

# Business Use Cameras



	<b>BB-HCM705A</b>	<b>BB-HCM701A</b>	<b>BB-HCM715A</b>	<b>BB-HCM527A</b>	<b>BB-HCM581A</b>	<b>BB-HCM580A</b>	<b>BB-HCM511A</b>	<b>BB-HCM735A</b>	<b>BB-HCM547A</b>	<b>BB-HCM531A</b>	<b>BB-HCM371A</b>
Image Sensor	1/3 inch MOS Progressive Scan 1.3 Megapixel	1/5 inch CMOS Progressive Scan 320,000 pixel	1/3 inch MOS Progressive Scan 1.3 Megapixel	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 CCD Progressive Scan 320,000 pixel	1/3 inch MOS Progressive Scan 1.3 Megapixel	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
Zoom	6x zoom (2x Ex zoom, 3x digital zoom)	3x digital zoom	6x zoom (2x Ex zoom, 3x digital zoom)	4.6x (2.3x optical, 2x digital)	42x (21x optical, 2x digital)	42x (21x optical, 2x digital)	10x digital (by area)	6x zoom (2x Ex zoom, 3x digital zoom)	4.6x (2.3x optical, 2x digital)	10x digital (by area)	10x digital (by area)
Viewing angle (horizontal / vertical)	69° / 51°	66° / 50°	69° / 51°	73° / 55°	51° / 38°	51° / 38°	54° / 40°	69° / 51°	73° / 55°	54° / 40°	53° / 40°
Pan	20° (on a ceiling), 104° (on a wall)	20° (on a ceiling), 104° (on a wall)	104°	350°	350°	350°	120°	104°	350°	120°	120°
Tilt	57° (on a ceiling), 114° (on a wall)	57° (on a ceiling), 114° (on a wall)	53°	82°	120° (on a table), 90° (on a ceiling)	120° (on a table), 90° (on a ceiling)	65°	53°	82°	65°	65°
Lens brightness	F2.4	F2.0	F2.4	F1.9 (wide) – F2.8 (tele)	F1.6 (wide) – 3.6 (tele)	F1.6 (wide) – 3.6 (tele)	F2.8	F2.4	F1.9 (wide) – F2.8 (tele)	F2.8	F3.5
Min. illuminance (Color night view mode)	0.6 lx (0.07 lx) 2x2 Pixel Binning: 0.3 lx (0.04 lx)	1.5 lx (0.4 lx)	0.6 lx (0.07 lx) 2x2 Pixel Binning: 0.3 lx (0.04 lx)	2 lx (0.2 lx)	2 lx (0.09 lx)	2 lx (0.09 lx)	2 lx (0.2 lx)	0.6 lx (0.07 lx) 2x2 Pixel Binning: 0.3 lx (0.04 lx)	2 lx (0.2 lx)	2 lx (0.2 lx)	3 lx (0.2 lx)
Image compression	Motion JPEG, MPEG-4, H.264	Motion JPEG, MPEG-4, H.264	Motion JPEG, MPEG-4, H.264	Motion JPEG, MPEG-4	Motion JPEG, MPEG-4	Motion JPEG, MPEG-4	Motion JPEG, MPEG-4	Motion JPEG, MPEG-4, H.264	Motion JPEG, MPEG-4	Motion JPEG, MPEG-4	Motion JPEG
Max. Video resolution (pixel)	1280 × 960 (Quad-VGA)	640 × 480 (VGA)	1280 × 960 (Quad-VGA)	640 × 480 (VGA)	640 × 480 (VGA)	640 × 480 (VGA)	640 × 480 (VGA)	1280 × 960 (Quad-VGA)	640 × 480 (VGA)	640 × 480 (VGA)	640 × 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	Up to 30	Up to 30	Up to 30	Up to 30
Shock Detection	Yes	Yes	--	--	--	--	--	--	--	--	--
Sound Detection	Yes	Yes	--	--	--	--	--	--	--	--	--
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cell phone monitoring <sup>1</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security	User ID/Password, SSL	User ID/Password, SSL	User ID/Password, SSL	User ID/Password, SSL	User ID/Password	User ID/Password	User ID/Password	User ID/Password, SSL	User ID/Password, SSL	User ID/Password	User ID/Password
Audio communication	1-way monitoring (Camera to PC)	1-way monitoring (Camera to PC)	2-way half duplex	2-way half duplex	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)	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: 1, Output: 0	Input: 1, Output: 0	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	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	NTSC/PAL	--
Audio output	--	--	Yes	Yes	Yes <sup>2</sup>	--	Yes	Yes	Yes	Yes	Yes
Built-in microphone	Yes	Yes	Yes	Yes	--	--	Yes	Yes	Yes	Yes	Yes
External microphone input	--	--	Yes	Yes	Yes <sup>2</sup>	--	Yes	Yes	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)	Full size (SD / SDHC)	Full size (SD / SDHC)	Full size (SD / SDHC)	Full size (SD / SDHC)
Splash-resistance	--	--	--	--	--	--	--	Yes (IP55)	Yes	Yes	Yes
Operating temperature	+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 (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)	-4°F to +122°F (-20°C to +50°C)	-4°F to +122°F (-20°C to +50°C)	-4°F to +122°F (-20°C to +50°C)	-4°F to +122°F (-20°C to +50°C)
Operating humidity	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 80% <sup>3</sup>	20% to 80% <sup>3</sup>	20% to 80% <sup>3</sup>	20% to 90% <sup>3</sup>	20% to 90% <sup>3</sup>	20% to 90% <sup>3</sup>	20% to 90% <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	--	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	--
AC adaptor (option)	Input 120V AC Output 12V DC	Input 120V AC Output 12V DC	Input 120V AC Output 12V DC	Input: 120V AC Output: 12V DC	Input: 120V AC Output: 12V DC	Input: 120V AC Output: 12V DC	Input: 120V AC Output: 12V DC	Input 120V AC Output 12V DC	Input: 120V AC Output: 12V DC	Input: 120V AC Output: 12V DC	Input: 120V AC Output: 12V DC

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

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# Home Use Cameras



**OUTDOOR**

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	<b>BL-C230A</b>	<b>BL-C210A</b>	<b>BL-C121A</b>	<b>BL-C101A</b>	<b>BL-C1A</b>	<b>BL-C160A</b>	<b>BL-C140A</b>
Image Sensor	1/4 inch CMOS 320,000 pixel	1/4 inch CMOS 320,000 pixel	1/4 inch CMOS 320,000 pixel	1/4 inch CMOS 320,000 pixel	1/4 inch CMOS 320,000 pixel	1/4 inch CMOS 320,000 pixel	1/4 inch CMOS 320,000 pixel
Zoom	3x digital	3x digital	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°	58° / 45°	58° / 45°	53° / 47°	58° / 45°	58° / 45°
Pan	82°	82°	--	--	--	--	--
Tilt	42°	42°	--	--	--	--	--
Lens brightness	F2.8	F2.8	F2.8	F2.8	F2.8	F2.8	F2.8
Min. illuminance	5 lx	5 lx	5 lx	5 lx	10 lx	5 lx	5 lx
(Color night view mode)	(3 lx)	(3 lx)	(3 lx)	(3 lx)	(4 lx)	(3 lx)	(3 lx)
Image compression	Motion JPEG, MPEG-4, H264	Motion JPEG, MPEG-4, H264	Motion JPEG, MPEG-4	Motion JPEG, MPEG-4	Motion JPEG	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)	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 30	Up to 30
Sound Detection	Yes	Yes	--	--	--	--	--
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Human Detection (sensor)	Yes	Yes	--	--	--	Yes	--
Sensor cap (range limitation)	--	--	--	--	--	Yes	--
Built-in light (LED)	--	--	--	--	--	Yes	--
Cell phone monitoring <sup>1</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security	User ID/Password, SSL	User ID/Password, SSL	User ID/Password, SSL	User ID/Password, SSL	User ID/Password	User ID/Password, SSL	User ID/Password, SSL
Audio communication	1-way monitoring (Camera to PC)	1-way monitoring (Camera to PC)	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)	10/100 Base-T(X)
Wireless network	IEEE802.11b/g	--	IEEE802.11b/g	--	--	--	--
Antenna	Single	--	Diversity	--	--	--	--
Number of channel	13ch	--	11ch	--	--	--	--
Transmission speed	Up to 54 Mbps	--	Up to 54 Mbps	--	--	--	--
Wireless security	SSID, WEP, WPA-PSK (TKIP), WPA-PSK(AES)	--	SSID, WEP, WPA-PSK (TKIP), WPA-PSK(AES)	--	--	--	--
Splash-resistance	--	--	--	--	--	Yes	Yes
Operating temperature	+32°F to +104°F (0°C to +40°C)	+32°F to +104°F (0°C to +40°C)	+41°F to +104°F (5°C to +40°C)	+41°F to +104°F (5°C to +40°C)	+32°F to +104°F (0°C to +40°C)	-4°F to +122°F (-20°C to +50°C)	-4°F to +122°F (-20°C to +50°C)
Operating humidity	20% to 80% <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>	20% to 90% <sup>2</sup>	20% to 90% <sup>2</sup>
Power over Ethernet (PoE)	--	Proprietary PoE <sup>3</sup> (Power transfer unit included)	--	Proprietary PoE <sup>3</sup> (Power transfer unit included)	--	Proprietary PoE <sup>3</sup> (Power transfer unit included)	Proprietary PoE <sup>3</sup> (Power transfer unit included)
AC adaptor	Input: 100-240V AC Output: 9V DC	Input: 100-240V AC Output: 9V DC	Input: 120V AC Output: 9V DC	Input: 120V AC Output: 9V DC	Input: 120V AC Output: 9V DC	Input: 120V AC Output: 9V DC	Input: 120V AC Output: 9V DC

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

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