









# Panasonic

2014 / January

## Network Camera Comparison Chart



Model No.	WV-SW598 (PTZ)	WV-SW396 (PTZ)	WV-SW395 (PTZ)	
	 	  	  	
Image Sensor	Approx. 1/3 type MOS Sensor	1/4 type MOS	1/3 type MOS	
Max. Video Resolution (pixel)	1,920 x 1,080	1,280 x 960	1,280 x 960	
Wide Dynamic Range	Yes (Mega Super Dynamic)	Yes (Mega Super Dynamic)	Yes (Mega Super Dynamic)	
Day / Night	Day & Night (IR)	Day & Night (IR)	Day & Night (IR)	
Auto Back Focus	N/A (Auto Focus)	N/A (Auto Focus)	N/A (Auto Focus)	
VIQS (Variable Image Quality on Specified area)	Yes (2 areas)	N/A	N/A	
Min. Illumination	Color	0.5 lx (F1.6)	0.5 lx (F1.6)	
	Color (Sens Up)	0.03 lx@ 16x (F1.6)	0.031 lx@ 16x (F1.4)	0.031 lx@ 16x (F1.6)
	B/W	0.06 lx (F1.6)	0.06 lx (F1.4)	0.06 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)
Pan	360° endless	360° endless	360° Pan-Flip (0° ~ 350°)	
Tilt	-15° ~ 195° (with Tilt-Flip)	-15° ~ 185° (with Tilt-Flip)	-30° ~ 210° (with Tilt-Flip)	
Zoom	90x extra <sup>*1</sup> / 30x optical / 12x digital	72x extra <sup>*2</sup> / 36x optical / 12x digital	36x extra <sup>*2</sup> / 18x optical / 12x digital	
Angular Field of View	H: 2.6° (Tele) ~ 64.6° (Wide) V: 1.6° (Tele) ~ 38.2° (Wide)	H: 1.7° (Tele) ~ 60.2° (Wide) V: 1.3° (Tele) ~ 46.0° (Wide)	H: 3.2° (Tele) ~ 55.2° (Wide) V: 2.4° (Tele) ~ 42.1° (Wide)	
Ambient Operating Temperature	-50°C ~ +55°C (-58°F ~ 131°F) (24 V AC, PoE <sup>*7</sup> ) -30°C ~ +55°C (-22°F ~ 131°F) (PoE+)	-50°C ~ +55°C (-58°F ~ 131°F) (24 V AC) -30°C ~ +55°C (-22°F ~ 131°F) (PoE+)	-40 °C ~ +50 °C (-40 °F ~ 122 °F) (24 V AC) -30 °C ~ +50 °C (-22 °F ~ 122 °F) (PoE+)	
Ambient Operating Humidity <sup>*5</sup>	90% or less	90 % or less	90 % or less	
Supported Video Codec	H.264 / JPEG	H.264 / MPEG-4 / JPEG	H.264 / MPEG-4 / JPEG	
Audio <sup>*6</sup>	2-way	2-way	2-way	
Supported Audio Codec	G.726 (ADPCM) / G.711 / AAC <sup>*8</sup>	G.726 (ADPCM) / G.711	G.726 (ADPCM) / G.711	
SD Memory Card (Option)	SDXC / SDHC / SD	SDHC / 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(x1 for each)	1x ALARM IN 1 / DAY/NIGHT IN 1x ALARM IN 2 / ALARM OUT 1x ALARM IN 3 / AUX OUT(x1 for each)	1x ALARM IN 1 / DAY/NIGHT IN 1x ALARM IN 2 / ALARM OUT 1x ALARM IN 3 / AUX OUT(x1 for each)	
Analog Video Output	Monitor Out (for adjustment)	Monitor Out (for adjustment)	Monitor Out (for adjustment)	
Built-in Microphone	N/A	N/A	N/A	
Power Source	24 V AC / PoE+	24 V AC / PoE+	24 V AC / PoE+	
Others	Multiple H.264 & JPEG streaming, IP66 Rated, Vandal Resistant, Fog Compensation, Rain wash Coating	Multiple H.264 & JPEG streaming, IP66 Rated, Vandal Resistant, Fog Compensation, Rain Wash Coating (WV-SW396A)	Multiple H.264 & JPEG streaming, IP66 Rated, Vandal Resistant, Fog Compensation, Rain Wash Coating (WV-SW395A)	

<sup>\*1</sup> extra optical zoom at 360p resolution  
<sup>\*2</sup> extra optical zoom at VGA resolution

<sup>\*3</sup> extra zoom at 360p resolution  
<sup>\*4</sup> extra zoom at VGA resolution











<sup>\*5</sup> without condensation  
<sup>\*6</sup> Audio output requires included Audio/Video Cable

<sup>\*7</sup> With PoE Injector (60W)  
<sup>\*8</sup> Only recording on SD memory card

Model No.		WV-SC588 (PTZ)	WV-SC386 (PTZ)	WV-SC385 (PTZ)	WV-SC384 (PTZ)
					
Image Sensor		Approx. 1/3 type MOS Sensor	1/4 type MOS	1/3 type MOS	1/3 type MOS
Max. Video Resolution (pixel)		1,920 x 1,080	1,280 x 960	1,280 x 960	1,280 x 960
Wide Dynamic Range		Yes (Mega Super Dynamic)	Yes (Mega Super Dynamic)	Yes (Mega Super Dynamic)	Yes (WDR)
Day / Night		Day & Night (IR)	Day & Night (IR)	Day & Night (IR)	Day & Night (electrical)
Auto Back Focus		N/A (Auto Focus)	N/A (Auto Focus)	N/A (Auto Focus)	N/A (Auto Focus)
VIQS (Variable Image Quality on Specified area)		Yes (2 areas)	N/A	N/A	N/A
Min. Illumination	Color	0.5 lx (F1.6)	0.5 lx (F1.4)	0.5 lx (F1.6)	0.6 lx (F1.6)
	Color (Sens Up)	0.03 lx@ 16x (F1.6)	0.031 lx@ 16x (F1.4)	0.031 lx@ 16x (F1.6)	0.038 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)
	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)
Pan		360° endless	360° endless	360° Pan-Flip (0° ~ 350°)	360° Pan-Flip (0° ~ 350°)
Tilt		-25° ~ 205°(with Tilt-Flip)	-15° ~ 185° (with Tilt-Flip)	-30° ~ 210° (with Tilt-Flip)	-30° ~ 90° (with Tilt-Flip)
Zoom		90x extra <sup>*1</sup> / 30x optical / 12x digital	72x extra <sup>*2</sup> / 36x optical / 12x digital	36x extra <sup>*2</sup> / 18x optical / 12x digital	36x extra <sup>*2</sup> / 18x optical / 8x digital
Angular Field of View		H: 2.34 ° (Tele) ~ 65.1 ° (Wide) V: 1.36 ° (Tele) ~ 38.4 ° (Wide)	H: 1.7° (Tele) ~ 60.2 ° (Wide) V: 1.3° (Tele) ~ 46.0 ° (Wide)	H: 3.2 ° (Tele) ~ 55.2 ° (Wide) V: 2.4 ° (Tele) ~ 42.1 ° (Wide)	H: 3.2 ° (Tele) ~ 55.2 ° (Wide) V: 2.4 ° (Tele) ~ 42.1 ° (Wide)
Ambient Operating Temperature		-10°C ~ +50°C (14°F ~ 122°F)	-10 °C ~ +50 °C (14 °F ~ 122 °F)	-10 °C ~ +50 °C (14 °F ~ 122 °F)	-10 °C ~ +50 °C (14 °F ~ 122 °F)
Ambient Operating Humidity <sup>*5</sup>		90% or less	90 % or less	90 % or less	90 % or less
Supported Video Codec		H.264 / JPEG	H.264 / MPEG-4 / JPEG	H.264 / MPEG-4 / JPEG	H.264 / MPEG-4 / JPEG
Audio <sup>*6</sup>		2-way	2-way	2-way	2-way
Supported Audio Codec		G.726 (ADPCM) / G.711 / AAC <sup>*8</sup>	G.726 (ADPCM) / G.711	G.726 (ADPCM) / G.711	G.726 (ADPCM) / G.711
SD Memory Card (Option)		SDXC / SDHC / SD	SDHC / SD	SDHC / 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(x1 for each)	1x ALARM IN 1 / DAY/NIGHT IN 1x ALARM IN 2 / ALARM OUT 1x ALARM IN 3 / AUX OUT(x1 for each)	1x ALARM IN 1 / DAY/NIGHT IN 1x ALARM IN 2 / ALARM OUT 1x ALARM IN 3 / AUX OUT(x1 for each)	1x ALARM IN 1 1x ALARM IN 2 / ALARM OUT 1x ALARM IN 3 / AUX OUT(x1 for each)
Analog Video Output		Monitor Out (for adjustment)	Monitor Out (for adjustment)	Monitor Out (for adjustment)	Monitor Out (for adjustment)
Built-in Microphone		N/A	N/A	N/A	N/A
Power Source		12 V DC / PoE	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE
Others		Multiple H.264 & JPEG streaming, Fog Compensation	Multiple H.264 & JPEG streaming, Fog Compensation	Multiple H.264 & JPEG streaming, Fog Compensation	Multiple H.264 & JPEG streaming

Launches in January 2014

Launches in January 2014

Model No.	WV-SFV631L (Fixed Dome)	WV-SFV611L (Fixed Dome)	WV-SW559 (Fixed Dome)	WV-SW558 (Fixed Dome)	WV-SW355 (Fixed Dome)	
	 <b>New</b> 	 <b>New</b> 	 	 	 	
Image Sensor	1/3 type MOS	1/3 type MOS	1/3 type MOS	1/3 type MOS	1/3 type MOS	
Max. Video Resolution (pixel)	2,048x1,536	1,280 x 960	2,048 x 1,536	2,048 x 1,536	1,280 x 960	
Wide Dynamic Range	Yes (Enhanced Super Dynamic)	Yes (Enhanced Super Dynamic)	Yes (Mega Super Dynamic)	Yes (Mega Super Dynamic)	Yes (Mega Super Dynamic)	
Day / Night	Day & Night (IR)	Day & Night (IR)	Day & Night (IR)	Day & Night (electrical)	Day & Night (IR)	
Auto Back Focus	Yes	Yes	Yes	Yes	Yes	
VIQS (Variable Image Quality on Specified area)	Yes (8 areas)	Yes (8 areas)	Yes (2 areas)	Yes (2 areas)	Yes (1 area)	
Min. Illumination	Color	0.04 lx (F1.3)	0.01 lx (F1.3)	0.5 lx (F1.3)	0.5 lx (F1.3)	0.3 lx (F1.6)
	Color (Sens Up)	0.003 lx@ 16x (F1.3)	0.0007 lx@ 16x (F1.3)	0.03 lx@ 16x (F1.3)	0.03 lx@ 16x (F1.3)	0.019 lx@ 16x (F1.6)
	B/W	0.01 lx (F1.3)	0.003 lx (F1.3)	0.06 lx (F1.3)	0.3 lx (F1.3)	0.05 lx (F1.6)
	B/W (Sens Up)	0.0007 lx@ 16x (F1.3)	0.0002 lx@ 16x (F1.3)	0.004 lx@ 16x (F1.3)	0.02 lx@ 16x (F1.3)	0.003 lx@ 16x (F1.6)
Pan	±180°	±180°	+180 / -160°, Azimuth ±100° Manual ±75° Manual	+180 / -160°, Azimuth ±100° Manual ±75° Manual	+180 / -160°, Azimuth ±100° Manual ±75° Manual	
Tilt	0° ~ 85°	0° ~ 85°	±75° Manual	±75° Manual	±75° Manual	
Zoom	10.8x extra*1 / 3.6x optical / 4x digital	10.8x extra*1 / 3.6x optical / 4x digital	10.8x extra*1 / 3.6x optical / 4x digital	10.8x extra*1 / 3.6x optical / 4x digital	7.2x extra*2 / 3.6x optical / 4x digital	
Angular Field of View	[16:9 mode] Horizontal: 28.8° (Tele) – 102.6° (Wide) Vertical: 16.0° (Tele) – 56.0° (Wide) [4:3 mode] Horizontal: 23.7° (Tele) – 84.3° (Wide) Vertical: 17.8° (Tele) – 62.4° (Wide)	[16:9 mode] Horizontal: 26.4° (Tele) – 93.7° (Wide) Vertical: 14.8° (Tele) – 51.6° (Wide) [4:3 mode] Horizontal: 26.4° (Tele) – 93.7° (Wide) Vertical: 20.0° (Tele) – 69.3° (Wide)	H: 24.2° (Tele) ~ 86.6° (Wide) V: 13.50° (Tele) ~ 47.57° (Wide)	H: 24.2° (Tele) ~ 86.6° (Wide) V: 13.50° (Tele) ~ 47.57° (Wide)	H: 27.7° (Tele) ~ 100.8° (Wide) V: 20.8° (Tele) ~ 73.8° (Wide)	
Ambient Operating Temperature	-45 °C ~ +50 °C (-49 °F ~ 122 °F)	-45 °C ~ +50 °C (-49 °F ~ 122 °F)	-40 °C ~ +50 °C (-40 °F ~ 122 °F)	-40 °C ~ +50 °C (-40 °F ~ 122 °F)	-10 °C ~ +50 °C (14 °F ~ 122 °F) -30 °C ~ +50 °C (-22 °F ~ 122 °F)*7	
Ambient Operating Humidity *5	90% or less	90 % or less	90 % or less	90 % or less	90 % or less	
Supported Video Codec	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / MPEG-4 / JPEG	
Audio *6	2-way	2-way	2-way	N/A	2-way	
Supported Audio Codec	G.726(ADPCM) / G.711 / ALC-LC*8	G.726(ADPCM) / G.711 / ALC-LC*8	G.726 (ADPCM) / G.711	N/A	G.726 (ADPCM) / G.711	
SD Memory Card (Option)	SDXC / SDHC / SD	SDXC / SDHC / SD	SDXC / SDHC / SD	N/A	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 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 1x ALARM OUT 1x AUX OUT	1x ALARM IN / DAY/NIGHT IN 1x ALARM OUT 1x AUX OUT	
Analog Video Output	Monitor Out(for adjustment)	Monitor Out (for adjustment)	Monitor Out (for adjustment)	Monitor Out (for adjustment)	Monitor Out (for adjustment)	
Built-in Microphone	N/A	N/A	N/A	N/A	N/A	
Power Source	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE	
Others	Multiple H.264 & JPEG streaming, IP66 Rated Vandal Resistant, Fog Compensation, IR LED equipped	Multiple H.264 & JPEG streaming, IP66 Rated Vandal Resistant, Fog Compensation, IR LED equipped	Multiple H.264 & JPEG streaming, IP66 Rated, Vandal Resistant, Fog Compensation	Multiple H.264 & JPEG streaming, IP66 Rated, Vandal Resistant, Fog Compensation	Multiple H.264 & JPEG streaming, IP66 Rated, Vandal Resistant, Fog Compensation	






\*1 extra optical zoom at 360p resolution  
\*2 extra optical zoom at VGA resolution

\*3 extra zoom at 360p resolution  
\*4 extra zoom at VGA resolution

\*5 without condensation  
\*6 Audio output requires included Audio/Video Cable



\*7 With optional Heater Unit WV-SW3H / WV-SW3HA  
\*8 Only recording on SD memory card



Model No.		WV-SW352 (Fixed Dome)	WV-SW158 (Fixed Dome)	WV-SW155 / WV-SW155M (Fixed Dome)	WV-SW152 / WV-SW152M (Fixed Dome)	WV-SW115 (Wall Mount Fixed Dome)
						 <b>New</b>
Image Sensor		1/3 type MOS	1/3 type MOS	1/3 type MOS	1/3 type MOS	1/3 type CCD
Max. Video Resolution (pixel)		800 x 600	2,048 x 1,536	1,280 x 960	800 x 600	1,280x960
Wide Dynamic Range		Yes (Super Dynamic)	Yes (Mega Super Dynamic)	Yes (Mega Super Dynamic)	Yes (Super Dynamic)	Yes (Mega Super Dynamic)
Day / Night		Day & Night (IR)	Day & Night (electrical)	Day & Night (electrical)	Day & Night (electrical)	Day & Night (electrical)
Auto Back Focus		Yes	N/A	N/A	N/A	N/A
VIQS (Variable Image Quality on Specified area)		Yes (1 area)	Yes (2 areas)	Yes (1 area)	Yes (1 area)	Yes (1 area)
Min. Illumination	Color	0.2 lx (F1.6)	1.2 lx (F2.2)	0.8 lx (F2.2)	0.6 lx (F2.2)	0.8 lx (F2.2)
	Color (Sens Up)	0.013 lx@ 16x (F1.6)	0.075 lx@ 16x (F2.2)	0.05 lx@ 16x (F2.2)	0.04 lx@ 16x (F2.2)	0.05 lx@ 16x (F2.2)
	B/W	0.04 lx (F1.6)	0.9 lx (F2.2)	0.6 lx (F2.2)	0.4 lx (F2.2)	0.6 lx (F2.2)
	B/W (Sens Up)	0.002 lx@ 16x (F1.6)	0.056 lx@ 16x (F2.2)	0.04 lx@ 16x (F2.2)	0.03 lx@ 16x (F2.2)	0.04 lx@ 16x (F2.2)
Pan		+180 / -160 °, Azimuth ±100 ° Manual	<Ceiling> -20 ° ~ 20 ° <Wall> -80 ° ~ 80 ° Manual	<Ceiling> -20 ° ~ 20 ° <Wall> -80 ° ~ 80 ° Manual	<Ceiling> -20 ° ~ 20 ° <Wall> -80 ° ~ 80 ° Manual	<Wall Installation> Horizontal : ±30° Manual
Tilt		±75 ° Manual	<Ceiling> -20 ° ~ 90 ° <Wall> -90 ° ~ 20 ° Manual	<Ceiling> -20 ° ~ 90 ° <Wall> -90 ° ~ 20 ° Manual	<Ceiling> -20 ° ~ 90 ° <Wall> -90 ° ~ 20 ° Manual	<Wall Installation> Vertical : ±30° Manual
Zoom		7.2x extra <sup>*2</sup> / 3.6x optical / 4x digital	3 x extra <sup>*3</sup> / 4x digital	2 x extra <sup>*4</sup> / 4x digital	2 x extra <sup>*4</sup> / 4x digital	2 x extra <sup>*4</sup> / 4x digital
Angular Field of View		H: 27.7 ° (Tele) ~ 100.8 ° (Wide) V: 20.8 ° (Tele) ~ 73.8 ° (Wide)	H: 100° / V: 81° (3 megapixels [4:3]) H: 95° / V: 62° (2/1.3 megapixels [16:9]) H: 84° / V: 68° (1.3 megapixels [4:3])	H: 104° / V: 85°	H: 104° / V: 85°	H: 104° / V: 85°
Ambient Operating Temperature		-10 °C ~ +50 °C (14 °F ~ 122 °F) -30 °C ~ +50 °C (-22 °F ~ 122 °F) <sup>*7</sup>	-30 °C ~ +50 °C (-22 °F ~ 122 °F)	-30 °C ~ +50 °C (-22 °F ~ 122 °F)	-30 °C ~ +50 °C (-22 °F ~ 122 °F)	-30 °C ~ +50 °C (-22 °F ~ 122 °F)
Ambient Operating Humidity <sup>*5</sup>		90 % or less	90 % or less	90 % or less	90 % or less	90% or less
Supported Video Codec		H.264 / MPEG-4 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG
Audio <sup>*6</sup>		2-way	2-way	N/A	N/A	N/A
Supported Audio Codec		G.726 (ADPCM) / G.711	G.726(ADPCM) / G.711 / AAC <sup>*8</sup>	N/A	N/A	N/A
SD Memory Card (Option)		SDHC / SD	SDXC / SDHC / SD	SDHC / SD	SDHC / SD	SDHC / SD
External I/O Terminals		1x ALARM IN / DAY/NIGHT IN 1x ALARM OUT 1x AUX OUT	N/A	N/A	N/A	N/A
Analog Video Output		Monitor Out (for adjustment)	N/A	N/A	N/A	N/A
Built-in Microphone		N/A	Yes	N/A	N/A	N/A
Power Source		12 V DC / PoE	PoE	PoE	PoE	PoE
Others		Multiple H.264 & JPEG streaming, IP66 Rated, Vandal Resistant, Fog Compensation	Multiple H.264 & JPEG streaming, IP66 Rated, Vandal Resistant, Built-in microphone	Multiple H.264 & JPEG streaming, IP66 Rated, Vandal Resistant, M12 Connector (WV-SW155M)	Multiple H.264 & JPEG streaming, IP66 Rated, Vandal Resistant, M12 Connector (WV-SW152M)	Multiple H.264 & JPEG streaming, IP66 Rated, Vandal Resistant

Launches in February 2014

Launches in February 2014

Model No.	WV-SFR631L (Fixed Dome)	WV-SFR611L (Fixed Dome)	WV-SF549 (Fixed Dome)
	 <b>New</b> ONVIFS	 <b>New</b> ONVIFS	 ONVIFS
Image Sensor	1/3 type MOS	1/3 type MOS	1/3 type MOS
Max. Video Resolution (pixel)	2,048x1,536	1,280 x 960	2,048 x 1,536
Wide Dynamic Range	Yes (Enhanced Super Dynamic)	Yes (Enhanced Super Dynamic)	Yes (Mega Super Dynamic)
Day / Night	Day & Night (IR)	Day & Night (IR)	Day & Night (IR)
Auto Back Focus	Yes	Yes	Yes
VIQS (Variable Image Quality on Specified area)	Yes (8 areas)	Yes (8 areas)	Yes (2 areas)
Min. Illumination	Color	0.04 lx (F1.3)	0.01 lx (F1.3)
	Color (Sens Up)	0.003 lx@ 16x (F1.3)	0.0007 lx@ 16x (F1.3)
	B/W	0.01 lx (F1.3)	0.003 lx (F1.3)
	B/W (Sens Up)	0.0007 lx@ 16x (F1.3)	0.0002 lx@ 16x (F1.3)
Pan	±180°	±180°	+180 / -170 °, Azimuth ±100 ° Manual
Tilt	0° ~ 85°	0° ~ 85°	±75 ° Manual
Zoom	10.8x extra*1 / 3.6x optical / 4x digital	10.8x extra*1 / 3.6x optical / 4x digital	10.8x extra*1 / 3.6x optical / 4x digital
Angular Field of View	[16:9 mode] Horizontal: 28.8° (Tele) – 102.9° (Wide) Vertical: 16.0° (Tele) – 56.2° (Wide) [4:3 mode] Horizontal: 23.8° (Tele) – 84.6° (Wide) Vertical: 17.8° (Tele) – 62.6° (Wide)	[16:9 mode] Horizontal: 26.4° (Tele) – 94.0° (Wide) Vertical: 14.7° (Tele) – 51.8° (Wide) [4:3 mode] Horizontal: 26.4° (Tele) – 94.0° (Wide) Vertical: 19.8° (Tele) – 69.5° (Wide)	H: 24.2 ° (Tele) ~ 80.6 ° (Wide) V: 13.50 ° (Tele) ~ 47.57 ° (Wide)
Ambient Operating Temperature	-45 °C ~ +50 °C (-49 °F ~ 122 °F)	-45 °C ~ +50 °C (-49 °F ~ 122 °F)	-10 °C ~ +50 °C (14 °F ~ 122 °F)
Ambient Operating Humidity *5	90% or less	90 % or less	90 % or less
Supported Video Codec	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG
Audio *6	2-way	2-way	2-way
Supported Audio Codec	G.726(ADPCM) / G.711 / ALC-LC*7	G.726(ADPCM) / G.711 / ALC-LC*7	G.726 (ADPCM) / G.711
SD Memory Card (Option)	SDXC / SDHC / SD	SDXC / SDHC / SD	SDXC / 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 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
Analog Video Output	Monitor Out (for adjustment)	Monitor Out (for adjustment)	Monitor Out (for adjustment)
Built-in Microphone	N/A	N/A	N/A
Power Source	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE
Others	Multiple H.264 & JPEG streaming, Vandal Resistant, Fog Compensation, IR LED equipped	Multiple H.264 & JPEG streaming, Vandal Resistant, Fog Compensation, IR LED equipped	Multiple H.264 & JPEG streaming, Vandal Resistant, Fog Compensation

\*1 extra optical zoom at 360p resolution  
\*2 extra optical zoom at VGA resolution

\*3 extra zoom at 360p resolution  
\*4 extra zoom at VGA resolution


\*5 without condensation  
\*6 Audio output requires included Audio/Video Cable

\*7 Only recording on SD memory card

Model No.		WV-SF548 (Fixed Dome)	WV-SF346 (Fixed Dome)	WV-SF342 (Fixed Dome)
				
Image Sensor		1/3 type MOS	1/3 type MOS	1/3 type MOS
Max. Video Resolution (pixel)		2,048 x 1,536	1,280 x 960	800 x 600
Wide Dynamic Range		Yes (Mega Super Dynamic)	Yes (WDR)	Yes (WDR)
Day / Night		Day & Night (electrical)	Day & Night (electrical)	Day & Night (electrical)
Auto Back Focus		Yes	Yes	Focus Assist
VIQS (Variable Image Quality on Specified area)		Yes (2 areas)	Yes (1 area)	Yes (1 area)
Min. Illumination	Color	0.5 lx (F1.3)	0.3 lx (F1.3)	0.2 lx (F1.3)
	Color (Sens Up)	0.03 lx@ 16x (F1.3)	0.019 lx@ 16x (F1.3)	0.013 lx@ 16x (F1.3)
	B/W	0.3 lx (F1.3)	0.2 lx (F1.3)	0.13 lx (F1.3)
	B/W (Sens Up)	0.02 lx@ 16x (F1.3)	0.013 lx@ 16x (F1.3)	0.009 lx@ 16x (F1.3)
Pan		+180 / -170 °, Azimuth ±100 ° Manual	+180 / -170 °, Azimuth ±100 ° Manual	+180 / -170 °, Azimuth ±100 ° Manual
Tilt		±75 ° Manual	±75 ° Manual	±75 ° Manual
Zoom		10.8x extra <sup>*1</sup> / 3.6x optical / 4x digital	7.2x extra <sup>*2</sup> / 3.6x optical / 4x digital	7.2x extra <sup>*2</sup> / 3.6x optical / 4x digital
Angular Field of View		H: 24.2 ° (Tele) ~ 80.6 ° (Wide) V: 13.50 ° (Tele) ~ 47.57 ° (Wide)	H: 27.7° (Tele) ~ 100.3° (Wide) V: 20.8° (Tele) ~ 73.5° (Wide)	H: 27.7° (Tele) ~ 100.3° (Wide) V: 20.8° (Tele) ~ 73.5° (Wide)
Ambient Operating Temperature		-10 °C ~ +50 °C (14 °F ~ 122 °F)	-10 °C ~ +50 °C (14 °F ~ 122 °F)	-10 °C ~ +50 °C (14 °F ~ 122 °F)
Ambient Operating Humidity <sup>*5</sup>		90 % or less	90 % or less	90 % or less
Supported Video Codec		H.264 / JPEG	H.264 / MPEG-4 / JPEG	H.264 / MPEG-4 / JPEG
Audio <sup>*6</sup>		N/A	2-way	2-way
Supported Audio Codec		N/A	G.726 (ADPCM) / G.711	G.726 (ADPCM) / G.711
SD Memory Card (Option)		N/A	SDHC / SD	SDHC / SD
External I/O Terminals		1x ALARM IN 1x ALARM OUT 1x AUX OUT	1x ALARM IN 1x ALARM OUT 1x AUX OUT	1x ALARM IN 1x ALARM OUT 1x AUX OUT
Analog Video Output		Monitor Out (for adjustment)	Monitor Out (for adjustment)	Monitor Out (for adjustment)
Built-in Microphone		N/A	N/A	N/A
Power Source		12 V DC / PoE	12 V DC / PoE	12 V DC / PoE
Others		Multiple H.264 & JPEG streaming, Vandal Resistant, Fog Compensation	Multiple H.264 & JPEG streaming, Vandal Resistant, Fog Compensation	Multiple H.264 & JPEG streaming, Vandal Resistant, Fog Compensation

Launches in February 2014

Launches in February 2014

Model No.	WV-SFN631L (Fixed Dome)	WV-SFN611L (Fixed Dome)	WV-SF539 (Fixed Dome)	WV-SF538 (Fixed Dome)	WV-SF336 (Fixed Dome)	
	 <b>New</b> 	 <b>New</b> 	 	 	 	
Image Sensor	1/3 type MOS	1/3 type MOS	1/3 type MOS	1/3 type MOS	1/3 type MOS	
Max. Video Resolution (pixel)	2,048x1,536	1,280 x 960	2,048 x 1,536	2,048 x 1,536	1,280 x 960	
Wide Dynamic Range	Yes (Enhanced Super Dynamic)	Yes (Enhanced Super Dynamic)	Yes (Mega Super Dynamic)	Yes (Mega Super Dynamic)	Yes (WDR)	
Day / Night	Day & Night (IR)	Day & Night (IR)	Day & Night (IR)	Day & Night (electrical)	Day & Night (electrical)	
Auto Back Focus	Yes	Yes	Yes	Yes	Yes	
VIQS (Variable Image Quality on Specified area)	Yes (8 areas)	Yes (8 areas)	Yes (2 areas)	Yes (2 areas)	Yes (1 area)	
Min. Illumination	Color	0.04 lx (F1.3)	0.01 lx (F1.3)	0.5 lx (F1.3)	0.5 lx (F1.3)	0.3 lx (F1.3)
	Color (Sens Up)	0.003 lx@ 16x (F1.3)	0.0007 lx@ 16x (F1.3)	0.03 lx@ 16x (F1.3)	0.03 lx@ 16x (F1.3)	0.019 lx@ 16x (F1.3)
	B/W	0.01 lx (F1.3)	0.003 lx (F1.3)	0.06 lx (F1.3)	0.3 lx (F1.3)	0.2 lx (F1.3)
	B/W (Sens Up)	0.0007 lx@ 16x (F1.3)	0.0002 lx@ 16x (F1.3)	0.004 lx@ 16x (F1.3)	0.02 lx@ 16x (F1.3)	0.013 lx@ 16x (F1.3)
Pan	±180°	±180°	+180 / -170 °, Azimuth ±100 ° Manual	+180 / -170 °, Azimuth ±100 ° Manual	+180 / -170 °, Azimuth ±100 ° Manual	
Tilt	0° ~ 85°	0° ~ 85°	±75 ° Manual	±75 ° Manual	±75 ° Manual	
Zoom	10.8x extra*1 / 3.6x optical / 4x digital	10.8x extra*1 / 3.6x optical / 4x digital	10.8x extra*1 / 3.6x optical / 4x digital	10.8x extra*1 / 3.6x optical / 4x digital	7.2x extra*2 / 3.6x optical / 4x digital	
Angular Field of View	[16:9 mode] Horizontal: 29.3° (Tele) – 104.1° (Wide) Vertical: 16.2° (Tele) – 56.8° (Wide) [4:3 mode] Horizontal: 24.0° (Tele) – 85.5° (Wide) Vertical: 18.0° (Tele) – 63.3° (Wide)	[16:9 mode] Horizontal: 26.6° (Tele) – 95.1° (Wide) Vertical: 14.9° (Tele) – 52.3° (Wide) [4:3 mode] Horizontal: 26.7° (Tele) – 95.1° (Wide) Vertical: 20.0° (Tele) – 70.2° (Wide)	H: 24.2 ° (Tele) ~ 80.6 ° (Wide) V: 13.50 ° (Tele) ~ 47.57 ° (Wide)	H: 24.2 ° (Tele) ~ 80.6 ° (Wide) V: 13.50 ° (Tele) ~ 47.57 ° (Wide)	H: 27.7 ° (Tele) ~ 100.3 ° (Wide) V: 20.8 ° (Tele) ~ 73.5 ° (Wide)	
Ambient Operating Temperature	-10 °C ~ +50 °C (14 °F ~ 122 °F)	-10 °C ~ +50 °C (14 °F ~ 122 °F)	-10 °C ~ +50 °C (14 °F ~ 122 °F)	-10 °C ~ +50 °C (14 °F ~ 122 °F)	-10 °C ~ +50 °C (14 °F ~ 122 °F)	
Ambient Operating Humidity *5	90% or less	90% or less	90% or less	90% or less	90% or less	
Supported Video Codec	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / MPEG-4 / JPEG	
Audio *6	2-way	2-way	2-way	N/A	2-way	
Supported Audio Codec	G.726 (ADPCM) / G.711 / ALC-LC*7	G.726 (ADPCM) / G.711 / ALC-LC*7	G.726 (ADPCM) / G.711	N/A	G.726 (ADPCM) / G.711	
SD Memory Card (Option)	SDXC / SDHC / SD	SDXC / SDHC / SD	SDXC / SDHC / SD	N/A	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 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 1x ALARM IN 2 / ALARM OUT 1x AUX OUT	1x ALARM IN 1x ALARM OUT 1x AUX OUT	
Analog Video Output	Monitor Out (for adjustment)	Monitor Out (for adjustment)	Monitor Out (for adjustment)	Monitor Out (for adjustment)	Monitor Out (for adjustment)	
Built-in Microphone	N/A	N/A	N/A	N/A	N/A	
Power Source	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE	
Others	Multiple H.264 & JPEG streaming, Fog Compensation, IR LED equipped	Multiple H.264 & JPEG streaming, Fog Compensation, IR LED equipped	Multiple H.264 & JPEG streaming, Fog Compensation	Multiple H.264 & JPEG streaming, Fog Compensation	Multiple H.264 & JPEG streaming, Fog Compensation	






\*1 extra optical zoom at 360p resolution  
\*2 extra optical zoom at VGA resolution

\*3 extra zoom at 360p resolution  
\*4 extra zoom at VGA resolution

\*5 without condensation  
\*6 Audio output requires included Audio/Video Cable

\*7 Only recording on SD memory card



Model No.	WV-SF335 (Fixed Dome)	WV-SF332 (Fixed Dome)	WV-SF138 (Fixed Dome)	WV-SF135 (Fixed Dome)	WV-SF132 (Fixed Dome)	
						
Image Sensor	1/3 type MOS	1/3 type MOS	1/3 type MOS	1/3 type MOS	1/5 type MOS	
Max. Video Resolution (pixel)	1,280 x 960	800 x 600	2,048 x 1,536	1,280 x 960	640 x 480	
Wide Dynamic Range	Yes (WDR)	Yes (WDR)	Yes (Mega Super Dynamic)	N/A	N/A	
Day / Night	Day & Night (electrical)	Day & Night (electrical)	Day & Night (electrical)	Day & Night (electrical)	Day & Night (electrical)	
Auto Back Focus	Focus Assist	Focus Assist	N/A	N/A	N/A	
VIQS (Variable Image Quality on Specified area)	Yes (1 area)	Yes (1 area)	Yes (2 areas)	Yes (1 area)	Yes (1 area)	
Min. Illumination	Color	0.3 lx (F1.3)	0.2 lx (F1.3)	0.8 lx (F2.2)	2.0 lx (F2.9)	
	Color (Sens Up)	0.019 lx@ 16x (F1.3)	0.013 lx@ 16x (F1.3)	0.075 lx@ 16x (F2.2)	0.05 lx@ 16x (F2.2)	0.3 lx@ 16x (F2.9)
	B/W	0.2 lx (F1.3)	0.13 lx (F1.3)	0.9 lx (F2.2)	0.6 lx (F2.2)	1.3 lx (F2.9)
	B/W (Sens Up)	0.013 lx@ 16x (F1.3)	0.009 lx@ 16x (F1.3)	0.056 lx@ 16x (F2.2)	0.04 lx@ 16x (F2.2)	0.16 lx@ 16x (F2.9)
Pan	+180 / -170 °, Azimuth ±100 ° Manual	+180 / -170 °, Azimuth ±100 ° Manual	<Ceiling> -20 ~ 20 ° <Wall> -80 ~ 80 ° Manual	<Ceiling> -20 ~ 20 ° <Wall> -80 ~ 80 ° Manual	<Ceiling> -20 ~ 20 ° <Wall> -80 ~ 80 ° Manual	
Tilt	±75 ° Manual	±75 ° Manual	<Ceiling> -20 ~ 90 ° <Wall> -90 ~ 20 ° Manual	<Ceiling> -20 ~ 90 ° <Wall> -90 ~ 20 ° Manual	<Ceiling> -20 ~ 90 ° <Wall> -90 ~ 20 ° Manual	
Zoom	7.2x extra <sup>*2</sup> / 3.6x optical / 4x digital	7.2x extra <sup>*2</sup> / 3.6x optical / 4x digital	3 x extra <sup>*3</sup> / 4x digital	2 x extra <sup>*4</sup> / 4x digital	4x digital	
Angular Field of View	H: 27.7 ° (Tele) ~ 100.3 ° (Wide) V: 20.8 ° (Tele) ~ 73.5 ° (Wide)	H: 27.7 ° (Tele) ~ 100.3 ° (Wide) V: 20.8 ° (Tele) ~ 73.5 ° (Wide)	H: 100° / V: 81° (3 megapixels [4:3]) H: 95° / V: 62° (2/1.3 megapixels [16:9]) H: 84° / V: 68° (1.3 megapixels [4:3])	H: 104° / V: 85°	H: 68° / V: 53°	
Ambient Operating Temperature	-10 °C ~ +50 °C (14 °F ~ 122 °F)	-10 °C ~ +50 °C (14 °F ~ 122 °F)	0 °C ~ +40 °C (32 °F ~ 104 °F)	0 °C ~ +40 °C (32 °F ~ 104 °F)	0 °C ~ +40 °C (32 °F ~ 104 °F)	
Ambient Operating Humidity <sup>*5</sup>	90 % or less	90 % or less	90 % or less	90 % or less	90 % or less	
Supported Video Codec	H.264 / MPEG-4 / JPEG	H.264 / MPEG-4 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	
Audio <sup>*6</sup>	2-way	2-way	2-way	N/A	N/A	
Supported Audio Codec	G.726 (ADPCM) / G.711	G.726 (ADPCM) / G.711	G.726 (ADPCM) / G.711 / AAC <sup>*7</sup>	N/A	N/A	
SD Memory Card (Option)	SDHC / SD	SDHC / SD	SDXC / SDHC / SD	N/A	N/A	
External I/O Terminals	1x ALARM IN 1x ALARM OUT 1x AUX OUT	1x ALARM IN 1x ALARM OUT 1x AUX OUT	N/A	N/A	N/A	
Analog Video Output	Monitor Out (for adjustment)	Monitor Out (for adjustment)	N/A	N/A	N/A	
Built-in Microphone	N/A	N/A	Yes	N/A	N/A	
Power Source	12 V DC / PoE	12 V DC / PoE	PoE	PoE	PoE	
Others	Multiple H.264 & JPEG streaming, Fog Compensation	Multiple H.264 & JPEG streaming, Fog Compensation	Multiple H.264 & JPEG streaming, Built-in microphone	Multiple H.264 & JPEG streaming	Multiple H.264 & JPEG streaming	

Model No.	WV-SW458 (360-degree Dome)	WV-SW458M (360-degree Dome)	WV-SF448 (360-degree Dome)	WV-SF438 (360-degree Dome)
				
Image Sensor	1/3 type MOS	1/3 type MOS	1/3 type MOS	1/3 type MOS
Max. Video Resolution (pixel)	2,048 x 1,536	2,048 x 1,536	2,048 x 1,536	2,048 x 1,536
Wide Dynamic Range	Yes (Mega Super Dynamic)	Yes (Mega Super Dynamic)	Yes (Mega Super Dynamic)	Yes (Mega Super Dynamic)
Day / Night	Day & Night (electrical)	Day & Night (electrical)	Day & Night (electrical)	Day & Night (electrical)
Auto Back Focus	N/A	N/A	N/A	N/A
VIQS (Variable Image Quality on Specified area)	Yes (2 areas)	Yes (2 areas)	Yes (2 areas)	Yes (2 areas)
Min. Illumination	Color	1.5 lx (F2.4)	1.5 lx (F2.4)	1.5 lx (F2.4)
	Color (Sens Up)	0.1 lx@ 16x (F2.4)	0.1 lx@ 16x (F2.4)	0.1 lx@ 16x (F2.4)
	B/W	1.2 lx (F2.4)	1.2 lx (F2.4)	1.2 lx (F2.4)
	B/W (Sens Up)	0.08 lx@ 16x (F2.4)	0.08 lx@ 16x (F2.4)	0.08 lx@ 16x (F2.4)
Pan *7	ceiling : 360°(endless) wall : ±91°	ceiling : 360°(endless) wall : ±91°	ceiling : 360°(endless) wall : ±91°	floor/ceiling : 360°(endless) wall : ±94°
Tilt *7	ceiling : -1° ~ 181°(MAX) wall : ±88°	ceiling : -1° ~ 181°(MAX) wall : ±88°	ceiling : -1° ~ 181°(MAX) wall : ±88°	floor/ceiling : -4° ~ 184°(MAX) wall : ±90.5°
Digital Zoom	1x, 2x, 4x controlled by browser GUI (Panorama, Double Panorama, Fisheye mode) 1x ~ 4x (Quad PTZ or Single PTZ mode)	1x, 2x, 4x controlled by browser GUI (Panorama, Double Panorama, Fisheye mode) 1x ~ 4x (Quad PTZ or Single PTZ mode)	1x, 2x, 4x controlled by browser GUI (Panorama, Double Panorama, Fisheye mode) 1x to 4x (Quad PTZ or Single PTZ mode)	1x, 2x, 4x controlled by browser GUI (Panorama, Double Panorama, Fisheye mode) 1x ~ 4x (Quad PTZ or Single PTZ mode)
Angular Field of View	H: 182° V: 176°	H: 182° V: 176°	H: 182° V: 176°	H: 188° V: 181°
Ambient Operating Temperature	-40 °C ~ +50 °C (-40 °F ~ 122 °F)	-40 °C ~ +50 °C (-40 °F ~ 122 °F)	-10 °C ~ +50 °C (14 °F ~ 122 °F)	-10 °C to +50 °C (14 °F to 122 °F) (Ceiling / Wall / Camera mount bracket) -10 °C to +40 °C (14 °F to 104 °F) (Desktop / Tripod)
Ambient Operating Humidity *5	90 % or less	90 % or less	90 % or less	90 % or less
Supported Video Codec	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG
Audio *6	2-way	2-way	2-way	2-way
Supported Audio Codec	G.726 (ADPCM) / G.711	G.726 (ADPCM) / G.711	G.726 (ADPCM) / G.711	G.726 (ADPCM) / G.711
SD Memory Card (Option)	SDXC / SDHC / SD	SDXC / SDHC / SD	SDXC / SDHC / SD	SDXC / SDHC / SD
External I/O Terminals	ALARM IN 1, ALARM IN 2/ ALARM OUT, ALARM IN 3/ AUX OUT (x1 for each)	ALARM IN 1, ALARM IN 2/ ALARM OUT, ALARM IN 3/ AUX OUT (x1 for each)	ALARM IN 1, ALARM IN 2/ ALARM OUT, ALARM IN 3/ AUX OUT (x1 for each)	ALARM IN 1, ALARM IN 2/ ALARM OUT, ALARM IN 3/ AUX OUT (x1 for each)
Analog Video Output	N/A	N/A	N/A	N/A
Built-in Microphone	N/A	N/A	N/A	Yes
Power Source	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE
Others	Multiple H.264 & JPEG streaming, IP66 Rated, Vandal Resistant, Railway Application	Multiple H.264 & JPEG streaming, IP66 Rated, Vandal Resistant, Railway Application, M12 Connector	Multiple H.264 & JPEG streaming, Vandal Resistant, Privacy Mode	Multiple H.264 & JPEG streaming, Built-in microphone

\*1 extra optical zoom at 360p resolution  
\*2 extra optical zoom at VGA resolution



\*3 extra zoom at 360p resolution  
\*4 extra zoom at VGA resolution

\*5 without condensation

\*6 Audio output requires included Audio/Video Cable

\*7 without mechanical action

\*8 when the IR LED is lit

Model No.	WV-SW316L (Box)	WV-SW316 (Box)	WV-SW314 (Box) *NTSC only	
				
Image Sensor	1/3 type MOS	1/3 type MOS	1/3 type MOS	
Max. Video Resolution (pixel)	1,280x960	1,280x960	1,280x960	
Wide Dynamic Range	Yes (Mega Super Dynamic)	Yes (Mega Super Dynamic)	Yes (Mega Super Dynamic)	
Day / Night	Day & Night (IR)	Day & Night (IR)	Day & Night (electrical)	
Auto Back Focus	Yes	Yes	Focus Assist	
VIQS (Variable Image Quality on Specified area)	Yes (1 area)	Yes (1 area)	Yes (1 area)	
Min. Illumination	Color	0.3 lx (F1.3)	0.3 lx (F1.3)	
	Color (Sens Up)	0.019 lx@ 16x (F1.3)	0.019 lx@ 16x (F1.3)	
	B/W	0 lx (F1.3) *8	0.05 lx (F1.3)	0.2 lx (F1.3)
	B/W (Sens Up)	—	0.003 lx@ 16x (F1.3)	0.013 lx@ 16x (F1.3)
Pan	N/A	N/A	N/A	
Tilt	N/A	N/A	N/A	
Zoom	6.4x extra*2 / 3.2x optical / 4x digital	6.4x extra*2 / 3.2x optical / 4x digital	7.2x extra*2 / 3.6x optical / 4x digital	
Angular Field of View	H: 27.9 ° (Tele) ~ 90.6 ° (Wide) V: 20.9 ° (Tele) ~ 66.9 ° (Wide)	H: 27.9 ° (Tele) ~ 90.6 ° (Wide) V: 20.9 ° (Tele) ~ 66.9 ° (Wide)	H: 27.7 ° (Tele) ~ 100.3 ° (Wide) V: 20.8 ° (Tele) ~ 73.6 ° (Wide)	
Ambient Operating Temperature	-40 °C ~ +50 °C (-40 °F ~ 122°F)	-40 °C ~ +50 °C (-40 °F ~ 122°F)	-10 °C ~ +50 °C (14 °F ~ 122°F)	
Ambient Operating Humidity *5	90 % or less	90 % or less	90 % or less	
Supported Video Codec	H.264 / MPEG-4 / JPEG	H.264 / MPEG-4 / JPEG	H.264 / MPEG-4 / JPEG	
Audio *6	2-way	2-way	N/A	
Supported Audio Codec	G.726 (ADPCM) / G.711	G.726 (ADPCM) / G.711	N/A	
SD Memory Card (Option)	SDHC / SD	SDHC / SD	N/A	
External I/O Terminals	1x ALARM IN / DAY/NIGHT IN 1x ALARM OUT 1x AUX OUT	1x ALARM IN / DAY/NIGHT IN 1x ALARM OUT 1x AUX OUT	N/A	
Analog Video Output	Monitor Out (for adjustment)	Monitor Out (for adjustment)	Monitor Out (for adjustment)	
Built-in Microphone	N/A	N/A	N/A	
Power Source	12 V DC / PoE	12 V DC / PoE	PoE	
Others	Multiple H.264 & JPEG streaming, IP66 Rated, Fog Compensation, IR LED equipped	Multiple H.264 & JPEG streaming, IP66 Rated, Fog Compensation	Multiple H.264 & JPEG streaming, IP66 Rated, Fog Compensation	

Model No.	WV-SP509 (Box)	WV-SP508 (Box)	WV-SP306 (Box)	WV-SP305 (Box)
	 	 	 	 
Image Sensor	1/3 type MOS	1/3 type MOS	1/3 type MOS	1/3 type MOS
Max. Video Resolution (pixel)	2,048 x 1,536	2,048 x 1,536	1,280 x 960	1,280 x 960
Wide Dynamic Range	Yes (Mega Super Dynamic)	Yes (Mega Super Dynamic)	Yes (WDR)	Yes (WDR)
Day / Night	Day & Night (IR)	Day & Night (electrical)	Day & Night (IR)	Day & Night (electrical)
Auto Back Focus	Yes	Yes	Yes	Focus Assist
VIQS (Variable Image Quality on Specified area)	Yes (2 areas)	Yes (2 areas)	Yes (1 area)	Yes (1 area)
Min. Illumination	Color	0.5 lx (F1.4)	0.5 lx (F1.4)	0.3 lx (F1.4)
	Color (Sens Up)	0.03 lx@ 16x (F1.4)	0.03 lx@ 16x (F1.4)	0.019 lx@ 16x (F1.4)
	B/W	0.06 lx (F1.4)	0.3 lx (F1.4)	0.05 lx (F1.4)
	B/W (Sens Up)	0.004 lx@ 16x (F1.4)	0.02 lx@ 16x (F1.4)	0.003 lx@ 16x (F1.4)
Pan	N/A	N/A	N/A	N/A
Tilt	N/A	N/A	N/A	N/A
Zoom	3x extra <sup>*3</sup> / 4x digital	3x extra <sup>*3</sup> / 4x digital	2x extra <sup>*4</sup> / 4x digital	2x extra <sup>*4</sup> / 4x digital
Angular Field of View	Lens: optional	Lens: optional	Lens: optional	Lens: optional
Ambient Operating Temperature	-10 °C ~ +50 °C (14 °F ~ 122 °F)	-10 °C ~ +50 °C (14 °F ~ 122 °F)	-10 °C ~ +50 °C (14 °F ~ 122 °F)	-10 °C ~ +50 °C (14 °F ~ 122 °F)
Ambient Operating Humidity <sup>*5</sup>	90 % or less	90 % or less	90 % or less	90 % or less
Supported Video Codec	H.264 / JPEG	H.264 / JPEG	H.264 / MPEG-4 / JPEG	H.264 / MPEG-4 / JPEG
Audio <sup>*6</sup>	2-way	N/A	2-way	2-way
Supported Audio Codec	G.726 (ADPCM) / G.711	N/A	G.726 (ADPCM) / G.711	G.726 (ADPCM) / G.711
SD Memory Card (Option)	SDXC / SDHC / SD	N/A	SDHC / 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 1x ALARM OUT 1x AUX OUT	1x ALARM IN / DAY/NIGHT IN 1x ALARM OUT 1x AUX OUT	1x ALARM IN 1x ALARM OUT 1x AUX OUT
Analog Video Output	Monitor Out (for adjustment)	Monitor Out (for adjustment)	Monitor Out (for adjustment)	Monitor Out (for adjustment)
Built-in Microphone	N/A	N/A	N/A	N/A
Power Source	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE
Others	Multiple H.264 & JPEG streaming, Fog Compensation	Multiple H.264 & JPEG streaming, Fog Compensation	Multiple H.264 & JPEG streaming, Fog Compensation	Multiple H.264 & JPEG streaming, Fog Compensation

\*1 extra optical zoom at 360p resolution  
\*2 extra optical zoom at VGA resolution

\*3 extra zoom at 360p resolution  
\*4 extra zoom at VGA resolution

\*5 without condensation

\*6 Audio output requires included Audio/Video Cable



Model No.	WV-SP302 (Box)	WV-SP105 (Cylinder)	WV-SP102 (Cylinder)	
	 ONVIFS	 ONVIFS	 ONVIFS	
Image Sensor	1/3 type MOS	1/3 type MOS	1/5 type MOS	
Max. Video Resolution (pixel)	800 x 600	1,280 x 960	640 x 480	
Wide Dynamic Range	Yes (WDR)	N/A	N/A	
Day / Night	Day & Night (electrical)	Day & Night (electrical)	Day & Night (electrical)	
Auto Back Focus	Focus Assist	N/A	N/A	
VIQS (Variable Image Quality on Specified area)	Yes (1 area)	Yes (1 area)	Yes (1 area)	
Min. Illumination	Color	0.2 lx (F1.4)	0.8 lx (F2.2)	2.0 lx (F2.0)
	Color (Sens Up)	0.013 lx@ 16x (F1.4)	0.05 lx@ 16x (F2.2)	0.3 lx@ 8x (F2.0)
	B/W	0.13 lx (F1.4)	0.4 lx (F2.2)	1.3 lx (F2.0)
	B/W (Sens Up)	0.009 lx@ 16x (F1.4)	0.03 lx@ 16x (F2.2)	0.16 lx@ 8x (F2.0)
Pan	N/A	N/A	N/A	
Tilt	N/A	N/A	N/A	
Zoom	2x extra <sup>*4</sup> / 4x digital	2x extra <sup>*4</sup> / 4x digital	4x digital	
Angular Field of View	Lens: optional	H: 70.3° / V: 55.4 °	H: 66.9° / V: 52.3 °	
Ambient Operating Temperature	-10 °C ~ +50 °C (14 °F ~ 122 °F)	0 °C ~ +40 °C (32 °F ~ 104 °F)	0 °C ~ +40 °C (32 °F ~ 104 °F)	
Ambient Operating Humidity <sup>*5</sup>	90 % or less	90 % or less	90 % or less	
Supported Video Codec	H.264 / MPEG-4 / JPEG	H.264 / JPEG	H.264 / JPEG	
Audio <sup>*6</sup>	2-way	N/A	N/A	
Supported Audio Codec	G.726 (ADPCM) / G.711	N/A	N/A	
SD Memory Card (Option)	SDHC / SD	N/A	N/A	
External I/O Terminals	1x ALARM IN 1x ALARM OUT 1x AUX OUT	N/A	N/A	
Analog Video Output	Monitor Out (for adjustment)	N/A	N/A	
Built-in Microphone	N/A	N/A	N/A	
Power Source	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE	
Others	Multiple H.264 & JPEG streaming, Fog Compensation	Multiple H.264 & JPEG streaming	Multiple H.264 & JPEG streaming	

Model No.		WV-SW175 (Pan / Tilt)	WV-SW174W (Pan / Tilt)	WV-SW172 (Pan / Tilt)	WV-ST165 (Pan / Tilt)	WV-ST162 (Pan / Tilt)
		 	 	 	 	 
Image Sensor		1/4 type MOS	1/4 type MOS	1/4 type MOS	1/4 type MOS	1/4 type MOS
Max. Video Resolution (pixel)		1,280 x 960	1,280 x 960	800 x 600	1,280 x 960	800 x 600
Wide Dynamic Range		Yes (WDR)	Yes (WDR)	Yes (WDR)	Yes (WDR)	Yes (WDR)
Day / Night		Day & Night (electrical)	Day & Night (electrical)	Day & Night (electrical)	Day & Night (electrical)	Day & Night (electrical)
Auto Back Focus		N/A	N/A	N/A	N/A	N/A
VIQS (Variable Image Quality on Specified area)		N/A	N/A	N/A	N/A	N/A
Min. Illumination	Color	0.6 lx (F2.2)	0.6 lx (F2.2)	0.6 lx (F2.2)	0.6 lx (F2.2)	0.6 lx (F2.2)
	Color (Sens Up)	0.038 lx@ 16x (F2.2)	0.038 lx@ 16x (F2.2)	0.038 lx@ 16x (F2.2)	0.038 lx@ 16x (F2.2)	0.038 lx@ 16x (F2.2)
	B/W	0.5 lx (F2.2)	0.5 lx (F2.2)	0.5 lx (F2.2)	0.5 lx (F2.2)	0.5 lx (F2.2)
	B/W (Sens Up)	0.031 lx@ 16x (F2.2)	0.031 lx@ 16x (F2.2)	0.031 lx@ 16x (F2.2)	0.031 lx@ 16x (F2.2)	0.031 lx@ 16x (F2.2)
Pan		-47.5° ~ +47.5°	-47.5° ~ +47.5°	-47.5° ~ +47.5°	-47.5° ~ +47.5°	-47.5° ~ +47.5°
Tilt		-45° ~ +10°	-45° ~ +10°	-45° ~ +10°	-45° ~ +10°	-45° ~ +10°
Zoom		2x extra*4 / 8x digital	2x extra*4 / 8x digital	2x extra*4 / 8x digital	2x extra*4 / 8x digital	2x extra*4 / 8x digital
Angular Field of View		H: 85° / V: 68°	H: 85° / V: 68°	H: 85° / V: 68°	H: 85° / V: 68°	H: 85° / V: 68°
Ambient 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)	0°C ~ +40°C (32°F ~ 104°F)	0°C ~ +40°C (32°F ~ 104°F)
Ambient Operating Humidity *5		90 % or less	90 % or less	90 % or less	90 % or less	90 % or less
Supported Video Codec		H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG
Audio *6		2-way	2-way	2-way	2-way	2-way
Supported Audio Codec		G.726 (ADPCM) / G.711	G.726 (ADPCM) / G.711	G.726 (ADPCM) / G.711	G.726 (ADPCM) / G.711	G.726 (ADPCM) / G.711
SD Memory Card (Option)		SDHC / SD	N/A	SDHC / SD	SDHC / SD	SDHC / SD
External I/O Terminals		1x ALARM IN 1 1x ALARM IN 2 / ALARM OUT 1x ALARM IN 3 / AUX OUT, GND, 12V DC	1x ALARM IN 1 1x ALARM IN 2 / ALARM OUT 1x ALARM IN 3 / AUX OUT, GND, 12V DC	1x ALARM IN 1 1x ALARM IN 2 / ALARM OUT 1x ALARM IN 3 / AUX OUT, GND, 12V DC	1x ALARM IN 1 1x ALARM IN 2 / ALARM OUT 1x ALARM IN 3 / AUX OUT, GND, 12V DC	1x ALARM IN 1 1x ALARM IN 2 / ALARM OUT 1x ALARM IN 3 / AUX OUT, GND, 12V DC
Analog Video Output		Monitor Out (for adjustment)	Monitor Out (for adjustment)	Monitor Out (for adjustment)	Monitor Out (for adjustment)	Monitor Out (for adjustment)
Built-in Microphone		Yes	Yes	Yes	Yes	Yes
Power Source		12 V DC / PoE	12 V DC	12 V DC / PoE	12 V DC / PoE	12 V DC / PoE
Others		Multiple H.264 & JPEG streaming, IP55 Rated, Built-in microphone	Multiple H.264 & JPEG streaming IP55 Rated, Wireless LAN (IEEE802.11n/g/b), Built-in microphone	Multiple H.264 & JPEG streaming IP55 Rated, Built-in microphone	Multiple H.264 & JPEG streaming, Built-in microphone	Multiple H.264 & JPEG streaming, Built-in microphone

\*1 extra optical zoom at 360p resolution  
\*2 extra optical zoom at VGA resolution

\*3 extra zoom at 360p resolution  
\*4 extra zoom at VGA resolution

\*5 without condensation  
\*6 Audio output requires included Audio/Video Cable

\*7 ALL BL-models include AC adaptors

Model No.		BL-VT164W (Pan / Tilt)	BL-VT164 (Pan / Tilt)	BL-VP104W (Fixed)	BL-VP104 (Fixed)	BL-VP101 (Fixed)
						
Image Sensor		1/4 type MOS	1/4 type MOS	1/4 type MOS	1/4 type MOS	1/5 type MOS
Max. Video Resolution (pixel)		1,280 x 720	1,280 x 720	1,280 x 720	1,280 x 720	640 x 480
Wide Dynamic Range		N/A	N/A	N/A	N/A	N/A
Day / Night		Day & Night (electrical)	Day & Night (electrical)	Day & Night(electrical)	Day & Night(electrical)	Day & Night(electrical)
Auto Back Focus		N/A	N/A	N/A	N/A	N/A
VIQS (Variable Image Quality on Specified area)		N/A	N/A	N/A	N/A	N/A
Min. Illumination	Color	0.9 lx (F2.8)	0.9 lx (F2.8)	0.9 lx (F2.8)	0.9 lx (F2.8)	0.9 lx (F2.8)
	Color (Sens Up)	0.06 lx@ 16x (F2.8)	0.06 lx@ 16x (F2.8)	0.06 lx@ 16x (F2.8)	0.06 lx@ 16x (F2.8)	0.11 lx@ 8x (F2.8)
	B/W	0.6 lx (F2.8)	0.6 lx (F2.8)	0.6 lx (F2.8)	0.6 lx (F2.8)	0.6 lx (F2.8)
	B/W (Sens Up)	0.04 lx@ 16x (F2.8)	0.04 lx@ 16x (F2.8)	0.04 lx@ 16x (F2.8)	0.04 lx@ 16x (F2.8)	0.08 lx@ 8x (F2.8)
Pan		-41° ~ +41°	-41° ~ +41°	N/A	N/A	N/A
Tilt		-32° ~ +10°	-32° ~ +10°	N/A	N/A	N/A
Zoom		1.5 x extra*4 / 8x digital	1.5 x extra*4 / 8x digital	1.5x extra*4 / 4x digital	1.5x extra*4 / 4x digital	4x digital
Angular Field of View		H: 57° / V: 34°	H: 57° / V: 34°	H: 57° / V: 34°	H: 57° / V: 34°	H: 53° / V: 40.5°
Ambient Operating Temperature		0 °C ~ +40 °C (32 °F ~ 104 °F)	0 °C ~ +40 °C (32 °F ~ 104 °F)	0 °C ~ 40 °C (32 °F ~ 104 °F)	0 °C ~ 40 °C (32 °F ~ 104 °F)	0 °C ~ 40 °C (32 °F ~ 104 °F)
Ambient Operating Humidity *5		90 % or less	90 % or less	90 % or less	90 % or less	90 % or less
Supported Video Codec		H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG
Audio		2-way	2-way	N/A	N/A	N/A
Supported Audio Codec		G.726 (ADPCM) / G.711	G.726 (ADPCM) / G.711	N/A	N/A	N/A
SD Memory Card (Option)		N/A	N/A	N/A	N/A	N/A
External I/O Terminals		1x ALARM IN 1 / 1x ALARM IN 2 / ALARM OUT , 1x ALARM IN 3 / AUX OUT, GND	1x ALARM IN 1 / 1x ALARM IN 2 / ALARM OUT , 1x ALARM IN 3 / AUX OUT, GND	N/A	N/A	N/A
Analog Video Output		N/A	N/A	N/A	N/A	N/A
Built-in Microphone		Yes	Yes	N/A	N/A	N/A
Power Source *7		9 V DC	9 V DC	6.5 V DC	6.5 V DC	6.5 V DC
Others		Multiple H.264 & JPEG streaming, Wireless LAN (IEEE802.11n/g/b), Built-in microphone	Multiple H.264 & JPEG streaming, Built-in microphone	Multiple H.264 & JPEG streaming Wireless LAN(IEEE802.11n/g/b)	Multiple H.264 & JPEG streaming	Multiple H.264 & JPEG streaming



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  - Unauthorized use of products by a third party.
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