



ALWAYS MORE
THAN YOU EXPECT

**NETWORK CAMERA
COMPARISON CHART**

OCTOBER 2011



NETWORK CAMERAS



WV-SW395
(External PTZ)



WV-SW396
(External PTZ)



WV-SC385
(Internal PTZ)



WV-SC384
(Internal PTZ)



WV-SC386
(Internal PTZ)



WV-NS202A
(Internal PTZ)



WV-NW502S
(External Fixed Dome)



WV-SW355
(External Fixed Dome)

	WV-SW395 (External PTZ)	WV-SW396 (External PTZ)	WV-SC385 (Internal PTZ)	WV-SC384 (Internal PTZ)	WV-SC386 (Internal PTZ)	WV-NS202A (Internal PTZ)	WV-NW502S (External Fixed Dome)	WV-SW355 (External Fixed Dome)
IMAGE SENSOR	1/3 type MOS	1/4 type MOS	1/3 type MOS		1/4 type MOS	1/4 type CCD	1/3 type CCD	1/3 type MOS
MAX. VIDEO RESOLUTION	HD 720P				VGA		HD 1080p	HD 720P
WIDE DYNAMIC RANGE	Yes (Mega Super Dynamic)			Yes (WDR)	Yes (Mega Super Dynamic)	Yes (SDIII)	Yes (Mega Super Dynamic)	
DAY / NIGHT	True D/N			Simple D/N	True D/N	Simple D/N	True D/N	
AUTO BACK FOCUS	N/A (Auto Focus)						Yes	
MIN. ILLUMINATION								
Colour	0.5 lx (F1.6)	0.5 lx (F1.4)	0.5 lx (F1.6)		0.5 lx (F1.4)	0.7 lx (F1.6)	1.0 lx (1.3 MPix / F1.2) 0.06 lx @ 16x (1.3 MPix / F1.2)	0.3 lx (F1.6)
Colour (Sens Up)	0.031 lx @ 16x (F1.6)	0.031 lx @ 16x (F1.4)	0.031 lx @ 16x (F1.6)	0.038 lx @ 16x (F1.6)	0.031 lx @ 16x (F1.4)	0.02 lx @ 32x (F1.6)	0.06 lx @ 16x (1.3 MPix / F1.2)	0.019 lx @ 16x (F1.6)
B/W	0.06 lx (F1.6)	0.06 lx (F1.4)	0.06 lx (F1.6)	0.5 lx (F1.6)	0.06 lx (F1.4)	0.5 lx (F1.6)	0.08 lx (1.3 MPix / F1.2) (1.3 MPix / F1.2)	0.05 lx (F1.6)
B/W (Sens Up)	0.004 lx @ 16x (F1.6)	0.004 lx @ 16x (F1.4)	0.004 lx @ 16x (F1.6)	0.031 lx @ 16x (F1.6)	0.004 lx @ 16x (F1.4)	0.015 lx @ 32x (F1.6)	0.005 lx @ 16x (1.3 MPix / F1.2)	0.003 lx @ 16x (F1.6)
PAN	360 Pan-Flip (0° ~ 350°)	360° endless	360 Pan-Flip (0° ~ 350°)		360° endless	0° ~ 350°	±170° / Azimuth ±100° Manual	+180 / -160°, Azimuth ±100° Manual
TILT	-30° ~ 90°	-15° ~ 185°	-30° ~ 90°		-15° ~ 185°	-30° ~ 90°	±75° Manual	
ZOOM	36x extra ^{*1} / 18x optical / 12x digital	72x extra ^{*1} / 36x optical / 12x digital	36x extra ^{*1} / 18x optical / 12x digital	36x extra ^{*1} / 18x optical / 8x digital	72x extra ^{*1} / 36x optical / 12x digital	22x optical / 10x digital	2.8x optical / 4x digital	7.2x extra ^{*1} / 3.6x optical / 4x digital
ANGULAR FIELD OF VIEW	H: 3.2° (Tele) ~ 55.2° (Wide) V: 2.4° (Tele) ~ 42.1° (Wide)	H: 1.47° (Tele) ~ 60.15° (Wide) V: 1.2° (Tele) ~ 46.3° (Wide)	H: 3.2° (Tele) ~ 55.2° (Wide) V: 2.4° (Tele) ~ 42.1° (Wide)		H: 1.47° (Tele) ~ 60.15° (Wide) V: 1.2° (Tele) ~ 46.3° (Wide)	H: 2.6° (Tele) ~ 51.7° (Wide) V: 2.0° (Tele) ~ 39.9° (Wide)	H: 35.0° (Tele) ~ 100.0° (Wide) V: 26.2° (Tele) ~ 73.4° (Wide)	H: 27.7° (Tele) ~ 100.8° (Wide) V: 20.8° (Tele) ~ 73.8° (Wide)
AMBIENT OPERATING TEMPERATURE	-40°C ~ +50°C (-40°F ~ 122°F) (24V AC) -30°C ~ +50°C (-22°F ~ 122°F) (PoE+)	50°C ~ +55°C (-58°F ~ 131°F) (24V AC) -30°C ~ +55°C (-22°F ~ 131°F) (PoE+)	-10°C ~ +50°C (14°F ~ 122°F)		-10°C ~ +50°C (14°F ~ 122°F)	-10°C ~ +50°C (14°F ~ 122°F)	-30°C ~ +50°C (22°F ~ 122°F)	-10°C ~ +50°C (14°F ~ 122°F) -30°C ~ +50°C (-22°F ~ 122°F) ^{*5}
AMBIENT OPERATING HUMIDITY ^{*2}	90 % or less							
SUPPORTED VIDEO CODEC	H.264 / MPEG-4 / JPEG		H.264 / MPEG-4 / JPEG			MPEG-4 / JPEG	H.264 / MPEG-4 / JPEG	
AUDIO ^{*3}	2-Way							
SUPPORTED AUDIO CODEC	G.726(ADPCM) / G.711				G.726 (ADPCM)		G.726(ADPCM) / G.711	
SD MEMORY CARD (OPTION)	SDHC / SD					SD	SDHC / SD	
EXTERNAL I/O TERMINALS	1x ALARM IN 1 / DAY/ NIGHT IN 1x ALARM IN 2 / ALARM OUT 1x ALARM IN 3 / AUX OUT	1x ALARM IN 1 / DAY/ NIGHT IN 1x ALARM IN 2 / ALARM OUT 1x ALARM IN 3 / AUX OUT	1x ALARM IN 1 / DAY/ NIGHT IN 1x ALARM IN 2 / ALARM OUT 1x ALARM IN 3 / AUX OUT	1x ALARM IN 1 1x ALARM IN 2 / ALARM OUT 1x ALARM IN 3 / AUX OUT	1x ALARM IN 1 / DAY/NIGHT IN 1x ALARM IN 2 / ALARM OUT 1x ALARM IN 3 / AUX OUT	1x ALARM IN 1 1x ALARM IN 2 / ALARM OUT 1x ALARM IN 3 / AUX OUT	1 x ALARM IN 1 / DAY/NIGHT IN 1 x ALARM IN 2 / ALARM OUT 1 x ALARM IN 3 / AUX OUT / EXPOSURE OUT	1x ALARM IN / DAY/NIGHT IN 1x ALARM OUT 1x AUX OUT
ANALOG VIDEO OUTPUT	Monitor Out (for adjustment)							
POWER SOURCE	24 V AC / PoE+		12 V DC / PoE		12 V DC / PoE	12 V DC / PoE		
OTHERS	Multiple H.264 & JPEG streaming, IP66 Rated, Face Detection		Multiple H.264 & JPEG streaming, Face Detection			Multiple H.264 & JPEG streaming IP66 Rated / Face Detection		Multiple H.264 & JPEG streaming, IP66 Rated, Face Detection

*1. extra optical zoom under VGA resolution

*2. without condensation

*3 Audio output requires included Audio/Video Cable.

*4 Heater ON

*5 -30°C ~ +50°C (-22°F ~ 122°F) with Optional Heater (24 V AC / PoE)

NETWORK CAMERAS



WV-SW352
(External Fixed Dome)



WV-SF346
(Internal Fixed Dome)



WV-SF342
(Internal Fixed Dome)



WV-SF336
(Internal Fixed Dome)



WV-SF335
(Internal Fixed Dome)



WV-SF332
(Internal Fixed Dome)



WV-SW155
(External Fixed Dome)



WV-SW152
(External Fixed Dome)

	WV-SW352 (External Fixed Dome)	WV-SF346 (Internal Fixed Dome)	WV-SF342 (Internal Fixed Dome)	WV-SF336 (Internal Fixed Dome)	WV-SF335 (Internal Fixed Dome)	WV-SF332 (Internal Fixed Dome)	WV-SW155 (External Fixed Dome)	WV-SW152 (External Fixed Dome)
IMAGE SENSOR	1/3 type MOS							
MAX. VIDEO RESOLUTION	SVGA	HD 720P	SVGA	HD 720P		SVGA	HD 720P	SVGA
WIDE DYNAMIC RANGE	Yes (Super Dynamic)		Yes (WDR)				Yes (Super Dynamic)	
DAY / NIGHT	True D/N		Simple D/N					
AUTO BACK FOCUS	N/A (Auto Focus)	Yes	Focus Assist	Yes	Focus Assist		N/A	
MIN. ILLUMINATION								
Colour	0.2 lx (F1.6)	0.3 lx (F1.3)	0.2 lx (F1.3)	0.3 lx (F1.3)		0.2 lx (F1.3)	0.8 lx F2.2	0.6 lx F2.2
Colour (Sens Up)	0.013 lx@ 16x (F1.6)	0.019 lx@ 16x (F1.3)	0.013 lx@ 16x (F1.3)	0.019 lx@ 16x (F1.3)		0.013 lx@ 16x (F1.3)	0.05 lx (F2.2)	0.04 lx (F2.2)
B/W	0.04 lx (F1.6)	0.2 lx (F1.3)	0.13 lx (F1.3)	0.2 lx (F1.3)		0.13 lx (F1.3)	0.6 lx F2.2	0.4 lx F2.2
B/W (Sens Up)	0.002 lx@ 16x (F1.6)	0.013 lx@ 16x (F1.3)	0.009 lx@ 16x (F1.3)	0.013 lx@ 16x (F1.3)		0.009 lx@ 16x (F1.3)	0.04 lx (F2.2)	0.03 lx (F2.2)
PAN	+180 / -160°, Azimuth ±100° Manual	+180 / -170°, Azimuth ±100° Manual					+80 / -80 ±104° Manual	
TILT	±75° Manual						N/A	
ZOOM	7.2x extra ^{*1} / 3.6x optical / 4x digital	4x digital		3.6x optical / 4x digital			1 x extra	
ANGULAR FIELD OF VIEW	H: 27.7° (Tele) – 100.8° (Wide) V: 20.8° (Tele) – 73.8° (Wide)	H: 27.7° (Tele) – 100.3° (Wide) V: 20.8° (Tele) – 73.5° (Wide)		H: 28.0° (Tele) – 100.0° (Wide) V: 21.0° (Tele) – 74.0° (Wide)			H: 104.0° V: 85.0°	
AMBIENT OPERATING TEMPERATURE	-10°C ~ +50°C (14°F ~ 122°F) -30°C ~ +50°C (-22°F ~ 122°F) ^{*6}		-10°C ~ +50°C (14°F ~ 122°F)				-30°C ~ +50°C (14°F ~ 122°F)	
AMBIENT OPERATING HUMIDITY ^{*2}	90% or less							
SUPPORTED VIDEO CODEC	H.264 / MPEG-4 / JPEG							
AUDIO ^{*3}	2-Way						N/A	
SUPPORTED AUDIO CODEC	G.726(ADPCM) / G.711		G.726(ADPCM)			N/A		
SD MEMORY CARD (OPTION)	SDHC / SD							
EXTERNAL I/O TERMINALS	1x ALARM IN / DAY/NIGHT IN 1x ALARM OUT 1x AUX OUT		1x ALARM IN 1x ALARM OUT 1x AUX OUT			N/A		
ANALOG VIDEO OUTPUT	Monitor Out (for adjustment)						N/A	
POWER SOURCE	12 V DC / PoE						PoE	
OTHERS	Multiple H.264 & JPEG streaming, IP66 Rated, Face Detection		Multiple H.264 & JPEG streaming, Face Detection			Multiple H.264 & JPEG streaming, Face Detection		

*1. extra optical zoom under VGA resolution

*2. without condensation

*3 Audio output requires included Audio/Video Cable.

*4 With optional Heater Unit WV-SW3H

NETWORK CAMERAS



WV-SF135
(Internal Fixed Dome)



WV-SF132
(Internal Fixed Dome)



WV-NP502
(Internal Box)



WV-SP306
(Internal Box)



WV-SP305
(Internal Box)



WV-SP302
(Internal Box)



WV-SP105
(Internal Cylinder)



WV-SP102
(Internal Cylinder)

IMAGE SENSOR	1/3 type MOS	1/5 type MOS	1/3 type CCD	1/3 type MOS			1/5 type MOS		
MAX. VIDEO RESOLUTION	HD 720P	VGA	HD 1080p	HD 720P	SVGA	HD 720P	VGA		
WIDE DYNAMIC RANGE	Yes (ABS)		Yes (Mega Super Dynamic)	Yes (WDR)			N/A		
DAY / NIGHT	Simple D/N		True D/N		Simple D/N				
AUTO BACK FOCUS	N/A		Yes	Focus Assist			N/A		
MIN. ILLUMINATION	0.8 lx (F2.2)		2.0 lx (F2.9)	1.0 lx (1.3 MPix / F1.4)		0.3 lx (F1.4)	0.2 lx (F1.4)	0.8 lx (F2.2)	2.0 lx (F2.0)
Colour	0.05 lx (F2.2)	0.3 lx (F2.2)	0.06 lx @ 16x (1.3 MPix / F1.4)	0.019 lx @ 16x (F1.4)		0.013 lx @ 16x (F1.4)	0.05 lx @ 16x (F2.2)	0.3 lx @ 8x (F2.0)	
Colour (Sens Up)	0.6 lx (F2.2)	1.3 lx (F2.9)	0.08 lx (1.3 MPix / F1.4)	0.05 lx (F1.4)	0.2 lx (F1.4)	0.13 lx (F1.4)	0.4 lx (F2.2)	1.3 lx (F2.0)	
B/W	0.04 lx (F2.2)	0.16 lx (F2.2)	0.005 lx @ 16x (1.3 MPix / F1.4)	0.003 lx @ 16x (F1.4)	0.013 lx @ 16x (F1.4)	0.009 lx @ 16x (F1.4)	0.03 lx @ 16x (F2.2)	0.16 lx @ 8x (F2.0)	
B/W (Sens Up)	+85 / -85 ±104° Manual		+85 / -85 ±68° Manual		N/A				
PAN	N/A								
TILT	N/A								
ZOOM	1 x extra	N/A	4x digital				2 x extra ^{*1} / 4x digital	4x digital	
ANGULAR FIELD OF VIEW	104.0°	68.0°	Lens: optional				H: 70.3° V: 55.4°	H: 66.9° V: 52.3°	
AMBIENT OPERATING TEMPERATURE	0°C ~ +40°C (32°F ~ 104°F)		-10°C ~ +50°C (14°F ~ 122°F)				0°C ~ 40°C (32°F ~ 104°F)		
AMBIENT OPERATING HUMIDITY ^{*2}	90 % or less								
SUPPORTED VIDEO CODEC	H.264 / MPEG-4 / JPEG					H.264 / JPEG			
AUDIO ^{*3}	N/A		2-way				N/A		
SUPPORTED AUDIO CODEC	N/A		G.726 (ADPCM)				N/A		
SD MEMORY CARD (OPTION)	N/A		SDHC / SD				N/A		
EXTERNAL I/O TERMINALS	N/A		1 x ALARM IN 1 / DAY/NIGHT IN 1 x ALARM IN 2 / ALARM OUT 1 x ALARM IN 3 / AUX OUT / EXPOSURE OUT	1 x ALARM IN / DAY/NIGHT IN 1 x ALARM OUT 1 x AUX OUT	1 x ALARM IN 1 x ALARM OUT 1 x AUX OUT			N/A	
ANALOG VIDEO OUTPUT	N/A		Monitor Out (for adjustment)				N/A		
POWER SOURCE	PoE		12 V DC / PoE						
OTHERS	Multiple H.264 & JPEG streaming, Face Detection					Multiple H.264 & JPEG streaming			

*1. extra optical zoom under VGA resolution







*2. without condensation

*3 Audio output requires included Audio/Video Cable.

*4 Heater ON

*5 -30°C ~ +50°C (-22°F ~ 122°F) with Optional Heater (24 V AC / PoE)

NETWORK CAMERAS

											
	BB-HCM581/580 (Internal PTZ)	BB-HCM547 (External PTZ)	BB-HCM527 (Internal PTZ)	BB-HCM705 (Internal Fixed Dome)	BB-HCM701 (Internal Fixed Dome)	BB-HCM735 (External Pan / Tilt)	BB-HCM715 (Internal Pan / Tilt)	BB-HCM531 / 511 (BB-HCM531-External Pan / Tilt) (BB-HCM511-Internal Pan / Tilt)			
IMAGE SENSOR	1/4 type CCD		1/3.6 type MOS		1/3 type MOS	1/5 type MOS		1/3 type MOS			
MAX. VIDEO RESOLUTION	VGA			HD 720P	VGA		HD 720P	VGA			
WIDE DYNAMIC RANGE	N/A										
DAY / NIGHT	N/A										
AUTO BACK FOCUS	N/A (Auto Focus)		N/A								
MIN. ILLUMINATION											
Colour	2 lx			0.6 lx / 0.3 lx *1		1.5 lx		0.6 lx / 0.3 lx *1			
Colour Night View	0.09 lx		0.2 lx		0.07 lx / 0.04 lx *1		0.4 lx		0.07 lx / 0.04 lx *1		
PAN	350 °			20 ° (on a ceiling), 104 ° (on a wall) Manual			104 °		120 °		
TILT	120 ° (on a table), 90 ° (on a ceiling)		82 °		114 ° (on a ceiling), 114 ° (on a wall) Manual			53 °		65 °	
ZOOM	21x optical / 2x digital		2.3x optical / 2x digital			2x Extra / 3x digital		3x digital		2x Extra / 3x digital	
ANGULAR FIELD OF VIEW	H: 51 ° / V: 38 ° (Wide)		H: 73 ° / V: 55 °			H: 69 ° / V: 51 °		H: 66 ° / V: 50 °		H: 69 ° / V: 51 °	
AMBIENT OPERATING TEMPERATURE	0°C ~ 40°C (32°F ~ 104°F)		-20 °C ~ +50 °C (-4°F ~ +122°F)		0°C ~ 40°C (32°F ~ 104°F)			-20°C ~ +50°C (-4°F ~ +122°F)		0°C ~ 40°C (32°F ~ 104°F)	
AMBIENT OPERATING HUMIDITY	20 % ~ 80 %		20 % ~ 90 %		20 % ~ 80 %			20 % ~ 90 %		20 % ~ 80 %	
SUPPORTED VIDEO CODEC	MPEG-4 / JPEG			H.264 / MPEG-4 / JPEG						MPEG-4 / JPEG	
AUDIO	2-way *2*3		2-way			1-way		2-way			
SUPPORTED AUDIO CODEC	G.726 (ADPCM)			MPEG-2 AAC (AAC-LC) G.726 (ADPCM)							
SD MEMORY CARD (OPTION)	SDHC / SD										
EXTERNAL I/O TERMINALS	2x Input , 1x Output			1x Input			2x Input, 1x Output				
ANALOG VIDEO OUTPUT	Monitor Out *3		Monitor Out			N/A		Monitor Out			
BUILT-IN MICROPHONE	N/A				Yes						
POWER SOURCE	100 ~ 240 V AC *4 / PoE *2				100 ~ 240 V AC / PoE						
IMAGE BUFFER / TRANSFER TRIGGER	Alarm, Timer or Motion Detection		Alarm, Timer or Motion Detection			Alarm, Timer, Motion Detection, Sound or Shock					


*1. 2x 2 Pixel Binning

*2. BB-HCM581 only

*3. Connection with external devices requires the included Audio/Video Cable.

*4. BB-HCM580 include AC adaptor.

NETWORK CAMERAS

	 BL-C230 (Internal Pan / Tilt)	 BL-C210 (Internal Pan / Tilt)	 BL-C160 (External Fixed)	 BL-C140 (External Fixed)	 BL-C131 (Internal Pan / Tilt)	 BL-C111 (Internal Pan / Tilt)	 BL-C121 (Internal Fixed)	 BL-C101 (Internal Fixed)
IMAGE SENSOR	1/4 type MOS				1/6 type MOS		1/4 type MOS	
MAX. VIDEO RESOLUTION					VGA			
WIDE DYNAMIC RANGE					N/A			
DAY / NIGHT					N/A			
AUTO BACK FOCUS					N/A			
MIN. ILLUMINATION								
Colour	5 lx				10 lx		5 lx	
Colour Night View					3 lx			
PAN	82 °		N/A		100 °		N/A	
TILT	42 °		N/A		50 °		N/A	
ZOOM	3x digital				10x digital (by area)			
ANGULAR FIELD OF VIEW	H: 58 ° / V: 45 °				H: 49 ° / V: 37 °		H: 58 ° / V: 45 °	
AMBIENT OPERATING TEMPERATURE	0 °C – 40 °C (32 °F – 104 °F)		-20 °C – +50 °C (-4 °F – 122 °F)				5 °C – 40 °C (41 °F – 104 °F)	
AMBIENT OPERATING HUMIDITY					20 % – 80 %			
SUPPORTED VIDEO CODEC	H.264 / MPEG-4 / JPEG				MPEG-4 / JPEG			
AUDIO	1-way		N/A		1-way			
SUPPORTED AUDIO CODEC	MPEG-2 AAC (AAC-LC) G.726 (ADPCM)		N/A		G.726 (ADPCM)			
SD MEMORY CARD (OPTION)					N/A			
EXTERNAL I/O TERMINALS	2x Input, 1x Output	2x Input			N/A		1x Input, 1x Output	1x Input
ANALOG VIDEO OUTPUT								
BUILT-IN MICROPHONE	Yes		N/A		Yes			
POWER SOURCE					100 – 240 V AC			
IMAGE BUFFER / TRANSFER TRIGGER	Alarm, Sensor, Timer, Motion Detection or Sound				Sensor, Timer or Motion Detection		Timer or Motion Detection	

*1. All BL- models include AC adaptors.



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01304 827609

Panasonic

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Panasonic System Networks Europe
Panasonic House, Willoughby Road
Bracknell, Berkshire RG12 8FP

3013 Lake Drive
Citywest Business Campus
Dublin 24

0844 844 3888
system.solutions@eu.panasonic.com