











# Network Cameras comparison chart

	BB-HCM547	BB-HCM527	BB-HCM581	BB-HCM580	BB-HCM515	BB-HCM531	BB-HCM511
Business Use Camera							
Image Sensor	1/3.6 inch MOS Progressive Scan 370,000 pixel	1/3.6 inch MOS Progressive Scan 370,000 pixel	1/4 inch CCD Progressive Scan 320,000 pixel	1/4 inch CCD Progressive Scan 320,000 pixel	1/4 inch CMOS Progressive Scan 1.3 Megapixel	1/4 inch CCD Progressive Scan 320,000 pixel	1/4 inch CCD Progressive Scan 320,000 pixel
Zoom	4.6x (2.3x optical, 2x digital)	4.6x (2.3x optical, 2x digital)	42x (21x optical, 2x digital)	42x (21x optical, 2x digital)	10x digital (by area)	10x digital (by area)	10x digital (by area)
Viewing angle (horizontal / vertical)	73 ° / 55 °	73 ° / 55 °	51 ° / 38 °	51 ° / 38 °	50 ° / 37 °	54 ° / 40 °	54 ° / 40 °
Pan	350 °	350 °	350 °	350 °	120 °	120 °	120 °
Tilt	82 °	82 °	120 ° (on a table), 90 ° (on a ceiling)	120 ° (on a table), 90 ° (on a ceiling)	65 °	65 °	65 °
Lens brightness	F1.9 (wide)- F2.8 (tele)	F1.9 (wide)- F2.8 (tele)	F1.6 (wide)- 3.6 (Tele)	F1.6 (wide)- 3.6 (Tele)	F2.8	F2.8	F2.8
Min. illuminance (Color night view mode)	2 lx (0.2 lx)	2 lx (0.2 lx)	2 lx (0.09 lx)	2 lx (0.09 lx)	at 1280 x 1024: 7 lx (3 lx) others: 10 lx (5 lx)	2 lx (0.2 lx)	2 lx (0.2 lx)
Image compression	Motion JPEG, MPEG-4	Motion JPEG, MPEG-4	Motion JPEG, MPEG-4	Motion JPEG, MPEG-4	Motion JPEG, MPEG-4	Motion JPEG, MPEG-4	Motion JPEG, MPEG-4
Max. Video resolution (pixel)	640 x 480 (VGA)	640 x 480 (VGA)	640 x 480 (VGA)	640 x 480 (VGA)	1280 x 1024 (SXGA)	640 x 480 (VGA)	640 x 480 (VGA)
Frames per second	Up to 30	Up to 30	Up to 30	Up to 30	Up to 30	Up to 30	Up to 30
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cell phone monitoring <sup>*1</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security	User ID/Password, HTTPS	User ID/Password, HTTPS	User ID/Password	User ID/Password	User ID/Password	User ID/Password	User ID/Password
Audio communication	2-way half duplex	2-way half duplex	2-way half duplex	—	2-way half duplex	2-way half duplex	2-way half duplex
Ethernet network	10/100 Base-T(X)	10/100 Base-T(X)	10/100 Base-T(X)	10/100 Base-T(X)	10/100 Base-T(X)	10/100 Base-T(X)	10/100 Base-T(X)
External I/O connector	Input: 2, Output: 1	Input: 2, Output: 1	Input: 2, Output: 1	Input: 2, Output: 1	Input: 2, Output: 1	Input: 2, Output: 1	Input: 2, Output: 1
Analog video output	NTSC/PAL	NTSC/PAL	NTSC/PAL <sup>*2</sup>	NTSC/PAL	NTSC/PAL	NTSC/PAL	NTSC/PAL
Audio output	Yes	Yes	Yes <sup>*2</sup>	—	Yes	Yes	Yes
Built-in microphone	Yes	Yes	—	—	Yes	Yes	Yes
External microphone input	Yes	Yes	Yes <sup>*2</sup>	—	Yes	Yes	Yes
SD Memory Card slot	Full size (SD / SDHC)	Full size (SD / SDHC)	Full size (SD / SDHC)	Full size (SD / SDHC)	Full size (SD / SDHC)	Full size (SD / SDHC)	Full size (SD / SDHC)
Splash-resistance	Yes	—	—	—	—	Yes	—
Operating temperature	-20 °C to +50 °C (-4 °F to +122 °F)	0 °C to +40 °C (+32 °F to +104 °F)	0 °C to +40 °C (+32 °F to +104 °F)	0 °C to +40 °C (+32 °F to +104 °F)	0 °C to +40 °C (+32 °F to +104 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	0 °C to +40 °C (+32 °F to +104 °F)
Operating humidity	20 % to 90 % <sup>*3</sup>	20 % to 80 % <sup>*3</sup>	20 % to 80 % <sup>*3</sup>	20 % to 80 % <sup>*3</sup>	20 % to 80 % <sup>*3</sup>	20 % to 90 % <sup>*3</sup>	20 % to 80 % <sup>*3</sup>
Power over Ethernet (PoE)	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	—	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
AC adaptor (option)	Input: 100 - 240 V AC Output: 12 V DC	Input: 100 - 240 V AC Output: 12 V DC	Input: 100 - 240 V AC Output: 12 V DC	Input: 100 - 240 V AC Output: 12 V DC	Input: 100 - 240 V AC Output: 12 V DC	Input: 100 - 240 V AC Output: 12 V DC	Input: 120 V AC Output: 12 V DC

\*1. Only still images in JPEG format can be displayed on a cell phone. \*2. Connection with external devices requires the included Audio/Video Cable. \*3. No Condensation

# Network Cameras comparison chart

	BL-C160	BL-C140	BL-C131	BL-C111	BL-C20	BL-C1
Home Use Camera						
Image Sensor	1/4 inch CMOS 320,000 pixel	1/4 inch CMOS 320,000 pixel	1/6 inch CMOS 320,000 pixel	1/6 inch CMOS 320,000 pixel	1/4 inch CMOS 320,000 pixel	1/4 inch CMOS 320,000 pixel
Zoom	10x digital (by area)	10x digital (by area)	10x digital (by area)	10x digital (by area)	10x digital (by area)	10x digital (by area)
Viewing angle (horizontal / vertical)	58 ° / 45 °	58 ° / 45 °	49 ° / 37 °	49 ° / 37 °	53 ° / 47 °	53 ° / 47 °
Pan	—	—	100 °	100 °	—	—
Tilt	—	—	50 °	50 °	—	—
Lens brightness	F2.8	F2.8	F2.8	F2.8	F2.8	F2.8
Min. illuminance (Color night view mode)	5 lx (3 lx)	5 lx (3 lx)	10 lx (3 lx)	10 lx (3 lx)	10 lx (4 lx)	10 lx (4 lx)
Image compression	Motion JPEG, MPEG-4	Motion JPEG, MPEG-4	Motion JPEG, MPEG-4	Motion JPEG, MPEG-4	Motion JPEG	Motion JPEG
Max. Video resolution (pixel)	640 x 480 (VGA)	640 x 480 (VGA)	640 x 480 (VGA)	640 x 480 (VGA)	640 x 480 (VGA)	640 x 480 (VGA)
Frames per second	Up to 30	Up to 30	Up to 30	Up to 30	Up to 15	Up to 15
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes
Human Detection (sensor)	Yes	—	Yes	Yes	—	—
Sensor cap (angle limitation)	Yes	—	—	—	—	—
Built-in light (LED)	Yes	—	—	—	—	—
Cell phone monitoring <sup>*1</sup>	Yes	Yes	Yes	Yes	Yes	Yes
Security	User ID/Password,HTTPS	User ID/Password,HTTPS	User ID/Password	User ID/Password	User ID/Password	User ID/Password
Audio communication	—	—	1-way monitoring (Camera to PC)	1-way monitoring (Camera to PC)	—	—
Ethernet network	10/100 Base-T(X)	10/100 Base-T(X)	10/100 Base-T(X)	10/100 Base-T(X)	10/100 Base-T(X)	10/100 Base-T(X)
Wireless network	—	—	IEEE 802.11b/g	—	IEEE 802.11b/g	—
Antenna	—	—	Diversity	—	Diversity	—
Number of channel	—	—	13ch	—	13ch	—
Transmission speed	—	—	Up to 54 Mbps	—	Up to 54 Mbps	—
Wireless security	—	—	SSID, WEP, WPA-PSK (TKIP), WPA-PSK(AES)	—	SSID, WEP	—
Splash-resistance	Yes	Yes	—	—	—	—
Operating temperature	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	0 °C to +40 °C (+32 °F to +104 °F)	0 °C to +40 °C (+32 °F to +104 °F)	0 °C to +40 °C (+32 °F to +104 °F)	0 °C to +40 °C (+32 °F to +104 °F)
Operating humidity	20 % to 90 % <sup>*2</sup>	20 % to 90 % <sup>*2</sup>	20 % to 80 % <sup>*2</sup>	20 % to 80 % <sup>*2</sup>	20 % to 80 % <sup>*2</sup>	20 % to 80 % <sup>*2</sup>
Power over Ethernet (PoE)	Proprietary PoE <sup>*3</sup> (Power Trasfer Unit included )	Proprietary PoE <sup>*3</sup> (Power Trasfer Unit included )	—	—	—	—
AC adaptor (option)	Input: 100 - 240 V AC Output: 9V DC	Input: 100 - 240 V AC Output: 9 V DC	Input: 100 - 240 V AC Output: 9 V DC	Input: 100 - 240 V AC Output: 9 V DC	Input: 100 - 240 V AC Output: 9 V DC	Input: 100 - 240 V AC Output: 9 V DC

\*1. Only still images in JPEG format can be displayed on a cell phone. \*2. No Condensation \*3. Not Compatible with IEEE802.3af.