SURVEILLANCE

About Brickcom

Brickcom Corporation is a leading IP network video equipment manufacturer and a pioneer of wireless IP surveillance solutions in the IP surveillance industry. The company is dedicated to providing the best IP surveillance products and solutions, and is strategically located worldwide to provide prompt quality service. Brickcom has a solid foundation in engineering quality IP network video equipment with a Research and Development department that has been producing the wireless broadband networking equipment for over twenty years.

Brickcom combines the know-how of wireless broadband networking, optical image processing, and video streaming to offer the state-of-the-art IP surveillance products for different applications. Brickcom's BrickOne Solution® serves as the "one-stop shop" for various IP network video surveillance needs. Brickcom's FocusEasy™ makes focusing the camera easy and fast without the help of a monitor.

Camera Naming Rule



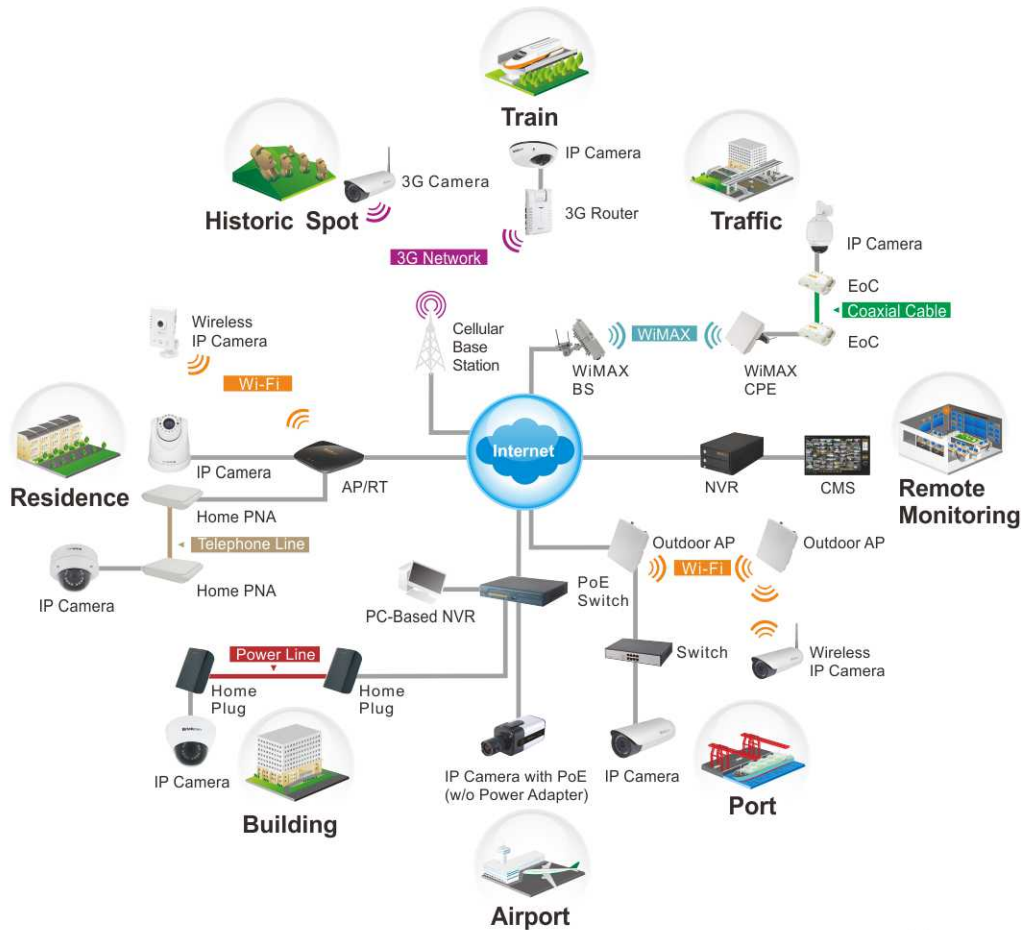
Camera Type		Sensor Type	
FB	Fixed Box	A	CMOS
MB	Mini Box	B	CCD Progressive
FD	Fixed Dome	C	CMOS WDR
CB	Cube	D	CCD Interlaced (NTSC)
OB	Bullet	E	CCD Interlaced (PAL)
VD	Vandal Dome	N	CMOS Sony
MD	Mini Dome		
PZ	PTZ		
OSD	Speed Dome		

Resolution		Wireless Function	
04x	D1		No Wireless
10x	1M	W	Wi-Fi
13x	1.3M	G	3G/3.5G
20x	2M		
30x	3M		
40x	4M		
50x	5M		

Version		Example: OB-500Ap-00	
	Fixed Lens	OB	Bullet
	Economy	500	5M
	Professional	A	CMOS
	Advanced	p	Professional
		00	Internal Control Code

BrickOne Solution®
(Network Cameras + Network Equipment + Video Management System)

Network Cameras	VGA~5M, Wired / Wi-Fi, Video Server, 3G, WDR, Indoor/Outdoor, Vandal Proof, IP67, EN50155, Camera Accessories
Network Equipment	PoE Switch, WiMAX CPE/BS, EoC Bridge, Wi-Fi AP/Router
Video Management System	NVR, CMS



5-Megapixel Camera Series

HDTV

1080P

30fps

FB-500Ap

V5 Apr.



3G Option

p

FD-500Ap

V5 Apr.



p

FD-502Ap

V5 May



p

VD-500Ap

V5 Jan.



p

VD-502Ap

V5 Jan.



p

MD-500Ap



3G Option

p

OB-500Ap
WOB-500Ap
GOB-500Ap

V5 Jan.



Wi-Fi

3G

p

Environment	Indoor	Indoor	Indoor	Outdoor	Outdoor	Outdoor	Outdoor
Image Sensor	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS
S/N Ratio	38.1dB	38.1dB	38.1dB	38.1dB	38.1dB	38.1dB	38.1dB
Shutter Speed	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s
Max. Resolution	2592x1944	2592x1944	2592x1944	2592x1944	2592x1944	2592x1944	2592x1944
Lens Included	-	Yes	Yes	Yes	Yes	Yes	Yes
Lens Mount	CS Mount	Board Mount	Board Mount	Board Mount	Board Mount	M12 Mount	Board Mount
Focal Length / F Value	-	f=3.3~10.5mm / F1.4	f=3.3~10.5mm / F1.4	f=3.3~10.5mm / F1.4	f=3.3~10.5mm / F1.4	f=4mm / F1.6	f=3.3~10.5mm / F1.4
View Angle H/V/D (Normal)	-	90°~33°/65°~25°/115°~41°	90°~33°/65°~25°/115°~41°	90°~33°/65°~25°/115°~41°	90°~33°/65°~25°/115°~41°	90°/67°/112°	90°~33°/65°~25°/115°~41°
View Angle H/V/D (Ultra Wide Mode)	-	-	-	-	-	-	-
Min. Illumination (without Infrared)	0.008 lux (F1.3, B/W) 0.01 lux (F1.3, Color)	0.01 lux (F1.4, B/W) 0.02 lux (F1.4, Color)	0.01 lux (F1.4, B/W) 0.02 lux (F1.4, Color)	0.01 lux (F1.4, B/W) 0.02 lux (F1.4, Color)	0.01 lux (F1.4, B/W) 0.02 lux (F1.4, Color)	0.6 lux (F1.6, B/W) 0.8 lux (F1.6, Color)	0.01 lux (F1.4, B/W) 0.02 lux (F1.4, Color)
Auto Iris Support	Yes	Yes	Yes	Yes	Yes	-	Yes
Infrared LED/Distance	-	12pcs/10m, 20pcs/25m	12pcs/10m, 20pcs/25m	12pcs/10m, 20pcs/25m	12pcs/10m, 20pcs/25m	-	24pcs/15m, 20pcs/25m
Mechanical ICR	Yes	Yes	Yes	Yes	Yes	-	Yes
Multiple Video Streaming	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Frame Rate (FPS)	30 (2M 1080p), 10 (5M)	30 (2M 1080p), 10 (5M)	30 (2M 1080p), 10 (5M)	30 (2M 1080p), 10 (5M)	30 (2M 1080p), 10 (5M)	30 (2M 1080p), 10 (5M)	30 (2M 1080p), 10 (5M)
Audio Compression	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR
Audio Streaming	2-Way	2-Way	2-Way	2-Way	2-Way	1-Way	2-Way
Audio Input	Built-in Mic, External Mic	External Mic	External Mic	External Mic	External Mic	Built-in Mic	External Mic
Audio Output	External Speaker	External Speaker	External Speaker	External Speaker	External Speaker	-	External Speaker
DI/DO	Yes (1/1)	Yes (1/1)	Yes (1/1)	Yes (1/1)	Yes (1/1)	-	Yes (1/1)
RS-485	Yes	-	-	-	-	-	Yes
Analog Video Out	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wireless	-	-	-	-	-	-	802.11a/b/g/n with WPS* UMTS/HSPA 850/1900/2100**
Local Storage	Micro SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB
Operating Temperature	0°C ~ 50°C / 32°F ~ 122°F	0°C ~ 50°C / 32°F ~ 122°F	0°C ~ 50°C / 32°F ~ 122°F	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)	-20°C ~ 50°C / -4°F ~ 122°F	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)
Max. Power Consumption	5W (DC12V / AC24V) 5W (802.3af PoE)	12.5W (DC12V / AC24V) 15W (802.3af PoE) 15W (802.3at PoE Plus)	10.5W (DC12V / AC24V) 12.5W (802.3af PoE) 12.5W (802.3at PoE Plus)	12.5W (DC12V / AC24V) 15W (802.3af PoE) 27.5W (802.3at PoE Plus)	10.5W (DC12V / AC24V) 12.5W (802.3af PoE) 25.5W (802.3at PoE Plus)	5.5W (DC12V) 5.5W (802.3af PoE)	9W (DC12V / AC24V) 9.5W (802.3af PoE) 22.5W (802.3at PoE Plus)
Value-Added Features	FocusEasy™ Temperature Alarm, Real-Time Clock	SmartFocus, IR Focus Shift, Temperature Alarm, Real-Time Clock	FocusEasy™, Temperature Alarm, Real-Time Clock	SmartFocus, IK10 Vandal Proof, IP67, IR Focus Shift, Temperature Alarm, Real-Time Clock	IK10 Vandal Proof, IP67, FocusEasy™ Temperature Alarm, Real-Time Clock	EN50155, IK10 Vandal Proof, 2.8mm/3.6mm/6mm/8mm Lens Options, IP67, Flexible Lens Direction, Real-Time Clock	SmartFocus, IP67, IR Focus Shift, Temperature Alarm, Real-Time Clock
Remarks							

Red Text: New Features for V5

*WOB-500Ap

**GOB-500Ap

5-Megapixel Camera Series

3-Megapixel Camera Series

HDTV

1080P

30fps

OB-502Ap

V5 Jan.



P

CB-500Ap



3G Option P

CB-502Ap / WCB-502Ap



Wi-Fi 3G Option P

MB-500Ap / WMB-500Ap



Wi-Fi 3G Option P

FB-300Ap

V5 Apr.



3G Option P

FD-300Ap

V5 Apr.



P

FD-302Ap

V5 May



P

Environment	Outdoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor
Image Sensor	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS
S/N Ratio	38.1dB	38.1dB	38.1dB	38.1dB	38.1dB	38.1dB	38.1dB
Shutter Speed	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s
Max. Resolution	2592x1944	2592x1944	2592x1944	2592x1944	2048x1536	2048x1536	2048x1536
Lens Included	Yes	Yes	Yes	Yes	-	Yes	Yes
Lens Mount	Board Mount	Board Mount	CS Mount	Board Mount	CS Mount	Board Mount	Board Mount
Focal Length / F Value	f=3.3~10.5mm / F1.4	f=6.34mm / F2.8	f=4.05mm / F1.5	f=4.00mm / F1.6	-	f=3.3~10.5mm / F1.4	f=3.3~10.5mm / F1.4
View Angle H/V/D (Normal)	90°~33°/65°~25°/115°~41°	50°/38°/60°	78°/61°/96°	90°/67°/112°	-	70°~26°/51°~20°/88°~32°	70°~26°/51°~20°/88°~32°
View Angle H/V/D (Ultra Wide Mode)	-	-	-	-	-	107°~33°/77°~22°/114°~41°	107°~33°/77°~22°/114°~41°
Min. Illumination (without Infrared)	0.01 lux (F1.4, B/W) 0.02 lux (F1.4, Color)	0.2 lux (F2.8, B/W) 0.5 lux (F2.8, Color)	0.1 lux (F1.5, B/W) 0.3 lux (F1.5, Color)	0.1 lux (F1.6, B/W) 0.2 lux (F1.6, Color)	0.008 lux (F1.3, B/W) 0.01 lux (F1.3, Color)	0.01 lux (F1.4, B/W) 0.02 lux (F1.4, Color)	0.01 lux (F1.4, B/W) 0.02 lux (F1.4, Color)
Auto Iris Support	Yes	-	-	-	Yes	Yes	Yes
Infrared LED/Distance	24pcs/15m, 20pcs/25m	-	-	30pcs/15m	-	12pcs/10m, 20pcs/25m	12pcs/10m, 20pcs/25m
Mechanical ICR	Yes	-	-	Yes	Yes	Yes	Yes
Multiple Video Streaming	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Frame Rate (FPS)	30 (2M 1080p), 10 (5M)	30 (2M 1080p), 10 (5M)	30 (2M 1080p), 10 (5M)	30 (2M 1080p), 10 (5M)	30 (2M 1080p), 18 (3M)	30 (2M 1080p), 18 (3M)	30 (2M 1080p), 18 (3M)
Audio Compression	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR
Audio Streaming	2-Way	2-Way	2-Way	2-Way	2-Way	2-Way	2-Way
Audio Input	External Mic	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic, External Mic	External Mic	External Mic
Audio Output	External Speaker	Built-in Speaker	Built-in Speaker	Built-in Speaker	External Speaker	External Speaker	External 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	-	-
Analog Video Out	Yes	-	-	-	Yes	Yes	Yes
Wireless	-	-	802.11a/b/g/n with WPS*	802.11a/b/g/n with WPS*	-	-	-
Local Storage	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB
Operating Temperature	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)	0°C ~ 50°C / 32°F ~ 122°F	0°C ~ 50°C / 32°F ~ 122°F	0°C ~ 50°C / 32°F ~ 122°F	0°C ~ 50°C / 32°F ~ 122°F	0°C ~ 50°C / 32°F ~ 122°F	0°C ~ 50°C / 32°F ~ 122°F
Max. Power Consumption	9W (DC12V / AC24V) 10.5W (802.3af PoE) 23W (802.3at PoE Plus)	6W (DC12V) 6W (802.3af PoE)	6.5W (DC12V)* 6W (DC12V)** 6W (802.3af PoE)**	6.8W (DC12V)* 6.4W (DC12V)** 6.4W (802.3af PoE) **	5W (DC12V / AC24V) 5W (802.3af PoE)	12.5W (DC12V / AC24V) 15W (802.3af PoE) 15W (802.3at PoE Plus)	10.5W (DC12V / AC24V) 12.5W (802.3af PoE) 12.5W (802.3at PoE Plus)
Value-Added Features	IP67, FocusEasy™ Temperature Alarm, Real-Time Clock	Privacy Mask Button, PIR & White LED	Privacy Mask Button, PIR & White LED	Privacy Mask Button	FocusEasy™ Temperature Alarm, Real-Time Clock	SmartFocus, IR Focus Shift, Temperature Alarm, Real-Time Clock	FocusEasy™ Temperature Alarm, Real-Time Clock
Remarks							

*WCB-502Ap

**CB-502Ap

*WMB-500Ap

**MB-500Ap

Red Text: New Features for V5

3-Megapixel Camera Series

HDTV

1080P

30fps

VD-300Ap

V5 Jan.



P

VD-302Ap

V5 Jan.



P

MD-300Ap



3G Option P

OB-300Ap
WOB-300Ap
GOB-300Ap

V5 Jan.



Wi-Fi 3G P

OB-302Ap

V5 Jan.



P

CB-300Ap



3G Option P

CB-302Ap / WCB-302Ap



Wi-Fi 3G Option P

Environment	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Indoor	Indoor
Image Sensor	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS
S/N Ratio	38.1dB	38.1dB	38.1dB	38.1dB	38.1dB	38.1dB	38.1dB
Shutter Speed	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s
Max. Resolution	2048x1536	2048x1536	2048x1536	2048x1536	2048x1536	2048x1536	2048x1536
Lens Included	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lens Mount	Board Mount	Board Mount	M12 Mount	Board Mount	Board Mount	Board Mount	CS Mount
Focal Length / F Value	f=3.3~10.5mm / F1.4	f=3.3~10.5mm / F1.4	f=4mm / F1.6	f=3.3~10.5mm / F1.4	f=3.3~10.5mm / F1.4	f=6.34mm / F2.8	f=4.05mm / F1.5
View Angle H/V/D (Normal)	70°~26°/51°~20°/88°~32°	70°~26°/51°~20°/88°~32°	66°/49°/85°	70°~26°/51°~20°/88°~32°	70°~26°/51°~20°/88°~32°	40°/30°/50°	63°/48°/78°
View Angle H/V/D (Ultra Wide Mode)	107°~33°/77°~22°/114°~41°	107°~33°/77°~22°/114°~41°	86°/62°/110°	107°~33°/77°~22°/114°~41°	107°~33°/77°~22°/114°~41°	49°/37°/57°	82°/63°/99°
Min. Illumination (without Infrared)	0.01 lux (F1.4, B/W) 0.02 lux (F1.4, Color)	0.01 lux (F1.4, B/W) 0.02 lux (F1.4, Color)	0.6 lux (F1.6, B/W) 0.8 lux (F1.6, Color)	0.01 lux (F1.4, B/W) 0.02 lux (F1.4, Color)	0.01 lux (F1.4, B/W) 0.02 lux (F1.4, Color)	0.2 lux (F2.8, B/W) 0.5 lux (F2.8, Color)	0.1 lux (F1.5, B/W) 0.3 lux (F1.5, Color)
Auto Iris Support	Yes	Yes	-	Yes	Yes	-	-
Infrared LED/Distance	12pcs/10m, 20pcs/25m	12pcs/10m, 20pcs/25m	-	24pcs/15m, 20pcs/25m	24pcs/15m, 20pcs/25m	-	-
Mechanical ICR	Yes	Yes	-	Yes	Yes	-	-
Multiple Video Streaming	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Frame Rate (FPS)	30 (2M 1080p), 18 (3M)	30 (2M 1080p), 18 (3M)	30 (2M 1080p), 18 (3M)	30 (2M 1080p), 18 (3M)	30 (2M 1080p), 18 (3M)	30 (2M 1080p), 18 (3M)	30 (2M 1080p), 18 (3M)
Audio Compression	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR
Audio Streaming	2-Way	2-Way	1-Way	2-Way	2-Way	2-Way	2-Way
Audio Input	External Mic	External Mic	Built-in Mic	External Mic	External Mic	Built-in Mic	Built-in Mic
Audio Output	External Speaker	External Speaker	-	External Speaker	External Speaker	Built-in Speaker	Built-in Speaker
DI/DO	Yes (1/1)	Yes (1/1)	-	Yes (1/1)	Yes (1/1)	Yes (1/1)	Yes (1/1)
RS-485	-	-	-	Yes	Yes	-	-
Analog Video Out	Yes	Yes	Yes	Yes	Yes	-	-
Wireless	-	-	-	802.11a/b/g/n with WPS* UMTS/HSUPA 850/1900/2100**	-	-	802.11a/b/g/n with WPS*
Local Storage	SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB
Operating Temperature	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)	-20°C ~ 50°C / -4°F ~ 122°F	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)	0°C ~ 50°C / 32°F ~ 122°F	0°C ~ 50°C / 32°F ~ 122°F
Max. Power Consumption	12.5W (DC12V / AC24V) 15W (802.3af PoE) 27.5W (802.3at PoE Plus)	10.5W (DC12V / AC24V) 12.5W (802.3af PoE) 25.5W (802.3at PoE Plus)	5.5W (DC12V) 5.5W (802.3af PoE)	9W (DC12V / AC24V) 9.5W (802.3af PoE) 22.5W (802.3at PoE Plus)	9W (DC12V / AC24V) 10.5W (802.3af PoE) 23W (802.3at PoE Plus)	6W (DC12V) 6W (802.3af PoE)	6.5W (DC12V)* 6W (DC12V)** 6W (802.3af PoE)**
Value-Added Features	SmartFocus, IK10 Vandal Proof, IP67, IR Focus Shift, Temperature Alarm, Real-Time Clock	IK10 Vandal Proof, IP67, FocusEasy™ Temperature Alarm, Real-Time Clock	EN50155, IK10 Vandal Proof, 2.8mm/3.6mm/6mm/8mm Lens Options, IP67, Flexible Lens Direction, Real-Time Clock	SmartFocus, IP67, IR Focus Shift, Temperature Alarm, Real-Time Clock	IP67, FocusEasy™ Temperature Alarm, Real-Time Clock	Privacy Mask Button, PIR & White LED	Privacy Mask Button, PIR & White LED

Remarks

Red Text: New Features for V5

*WOB-300Ap

**GOB-300Ap

*WCB-302Ap

**CB-302Ap

3-Megapixel

2-Megapixel Camera Series

HDTV

1080P

30fps

MB-300Ap / WMB-300Ap



FB-200Ap

V5 Apr



FD-200Ap

V5 Apr



FD-202Ap

V5 May



VD-200Ap

V5 Jan



VD-202Ap

V5 Jan



MD-200Ap



Environment	Indoor	Indoor	Indoor	Indoor	Outdoor	Outdoor	Outdoor
Image Sensor	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS
S/N Ratio	38.1dB	38.1dB	38.1dB	38.1dB	38.1dB	38.1dB	38.1dB
Shutter Speed	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s
Max. Resolution	2048x1536	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080
Lens Included	Yes	-	Yes	Yes	Yes	Yes	Yes
Lens Mount	Board Mount	CS Mount	Board Mount	Board Mount	Board Mount	Board Mount	M12 Mount
Focal Length / F Value	f=4.00mm / F1.6	-	f=3.3~10.5mm / F1.4	f=3.3~10.5mm / F1.4	f=3.3~10.5mm / F1.4	f=3.3~10.5mm / F1.4	f=4mm / F1.6
View Angle H/V/D (Normal)	66°/49°/85°	-	64°~24°/36°~14°/74°~28°	64°~24°/36°~14°/74°~28°	64°~24°/36°~14°/74°~28°	64°~24°/36°~14°/74°~28°	62°/34°/71°
View Angle H/V/D (Ultra Wide Mode)	86°/62°/110°	-	106°~33°/57°~18°/120°~38°	106°~33°/57°~18°/120°~38°	106°~33°/57°~18°/120°~38°	106°~33°/57°~18°/120°~38°	80°/46°/86°
Min. Illumination (without Infrared)	0.1 lux (F1.6, B/W) 0.2 lux (F1.6, Color)	0.008 lux (F1.3, B/W) 0.01 lux (F1.3, Color)	0.01 lux (F1.4, B/W) 0.02 lux (F1.4, Color)	0.01 lux (F1.4, B/W) 0.02 lux (F1.4, Color)	0.01 lux (F1.4, B/W) 0.02 lux (F1.4, Color)	0.01 lux (F1.4, B/W) 0.02 lux (F1.4, Color)	0.6 lux (F1.6, B/W) 0.8 lux (F1.6, Color)
Auto Iris Support	-	Yes	Yes	Yes	Yes	Yes	-
Infrared LED/Distance	30pcs/15m	-	12pcs/10m, 20pcs/25m	12pcs/10m, 20pcs/25m	12pcs/10m, 20pcs/25m	12pcs/10m, 20pcs/25m	-
Mechanical ICR	Yes	Yes	Yes	Yes	Yes	Yes	-
Multiple Video Streaming	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Frame Rate (FPS)	30 (2M 1080p), 18 (3M)	30 (2M 1080p)	30 (2M 1080p)	30 (2M 1080p)	30 (2M 1080p)	30 (2M 1080p)	30 (2M 1080p)
Audio Compression	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR
Audio Streaming	2-Way	2-Way	2-Way	2-Way	2-Way	2-Way	1-Way
Audio Input	Built-in Mic	Built-in Mic, External Mic	External Mic	External Mic	External Mic	External Mic	Built-in Mic
Audio Output	Built-in Speaker	External Speaker	External Speaker	External Speaker	External Speaker	External Speaker	-
DI/DO	Yes (1/1)	Yes (1/1)	Yes (1/1)	Yes (1/1)	Yes (1/1)	Yes (1/1)	-
RS-485	-	Yes	-	-	-	-	-
Analog Video Out	-	Yes	Yes	Yes	Yes	Yes	Yes
Wireless	802.11a/b/g/n with WPS*	-	-	-	-	-	-
Local Storage	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB
Operating Temperature	0°C ~ 50°C / 32°F ~ 122°F	0°C ~ 50°C / 32°F ~ 122°F	0°C ~ 50°C / 32°F ~ 122°F	0°C ~ 50°C / 32°F ~ 122°F	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)	-20°C ~ 50°C / -4°F ~ 122°F
Max. Power Consumption	6.8W (DC12V)* 6.4W (DC12V)** 6.4W (802.3af PoE)**	5W (DC12V / AC24V) 5W (802.3af PoE)	12.5W (DC12V / AC24V) 15W (802.3af PoE) 15W (802.3at PoE Plus)	10.5W (DC12V / AC24V) 12.5W (802.3af PoE) 12.5W (802.3at PoE Plus)	12.5W (DC12V / AC24V) 15W (802.3af PoE) 27.5W (802.3at PoE Plus)	10.5W (DC12V / AC24V) 12.5W (802.3af PoE) 25.5W (802.3at PoE Plus)	5.5W (DC12V) 5.5W (802.3af PoE)
Value-Added Features	Privacy Mask Button	FocusEasy™ Temperature Alarm, Real-Time Clock	SmartFocus, IR Focus Shift, Temperature Alarm, Real-Time Clock	FocusEasy™ Temperature Alarm, Real-Time Clock	SmartFocus, IK10 Vandal Proof, IP67, IR Focus Shift, Temperature Alarm, Real-Time Clock	IK10 Vandal Proof, IP67, FocusEasy™ Temperature Alarm, Real-Time Clock	EN50155, IK10 Vandal Proof, 2.8mm/3.6mm/6mm/8mm Lens Options, IP67, Flexible Lens Direction, Real-Time Clock

Remarks

*WMB-300Ap

**MB-300Ap

Red Text: New Features for V5

2-Megapixel Camera Series

HDTV

1080P

30fps

OB-200Ap
WOB-200Ap
GOB-200Ap

V5
Jan.



OB-202Ap

V5
Jan.



CB-200Ap



CB-202Ap / WCB-202Ap



MB-200Ap / WMB-200Ap



Environment	Outdoor	Outdoor	Indoor	Indoor	Indoor
Image Sensor	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.5" CMOS
S/N Ratio	38.1dB	38.1dB	38.1dB	38.1dB	38.1dB
Shutter Speed	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s	1/20000 s ~ 1/5 s
Max. Resolution	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080
Lens Included	Yes	Yes	Yes	Yes	Yes
Lens Mount	Board Mount	Board Mount	Board Mount	CS Mount	Board Mount
Focal Length / F Value	f=3.3~10.5mm / F1.4	f=3.3~10.5mm / F1.4	f=2.8mm / F2.8	f=4.05mm / F1.5	f=4.00mm / F1.6
View Angle H/V/D (Normal)	64°~24°/36°~14°/74°~28°	64°~24°/36°~14°/74°~28°	90°/48°/106°	60°/34°/68°	62°/34°/71°
View Angle H/V/D (Ultra Wide Mode)	106°~33°/57°~18°/120°~38°	106°~33°/57°~18°/120°~38°	124°/65°/135°	82°/48°/92°	80°/46°/86°
Min. Illumination (without Infrared)	0.01 lux (F1.4, B/W) 0.02 lux (F1.4, Color)	0.01 lux (F1.4, B/W) 0.02 lux (F1.4, Color)	0.2 lux (F2.8, B/W) 0.5 lux (F2.8, Color)	0.1 lux (F1.5, B/W) 0.3 lux (F1.5, Color)	0.1 lux (F1.6, B/W) 0.2 lux (F1.6, Color)
Auto Iris Support	Yes	Yes	-	-	-
Infrared LED/Distance	24pcs/15m, 20pcs/25m	24pcs/15m, 20pcs/25m	-	-	30pcs/15m
Mechanical ICR	Yes	Yes	-	-	Yes
Multiple Video Streaming	Yes	Yes	Yes	Yes	Yes
Frame Rate (FPS)	30 (2M 1080p)	30 (2M 1080p)	30 (2M 1080p)	30 (2M 1080p)	30 (2M 1080p)
Audio Compression	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR
Audio Streaming	2-Way	2-Way	2-Way	2-Way	2-Way
Audio Input	External Mic	External Mic	Built-in Mic	Built-in Mic	Built-in Mic
Audio Output	External Speaker	External Speaker	Built-in Speaker	Built-in Speaker	Built-in Speaker
DI/DO	Yes (1/1)	Yes (1/1)	Yes (1/1)	Yes (1/1)	Yes (1/1)
RS-485	Yes	Yes	-	-	-
Analog Video Out	Yes	Yes	-	-	-
Wireless	802.11a/b/g/n with WPS* UMTS/HSUPA 850/1900/2100**	-	-	802.11a/b/g/n with WPS*	802.11a/b/g/n with WPS*
Local Storage	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB
Operating Temperature	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)	0°C ~ 50°C / 32°F ~ 122°F	0°C ~ 50°C / 32°F ~ 122°F	0°C ~ 50°C / 32°F ~ 122°F
Max. Power Consumption	9W (DC12V / AC24V) 9.5W (802.3af PoE) 22.5W (802.3at PoE Plus)	9W (DC12V / AC24V) 10.5W (802.3af PoE) 23W (802.3at PoE Plus)	6W (DC12V) 6W (802.3af PoE)	6.5W (DC12V)* 6W (DC12V)** 6W (802.3af PoE)**	6.8W (DC12V)* 6.4W (DC12V)** 6.4W (802.3af PoE)**
Value-Added Features	SmartFocus, IP67, IR Focus Shift, Temperature Alarm, Real-Time Clock	IP67, FocusEasy™ Temperature Alarm, Real-Time Clock	Privacy Mask Button, PIR & White LED	Privacy Mask Button, PIR & White LED	Privacy Mask Button
Remarks					

*WOB-200Ap

**GOB-200Ap

*WCB-202Ap

**CB-202Ap

*WMB-200Ap

**MB-200Ap

Red Text: New Features for V5

3-Megapixel Low Lux WDR Enhancement Camera Series

WDR

1080P

30fps

FB-300Np / WFB-300Np

V5 Apr.



FD-300Np

Jan.



FD-302Np

Jan.



VD-300Np

V5 May



VD-302Np

V5 Jan.



MD-300Np



OB-300Np
WOB-300Np
GOB-300Np

V5 Mar.



Environment	Indoor	Indoor	Indoor	Outdoor	Outdoor	Outdoor	Outdoor
Image Sensor	1/2.8" Sony Exmor™ CMOS	1/2.8" Sony Exmor™ CMOS	1/2.8" Sony Exmor™ CMOS	1/2.8" Sony Exmor™ CMOS	1/2.8" Sony Exmor™ CMOS	1/2.8" Sony Exmor™ CMOS	1/2.8" Sony Exmor™ 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	1/10000 s ~ 1/5 s
Max. Resolution	2048x1536	2048x1536	2048x1536	2048x1536	2048x1536	2048x1536	2048x1536
Lens Included	-	Yes	Yes	Yes	Yes	Yes	Yes
Lens Mount	CS Mount	Board Mount	Board Mount	Board Mount	Board Mount	M12 Mount	Board Mount
Focal Length / F Value	-	f=3~10.5mm / F1.4	f=3~10.5mm / F1.4	f=3~10.5mm / F1.4	f=3~10.5mm / F1.4	f=4mm / F1.6	f=3~10.5mm / F1.4
View Angle H/V/D (Normal)	-	98°~32°/72°~24°/128°~40°	98°~32°/72°~24°/128°~40°	98°~32°/72°~24°/128°~40°	98°~32°/72°~24°/128°~40°	77°/58°/98°	98°~32°/72°~24°/128°~40°
View Angle H/V/D (Ultra Wide Mode)	-	-	-	-	-	-	-
Min. Illumination (without Infrared)	0.001 lux (F1.3, B/W) 0.002 lux (F1.3, Color)	0.008 lux (F1.4, B/W) 0.01 lux (F1.4, Color)	0.008 lux (F1.4, B/W) 0.01 lux (F1.4, Color)	0.008 lux (F1.4, B/W) 0.01 lux (F1.4, Color)	0.008 lux (F1.4, B/W) 0.01 lux (F1.4, Color)	0.01 lux (F1.6, B/W) 0.3 lux (F1.6, Color)	0.001 lux (F1.4, B/W) 0.002 lux (F1.4, Color)
Auto Iris Support	Yes	Yes	Yes	Yes	Yes	-	Yes
Infrared LED/Distance	-	20pcs/25m	20pcs/25m	12pcs/10m, 20pcs/25m	12pcs/10m, 20pcs/25m	-	24pcs/15m, 20pcs/25m
Mechanical ICR	Yes	Yes	Yes	Yes	Yes	-	Yes
Multiple Video Streaming	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Frame Rate (FPS)	30 (2M 1080p), 20 (3M)	30 (2M 1080p), 20 (3M)	30 (2M 1080p), 20 (3M)	30 (2M 1080p), 20 (3M)	30 (2M 1080p), 20 (3M)	30 (2M 1080p), 20 (3M)	30 (2M 1080p), 20 (3M)
Audio Compression	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR
Audio Streaming	2-Way	2-Way	2-Way	2-Way	2-Way	1-Way	2-Way
Audio Input	Built-in Mic, External Mic	External Mic	External Mic	External Mic	External Mic	Built-in Mic	External Mic
Audio Output	External Speaker	External Speaker	External Speaker	External Speaker	External Speaker	-	External Speaker
DI/DO	Yes (1/1)	Yes (1/1)	Yes (1/1)	Yes (1/1)	Yes (1/1)	-	Yes (1/1)
RS-485	Yes	-	-	-	-	-	Yes
Analog Video Out	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wireless	802.11a/b/g/n with WPS*	-	-	-	-	-	802.11a/b/g/n with WPS* UMTS/HSUPA 850/1900/2100**
Local Storage	Micro SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB
Operating Temperature	0°C ~ 50°C / 32°F ~ 122°F	0°C ~ 50°C / 32°F ~ 122°F	0°C ~ 50°C / 32°F ~ 122°F	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)	-20°C ~ 50°C / -4°F ~ 122°F	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)
Max. Power Consumption	6W (DC12V / AC24V / 802.3af PoE) 8W (DC12V / AC24V / 802.3af PoE)*	12.5W (DC12V / AC24V) 15W (802.3af PoE)	10.5W (DC12V / AC24V) 12.5W (802.3af PoE)	12.5W (DC12V / AC24V) 15W (802.3af PoE) 27.5W (802.3at PoE Plus)	10.5W (DC12V / AC24V) 12.5W (802.3af PoE) 25W (802.3at PoE Plus)	5.5W (DC12V) 5.5W (802.3af PoE)	9.5W (DC12V / AC24V) 11W (802.3af PoE) 24W (802.3at PoE Plus)
Value-Added Features	FocusEasy™ Temperature Alarm, Real-Time Clock	SmartFocus, IR Focus Shift, Temperature Alarm, Real-Time Clock	FocusEasy™ Temperature Alarm, Real-Time Clock	SmartFocus, IK10 Vandal Proof, IP67, IR Focus Shift, Temperature Alarm, Real-Time Clock	IK10 Vandal Proof, IP67, FocusEasy™ Temperature Alarm, Real-Time Clock	EN50155, IK10 Vandal Proof, 2.8mm/3.6mm/6mm/8mm Lens Options, IP67, Flexible Lens Direction, Real-Time Clock	SmartFocus, IP67, IR Focus Shift, Temperature Alarm, Real-Time Clock
Remarks							

*WFB-300Np

*WOB-300Np

**GOB-300Np

Red Text: New Features for V5

3-Megapixel

2-Megapixel Low Lux WDR Enhancement Camera Series

WDR

1080P

30fps

OB-302Np

V5 Jan.



p

FB-200Np / WFB-200Np

V5 Apr.



WIFI 3G Option

p

FD-200Np

Jan.



p

FD-202Np

Jan.



p

VD-200Np

V5 May



p

VD-202Np

V5 Jan.



p

MD-200Np



3G Option

p

Environment	Outdoor	Indoor	Indoor	Indoor	Outdoor	Outdoor	Outdoor
Image Sensor	1/2.8" Sony Exmor™ CMOS	1/2.8" Sony Exmor™ CMOS	1/2.8" Sony Exmor™ CMOS	1/2.8" Sony Exmor™ CMOS	1/2.8" Sony Exmor™ CMOS	1/2.8" Sony Exmor™ CMOS	1/2.8" Sony Exmor™ 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	1/10000 s ~ 1/5 s
Max. Resolution	2048x1536	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080
Lens Included	Yes	-	Yes	Yes	Yes	Yes	Yes
Lens Mount	Board Mount	CS Mount	Board Mount	Board Mount	Board Mount	Board Mount	M12 Mount
Focal Length / F Value	f=3 ~10.5mm / F1.4	-	f=3~10.5mm / F1.4	f=3~10.5mm / F1.4	f=3 ~10.5mm / F1.4	f=3 ~10.5mm / F1.4	f=4mm / F1.6
View Angle H/V/D (Normal)	98°~32°/72°~24°/128~40°	-	90°~30°/49°~17°/103°~34°	90°~30°/49°~17°/103°~34°	90°~30°/49°~17°/103°~34°	90°~30°/49°~17°/103°~34°	72°/40°/84°
View Angle H/V/D (Ultra Wide Mode)	-	-	-	-	-	-	-
Min. Illumination (without Infrared)	0.001 lux (F1.4, B/W) 0.002 lux (F1.4, Color)	0.001 lux (F1.3, B/W) 0.002 lux (F1.3, Color)	0.008 lux (F1.4, B/W) 0.01 lux (F1.4, Color)	0.008 lux (F1.4, B/W) 0.01 lux (F1.4, Color)	0.008 lux (F1.4, B/W) 0.01 lux (F1.4, Color)	0.008 lux (F1.4, B/W) 0.01 lux (F1.4, Color)	0.01 lux (F1.6, B/W) 0.3 lux (F1.6, Color)
Auto Iris Support	Yes	Yes	Yes	Yes	Yes	Yes	-
Infrared LED/Distance	24pcs/15m, 20pcs/25m	-	20pcs/25m	20pcs/25m	12pcs/10m, 20pcs/25m	12pcs/10m, 20pcs/25m	-
Mechanical ICR	Yes	Yes	Yes	Yes	Yes	Yes	-
Multiple Video Streaming	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Frame Rate (FPS)	30 (2M 1080p), 20 (3M)	30 (2M 1080p)	30 (2M 1080p)	30 (2M 1080p)	30 (2M 1080p)	30 (2M 1080p)	30 (2M 1080p)
Audio Compression	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR
Audio Streaming	2-Way	2-Way	2-Way	2-Way	2-Way	2-Way	1-Way
Audio Input	External Mic	Built-in Mic, External Mic	External Mic	External Mic	External Mic	External Mic	Built-in Mic
Audio Output	External Speaker	External Speaker	External Speaker	External Speaker	External Speaker	External Speaker	-
DI/DO	Yes (1/1)	Yes (1/1)	Yes (1/1)	Yes (1/1)	Yes (1/1)	Yes (1/1)	-
RS-485	Yes	Yes	-	-	-	-	-
Analog Video Out	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wireless	-	802.11a/b/g/n with WPS*	-	-	-	-	-
Local Storage	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB	SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB
Operating Temperature	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)	0°C ~ 50°C / 32°F ~ 122°F	0°C ~ 50°C / 32°F ~ 122°F	0°C ~ 50°C / 32°F ~ 122°F	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)	-20°C ~ 50°C / -4°F ~ 122°F
Max. Power Consumption	9.5W (DC12V / AC24V) 10.5W (802.3af PoE) 23W (802.3at PoE Plus)	6W (DC12V / AC24V / 802.3af PoE) 8W (DC12V / AC24V / 802.3af PoE)*	12.5W (DC12V / AC24V) 15W (802.3af PoE)	10.5W (DC12V / AC24V) 12.5W (802.3af PoE)	12.5W (DC12V / AC24V) 15W (802.3af PoE) 27.5W (802.3at PoE Plus)	10.5W (DC12V / AC24V) 12.5W (802.3af PoE) 25W (802.3at PoE Plus)	5.5W (DC12V) 5.5W (802.3af PoE)
Value-Added Features	IP67, FocusEasy™ Temperature Alarm, Real-Time Clock	FocusEasy™ Temperature Alarm, Real-Time Clock	SmartFocus, IR Focus Shift, Temperature Alarm, Real-Time Clock	FocusEasy™ Temperature Alarm, Real-Time Clock	SmartFocus, IK10 Vandal Proof, IP67, IR Focus Shift, Temperature Alarm, Real-Time Clock	IK10 Vandal Proof, IP67, FocusEasy™ Temperature Alarm, Real-Time Clock	EN50155, IK10 Vandal Proof, 2.8mm/3.6mm/6mm/8mm Lens Options, IP67, Flexible Lens Direction, Real-Time Clock

Remarks

*WFB-200Np

Red Text: New Features for V5

2-Megapixel Low Lux WDR Enhancement Camera Series

360° Surrounding View Camera Series

WDR

1080P

30fps

OB-200Np
WOB-200Np
GOB-200Np

V5
Mar

OB-202Np

V5
Jan

CB-500Ap-360P

MD-500Ap-360P

MD-300Np-360P



Environment	Outdoor	Outdoor	Indoor	Outdoor	Outdoor
Image Sensor	1/2.8" Sony Exmor™ CMOS	1/2.8" Sony Exmor™ CMOS	1/2.5" CMOS	1/2.5" CMOS	1/2.8" Sony Exmor™ CMOS
S/N Ratio	>50dB	>50dB	38.1dB	38.1dB	>50dB
Shutter Speed	1/10000 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	1920x1080	1920x1080	2592x1944	2592x1944	2048x1536
Lens Included	Yes	Yes	Yes	Yes	Yes
Lens Mount	Board Mount	Board Mount	M12 Mount	M12 Mount	M12 Mount
Focal Length / F Value	f=3 ~10.5mm / F1.4	f=3 ~10.5mm / F1.4	f= Long Axis 1.12mm, Short Axis 0.98mm / F2.0		
View Angle H/V/D (Normal)	90°~30°/49°~17°/103°~34°	90°~30°/49°~17°/103°~34°	H: 182°± 2° / V: 182°± 2°	H: 182°± 2° / V: 182°± 2°	H: 182°± 2° / V: 182°± 2°
View Angle H/V/D (Ultra Wide Mode)	-	-	-	-	-
Min. Illumination (without Infrared)	0.001 lux (F1.4, B/W) 0.002 lux (F1.4, Color)	0.001 lux (F1.4, B/W) 0.002 lux (F1.4, Color)	0.1 lux (F2.0, B/W) 0.2 lux (F2.0, Color)	0.1 lux (F2.0, B/W) 0.2 lux (F2.0, Color)	0.02 lux (F2.0, B/W) 0.03 lux (F2.0, Color)
Auto Iris Support	Yes	Yes	-	-	-
Infrared LED/Distance	24pcs/15m, 20pcs/25m	24pcs/15m, 20pcs/25m	-	-	-
Mechanical ICR	Yes	Yes	-	-	-
Multiple Video Streaming	Yes	Yes	Yes	Yes	Yes
Frame Rate (FPS)	30 (2M 1080p)	30 (2M 1080p)	18 (3M), 10 (5M)	18 (3M), 10 (5M)	20 (3M)
Audio Compression	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR	G.711 / AMR
Audio Streaming	2-Way	2-Way	2-Way	1-Way	1-Way
Audio Input	External Mic	External Mic	Built-in Mic	Built-in Mic	Built-in Mic
Audio Output	External Speaker	External Speaker	Built-in Speaker	-	-
DI/DO	Yes (1/1)	Yes (1/1)	Yes (1/1)	-	-
RS-485	Yes	Yes	-	-	-
Analog Video Out	Yes	Yes	-	Yes	Yes
Wireless	802.11a/b/g/n with WPS* UMTS/HSUPA 850/1900/2100**	-	-	-	-
Local Storage	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB
Operating Temperature	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)	-40°C ~ 60°C / -40°F ~ 140°F(802.3at) -20°C ~ 60°C / -4°F ~ 140°F(Others)	0°C ~ 50°C / 32°F ~ 122°F	-20°C ~ 50°C / -4°F ~ 122°F	-20°C ~ 50°C / -4°F ~ 122°F
Max. Power Consumption	9.5W (DC12V / AC24V) 11W (802.3af PoE) 24W (802.3at PoE Plus)	9.5W (DC12V / AC24V) 10.5W (802.3af PoE) 23W (802.3at PoE Plus)	4.2W (DC12V) 4.2W (802.3af PoE)	5.5W (DC12V) 5.5W (802.3af PoE)	5.5W (DC12V) 5.5W (802.3af PoE)
Value-Added Features	SmartFocus, IP67, IR Focus Shift, Temperature Alarm, Real-Time Clock	IP67, FocusEasy™ Temperature Alarm, Real-Time Clock	Privacy Mask Button, PIR & White LED	EN50155, IK10 Vandal Proof, Real-Time Clock, IP67	EN50155, IK10 Vandal Proof, Real-Time Clock, IP67, WDR Enhancement

Remarks

*WOB-200Np

**GOB-200Np

Red Text: New Features for V5

All-in-One Fixed Lens Compact Camera Series

HDTV
Fixed Lens
Affordable

OB-200Af / OB-300Af



OB-500Af



VD-200Af / VD-300Af
VD-500Af



VD-200Nf / VD-300Nf



FD-201Af / FD-301Af
FD-501Af



VD-201Af / VD-301Af
VD-501Af



Environment	Outdoor	Outdoor	Outdoor	Outdoor	Indoor	Outdoor
Image Sensor	1/2.5" CMOS,	1/2.5" CMOS	1/2.5" CMOS	1/2.8" Sony Exmor™ CMOS	1/2.5" CMOS	1/2.5" CMOS
S/N Ratio	38.1dB	38.1dB	38.1dB	>50dB	38.1dB	38.1dB
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
Max. Resolution	1920x1080	2592x1944	1920x1080,	1920x1080	1920x1080,	1920x1080,
	2048x1536*		2048x1536*, 2592x1944**	2048x1536*	2048x1536*, 2592x1944**	2048x1536*, 2592x1944**
Lens Included	Yes	Yes	Yes	Yes	Yes	Yes
Lens Mount	M12 Mount	M12 Mount	M12 Mount	M12 Mount	Board Mount	Board Mount
Focal Length / F Value	f=4mm / F1.6	f=6mm / F1.6	f=4mm / F1.6	f=4mm / F1.6	f=4mm / F1.6	f=4mm / F1.6
View Angle H/V/D (Normal)	* For detailed FOV info, please refer to Brickcom datasheets.					
View Angle H/V/D (Ultra Wide Mode)						
Min. Illumination (without Infrared)	0.1 lux (F1.6, B/W) 0.2 lux (F1.6, Color)	0.1 lux (F1.6, B/W) 0.2 lux (F1.6, Color)	0.6 lux (F1.6, B/W) 0.8 lux (F1.6, Color)	0.01 lux (F1.6, B/W) 0.3 lux (F1.6, Color)	0.1 lux (F1.6, B/W) 0.2 lux (F1.6, Color)	0.1 lux (F1.6, B/W) 0.2 lux (F1.6, Color)
Auto Iris Support	Yes	Yes	-	-	-	-
Infrared LED/Distance	35pcs/20m, 12pcs/15m	35pcs/20m, 12pcs/15m	-	-	12pcs/10m	12pcs/10m
Mechanical ICR	Yes	Yes	-	-	Yes	Yes
Multiple Video Streaming	Yes	Yes	Yes	Yes	Yes	Yes
Frame Rate (FPS)	30 (2M 1080p), 18 (3M)*	30 (2M 1080p), 10 (5M)	30 (2M 1080p), 18 (3M)*, 10 (5M)**	30 (2M 1080p), 20 (3M)*	30 (2M 1080p), 18 (3M)*, 10 (5M)**	30 (2M 1080p), 18 (3M)*, 10 (5M)**
Audio Compression	G.711 / AMR	G.711 / AMR	-	-	G.711 / AMR	G.711 / AMR
Audio Streaming	2-Way, Optional	2-Way, Optional	-	-	2-Way	2-Way
Audio Input	External Mic, Optional	External Mic, Optional	-	-	External Mic	External Mic
Audio Output	External Speaker, Optional	External Speaker, Optional	-	-	External Speaker	External Speaker
DI/DO	Yes (1/1), Optional	Yes (1/1), Optional	-	-	Yes (1/1)	Yes (1/1)
RS-485	Yes, Optional	Yes, Optional	-	-	-	-
Analog Video Out	-	-	Yes	Yes	Yes	Yes
Wireless	-	-	-	-	-	-
Local Storage	Micro SD/SDHC/SDXC Slot Max. 64GB, Optional	Micro SD/SDHC/SDXC Slot Max. 64GB, Optional	Micro SD/SDHC/SDXC Slot Max. 64GB	Micro SD/SDHC/SDXC Slot Max. 64GB	-	-
Operating Temperature	-20°C ~ 50°C / -4°F ~ 122°F	-20°C ~ 50°C / -4°F ~ 122°F	-20°C ~ 50°C / -4°F ~ 122°F	-20°C ~ 50°C / -4°F ~ 122°F	0°C ~ 50°C / 32°F ~ 122°F	-20°C ~ 50°C / -4°F ~ 122°F
Max. Power Consumption	8W (DC12V) 8W (802.3af PoE)	8W (DC12V) 8W (802.3af PoE)	5.5W (DC12V) 5.5W (802.3af PoE)	5.5W (DC12V) 5.5W (802.3af PoE)	6W (DC12V) 6W (802.3af PoE)	6W (DC12V) 6W (802.3af PoE)
Value-Added Features	Cable Management, IP66 6mm/8mm Lens Options Available	Cable Management, IP66 8mm Lens Option Available	2.8mm/3.6mm/6mm/8mm Lens Options, IK10 Vandal Proof, IP66	2.8mm/3.6mm/6mm/8mm Lens Options, IK10 Vandal Proof, IP66, WDR Enhancement		IK10 Vandal Proof, IP66
Remarks						

*OB-300Af

*VD-300Af

**VD-500Af

*VD-300Nf

*FD-301Af

**FD-501Af

*VD-301Af

**VD-501Af

Red Text: New Features for V5

Speed Dome

OSD-200A 20xp



Environment	Outdoor
Image Sensor	1/2.8" Sony Progressive CMOS
S/N Ratio	>50dB
Shutter Speed	1/10000 s ~ 1 s
Max. Resolution	1920 x 1080
Lens Included	Yes
Lens Mount	Board Lens
Focal Length / F Value	4.7~94 mm / F1.6~F2.8
Optical Zoom	20x
View Angle H/V/D	57°~4°/33°~2°/64°~4°
Min. Illumination (without Infrared)	0.01 lux (F1.6, B/W) 0.05 lux (F1.6, Color)
Auto Iris Support	Yes
Infrared LED/Distance	-
Mechanical ICR	Yes
Multiple Video Streaming	Yes
Frame Rate (FPS)	30 (2M 1080p)
Audio Compression	G.711 / G.726 ADPCM / AAC
Audio Streaming	2-Way
Audio Input	External Mic
Audio Output	External Speaker
DI/DO	Yes (4/2)
RS-485	-
Analog Video Out	-
Wireless	-
Local Storage	Micro SD/SDHC/SDXC Slot Max. 64GB
Operating Temperature	-40°C ~ 50°C / -40°F ~ 122°F (AC24V) -7°C ~ 50°C / 19.4°F ~ 122°F (802.3at)
Max. Power Consumption	50W (AC24V) 20W (802.3at PoE Plus)
Pan Range / Tilt Range	Endless 360°/ 200°(-10°~190°)
Pan Speed / Tilt Speed	0.5°~90°/s
Value-Added Features	16 Privacy Masks, 256 Presets, Electronic Image Stabilizer (EIS), WDR Enhancement, IP66
Remarks	

Video Management System

BRC64 Pro



General	
Camera Support	1~64
Compression Format	Motion-JPEG/ MPEG-4/ H.264
E-Map	Yes
Video Access by Web Browser	Yes
PTZ Control	Yes
Preset Control	Yes
Recording	
Continuous Recording	Yes
Manual Recording	Yes
Schedule Recording	Yes
Alarm Recording	Yes
Audio Recording	Yes
Buffer Storage for Alarm Images (before and after events)	Post-Recording: 1~600 sec
Playback	
Playback Mode	Play/Pause/ Stop/ Forward/ Reverse/ Speed Adjust/ Frame by Frame
Video Search	Time/ Date, Event
Multi-Channel Playback	Max.16
Security	
User Authority Management	Yes
Concurrent Login	Yes
Network	
DHCP Client Support	-
DHCP Server	-
UPnP Support	Yes
I/O Port	
USB 2.0	depends on PC H/W SPEC
Network Port	depends on PC H/W SPEC
HDD i/f	depends on PC H/W SPEC
Value-Added Features	
Remote Live View & Playback, Broadcast, TV Wall, Generic RTSP, Corridor Mode	

- Manage up to 64 channels
- Remote live view up to 16 channels
- Remote playback up to 16 channels
- Video Wall
- Recording only to save CPU loading
- Supports joystick, patrol and preset control
- Supports ImmerVision Panomorph
- Supports Edge Recording
- Different frame rate for live view and recording
- Digital zoom on live view and playback
- Continuous, Schedule, Motion, Alarm Recording
- Search by date, time or event
- Smart Motion Detection
- E-Map Monitor and Event Alert
- Smart Camera Search
- Supports system information (HDD, CPU, Network status)



Camera Accessories

Lens	Part Number	Product Name	Supported Models
	M13VG288IR	2.2x Vari-focal Lens with DC Iris (1/3" CS mount, 3MP, 2.2x, f=2.8~8mm, F1.2)	FB-100A / FB-130N / FB-300A / FB-300N / FB-500A Series
	M13VM288IR	2.2x Vari-focal Lens with Manual Iris (1/3" CS mount, 3MP, 2.2x, f=2.8~8mm, F1.2)	CB-102A / CB-502A / WCB-502A / FB-100A / FB-130N / FB-300A / FB-300N / FB-500A series
	TG3Z2914FCS-IR	3x Vari-focal Lens with DC Iris (1/3" CS mount, D1, 3x, f=2.9~8.2mm, F1.4)	FB-100A Series
	M127F02820IR	Fixed Lens with Fixed Iris (1/2.7" CS mount, 1MP, f=2.8mm, F2.0)	CB-102A / FB-100A Series
	2M0660AUCS	10x Vari-focal Lens with DC Iris (1/3" CS mount, 2MP, f=6~60mm, F1.4)	FB-100A / FB-130N / FB-300A / FB-300N / FB-500A Series
	YV2.8x2.8SR4A-SA2L	2.8x Vari-focal Lens with DC Iris (1/3" CS mount, 3MP, 2.8x, f=2.8~8mm, F1.3)	FB-300A / FB-300N / FB-200A / FB-200N Series

Outdoor Enclosure	Part Number	Product Name	Supported Models
	EN-2070	Infrared Illuminator Enclosure	FB Series
	EN-1000H	Outdoor Enclosure	FB Series
	EN-1000HF-IR1	Outdoor Enclosure with 1 Unit Infrared Illuminator	FB Series
	EN-1000HF-IR2	Outdoor Enclosure with 2 Units Infrared Illuminator	FB Series
	IR040	Infrared Illuminators	EN-1000H

Camera Accessories

Camera Bracket	Part Number	Product Name	Supported Models
	CI-803 A	Camera Bracket	FB / CB / MB Series
	CI-803 C	Camera Bracket	FB / CB / MB Series
	CI-807	Camera Bracket	OB Series
	CI-812	Camera Bracket	OB Series except OB-500Af
	GL-222	Camera Bracket	CB Series
	D77H03-WSP	Pendant	OSD Series
	D77H03-WMP	Mini Pendant	OSD Series
	CI-808	Pole Mount	CI-807
	CI-815	Pole Mount	CI-812
	D77H03-WST1 D77H03-WST2	25cm Straight Tube 50cm Straight Tube	OSD Series
	D77H05-WWBM	Wall Box Mount	OSD Series
	D77H05-WCTB	Corner Box Mount	OSD Series
	D77H05-WPTB	Pole Box Mount	OSD Series
	D77H05-WCST	Corner Plate Mount	OSD Series
	D77H05-WPTD	Pole Direct Mount	OSD Series

Camera Accessories

Camera Bracket	Part Number	Product Name	Supported Models
	MK-001	Bracket	EN-1000H
	BR-20	Pole Mount	EN-1000H
	DH801-S	Smoke Cover	OSD Series
	DH801-V	Vandal-proof Cover	OSD Series
	DH801-T	Transparent Cover	OSD Series
	L-WM-01	L- Shape Wall Mount Bracket	FD / VD Series

Waterproof Connector	Part Number	Product Name	Supported Models
	WPC-EU WPC-US	Waterproof Connector-WPC-EU Waterproof Connector-WPC-US	VD Series

Adjusting Tool	Part Number	Product Name	Supported Models
	LT LT-G	Adjusting Lens Tool Adjusting Lens Tool with Glass	MD Series VD-xx0Af / VD-xx0Nf Series

Network Equipment

Antenna	Part Number	Product Name	Supported Models
	GEM04-222008A	Wi-Fi Dual Band Omni Antenna	WOB Series
	GEM07-15072A	3G Antenna	GOB Series
	GEM04-222060	Wi-Fi Dual Band Antenna	WOB Series
	GEM04-222070	Wi-Fi Dual Band Patch Antenna	WOB Series
	BA3230	WIMAX Directional Antenna	WIXB-100 / WIXC-100

Network Equipment

EoC	Part Number	Product Name	Supported Models
	EoC-300M EoC-300S	Ethernet over Coax Bridge (300 Meters)	All Brickcom cameras
	EoC-300M-PoE EoC-300S-PoE	Ethernet over Coax Bridge (300 Meters)	All Brickcom cameras that support 802.3af PoE
	EoC-300M-HighPoE EoC-300S-HighPoE	Ethernet over Coax Bridge (300 Meters)	All Brickcom cameras that support 802.3at PoE Plus
	EoC-1000M EoC-1000S	Ethernet over Coax Bridge (1000 Meters)	All Brickcom cameras that support DC12V
Others	Part Number	Product Name	Supported Models
	12V 4400mAh	12V Li Battery Module	All Brickcom cameras that support DC12V
	D77H07-EPB13 D77H07-EPB23	Power Box	OSD Series
	72-A1030001 72-A2030001	Power Adapter	OSD Series
	PSU-48V	Power Adapter 48V 0.8A	OB / VD / PZ Series
	BNCMD-01	TV Out Cable	MD Series VD-500Af / VD-300Af / VD-300Nf
	USBCB-02	3G Connector Cable	CB-50xA Series / CB-30xA Series MB-500A Series / MB-300A Series

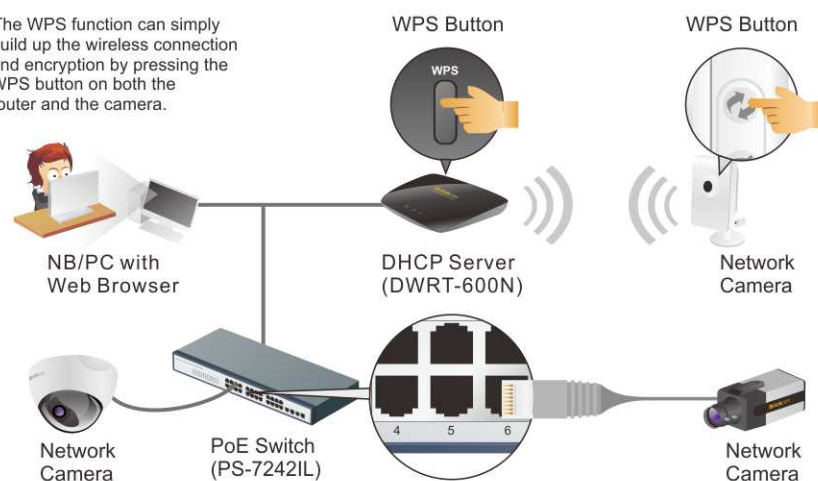
Network Equipment

Networking	Part Number	Product Name	Supported Models
	PS-588I	8-port 10/100M PoE Fast Ethernet Switch	All Brickcom Cameras that support 802.3af PoE
	PS-7242IL-AF	24-port 10/ 100M PoE Web Smart Ethernet Switch	All Brickcom Cameras that support 802.3af PoE
	PS-7242IL-AT	24-port 10/ 100M PoE+ Web Smart Ethernet Switch	All Brickcom Cameras that support 802.3af PoE Plus
	DWRT-600N	Dual Band Wireless N Router	All Brickcom cameras
	POE30U	PoE Injector	All Brickcom Cameras that support 802.3af PoE Plus
	POE16U	PoE Injector	All Brickcom Cameras that support 802.3af PoE
	WIXB-100	Wimax Outdoor BS	All Brickcom cameras
	WIXC-100	Wimax Outdoor CPE	All Brickcom cameras
	BP-1000	UPS power pack for camera	All Brickcom Cameras that support DC12V
	IP Desktop	Joystick	OSD / PZ Series
	SJT-02	Joystick	OSD / PZ Series

Easy Installation

1 Install the cameras and the network devices (Plug and Play)

* The WPS function can simply build up the wireless connection and encryption by pressing the WPS button on both the router and the camera.



2 Install the Brickcom EasyConfig software with the Product CD, and search for your camera without having to configure any IP setting.



3 Follow the EasyConfig software to configure the camera's IP address and the EasyLink™ function.



4 Click <Live View> to view the live video feed of the connected camera.



VMS
Partners



Member of

Brickcom

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