



**Panasonic**







***2015 VIDEO SURVEILLANCE  
QUICK REFERENCE GUIDE***  
*PRODUCT SPECIFICATIONS AND TECHNICAL DATA*



## IP CAMERAS

		OUTDOOR VANDAL DOME								
		HD 1080P	HD 1080P	HD 1080P	HD 720P	HD 1080P	HD 720P	HD 720P	4K Engine	HD 1080P
			 <small>Available June 2015</small>			 <small>Available July 2015</small>				
MODEL		WV-NW502S	WV-SFV631L	WV-SFV631LT	WV-SFV611L	WV-SFV531	WV-SFV311	WV-SFV310	WV-SFV481	WV-SW458 WV-SW458M WV-SW458MA
MAX IMAGE RESOLUTION		3.0MP (JPEG) 2.0MP (H.264)	3.0MP	3.0MP	1.3MP	3.0MP	1.3MP	1.3MP	9MP	3.0MP (JPEG) 2.0MP (H.264)
CAMERA TYPE		Outdoor Vandal Dome	Outdoor Vandal Dome	Outdoor Vandal Dome	Outdoor Vandal Dome	Outdoor Vandal Dome	Outdoor Vandal Dome	Outdoor Vandal Dome	Outdoor Vandal Dome	Outdoor Vandal Dome
SUPER DYNAMIC		Mega Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	WDR <sup>1</sup>	Mega Super Dynamic
IMAGING DEVICE		1/3" CCD Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/2" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan
VIDEO COMPRESSION		H.264 MPEG-4 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG
DAY/NIGHT		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REMOVABLE IR (D&N)		Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No
AUTO BACK FOCUS		Yes	Yes (Lens ABF)	Yes (Lens ABF)	Yes (Lens ABF)	Yes (Lens ABF)	Yes (Lens ABF)	Focus Assist	Yes (Lens ABF)	No
VIQS		Yes	Yes (8 areas)	Yes (8 areas)	Yes (8 areas)	Yes (8 areas)	Yes (8 areas)	Yes (8 areas)	Yes (8 areas)	Yes (2 areas)
MINIMUM ILLUMINATION	Color	3MP: 2.0 lux 1.3MP: 1.0 lux	0.04 lux	0.04 lux	0.01 lux	0.07 lux	0.01 lux	0.01 lux	0.3 lux	1.5 lux
	B/W	3MP: 0.16 lux 1.3MP: 0.08 lux	0 lux (w/IR LED)	0 lux (w/IR LED)	0 lux (w/IR LED)	0.02 lux	0.003 lux	0.008 lux	0.04 lux	1.2 lux
FPS JPEG		5fps (2048 x 1536) 30fps (1280 x 960)	30fps (2048 x 1536) 30fps (1920 x 1080)	30fps (2048 x 1536) 30fps (1920 x 1080)	30fps (1280 x 960)	30fps (2048 x 1536) 30fps (1920 x 1080)	30fps (1280 x 960)	30fps (1280 x 960)	15fps (9MP Fisheye) 30fps (4MP Fisheye)	15fps (2048 x 1536) 30fps (1920 x 1080)
FPS MPEG-4		30fps (640 x 480)	—	—	—	—	—	—	—	—
FPS H.264		15fps (1920 x 1080) 30fps (1280 x 960)	60fps (1920 x 1080) 30fps (2048 x 1536)	60fps (1920 x 1080) 30fps (2048 x 1536)	60fps (1280 x 720) 30fps (1280 x 960)	60fps (1920 x 1080) 30fps (2048 x 1536)	60fps (1280 x 720) 30fps (1280 x 960)	60fps (1280 x 720) 30fps (1280 x 960)	15fps (9MP Fisheye) 30fps (4MP Fisheye)	30fps (1920 x 1080) 30fps (1280 x 960)
AUDIO CAPABILITY		2-way	2-way	2-way	2-way	2-way	2-way	—	2-way	2-way
SD MEMORY CARD SLOT		Yes (SDHC)	Yes (SDXCx2)	Yes (SDXCx2)	Yes (SDXCx2)	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)
SD CARD RECORDING		30fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)
LENS TYPE		2.8x vari-focal 2.8mm - 8mm	2.8mm-10mm Motorized (AZ/AF/Hall)	9mm - 22mm	2.8mm - 10mm Motorized F1.3	2.8mm - 10mm	3.6x vari-focal 2.8mm - 10mm	3.6x vari-focal 2.8mm - 10mm	Fixed focal length 1.38mm	Fixed focal length 0.8mm
ZOOM		2.8x optical 4x electric	3.6x optical 10.8x (VGA) extra optical 4x electric	2.4x optical 7.2x (VGA) extra optical 4x electric	3.6x optical 7.2x (VGA) extra optical 4x electric	3.6x optical 10.8x (VGA) extra optical 4x electric	3.6x optical 7.2x (VGA) extra optical 4x electric	3.6x optical 7.2x (VGA) extra optical 4x electric	4x electric	4x electric
NETWORK		10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6
POWER		12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)
ALARM IN/OUTPUTS		2/1	3	3	3	3	3	3	3	2/1
MAX POWER CONSUMPTION		7.6W (PoE) 630mA (DC)	12.95W (PoE) 1080mA (DC)	12.95W (PoE) 1080mA (DC)	12.95W (PoE) 1010mA (DC)	TBD	12.0W (PoE) 710mA (DC)	11.5W (PoE) 660mA (DC)	9.6W (PoE) 910mA (DC)	6.0W (PoE) 540mA (DC)
OPERATING TEMPERATURE		-22°F - 122°F	-49°F - 122°F	-49°F - 122°F	-49°F - 122°F	-40°F - 122°F	-40°F - 122°F	-40°F - 122°F	40°F - 122°F	-40°F - 122°F
MOBILE TERMINAL/ PHONE SUPPORT <sup>2</sup>		No	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG
SECURITY		ID/PWD Host Authentication	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS
OTHER KEY FEATURES		Face Mega SD, Dehumidification Device, IP66	IR LED Equipped, Fog Compensation, High Light Compensation, Face SuperD, Dehumidification Device, IK10, IP66	IR LED Equipped, Fog Compensation, High Light Compensation, Face SuperD, Dehumidification Device, IK10, IP66	IR LED Equipped, Fog Compensation, High Light Compensation, Face SuperD, Dehumidification Device, IK10, IP66	Fog Compensation, High Light Compensation, Face SuperD, Dehumidification Device, IK10, IP66	Fog Compensation, High Light Compensation, Face SuperD, Dehumidification Device, IK10, IP66	Fog Compensation, High Light Compensation, Face SuperD, Dehumidification Device, IK10, IP66	Panorama, Double Panorama, HD Quad streams, Single/Quad PTZ, Fisheye, Dehumidification Device, IK10, IP66, In-vehicle Compatible EN50155 T1	Panorama, Double Panorama, VGA Quad Streams, Single PTZ, Fisheye, Face Mega SD, Dehumidification Device, IP66, M12 connector (WV-SW458M)
OPTION		Face Detection	Face Detection, iVMD	Face Detection, iVMD	Face Detection, iVMD	Face Detection, iVMD	Face Detection, iVMD	Face Detection, iVMD	iVMD, Video Analytics (People count/ Heat map/MOR)	Face Detection

## IP CAMERAS

	OUTDOOR VANDAL DOME				INDOOR DOME					
	HD 1080P	HD 720P	800 x 600	HD 720P	4K Engine	HD 1080P	HD 1080P	HD 720P	VGA	
										
	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	
<b>MODEL</b>	<b>WV-SW158</b>	<b>WV-SW155</b> <b>WV-SW155M</b> <b>WV-SW155MA</b>	<b>WV-SW152</b> <b>WV-SW152M</b>	<b>WV-SW115</b>	<b>WV-SFN480</b>	<b>WV-SF438</b>	<b>WV-SF138</b>	<b>WV-SF135</b>	<b>WV-SF132</b>	
<b>MAX IMAGE RESOLUTION</b>	3.0MP (JPEG) 2.0MP (H.264)	1.3MP	800 x 600	1.3MP	9MP	3.0MP (JPEG) 2.0MP (H.264)	3.0M (JPEG) 2.0M (H.264)	1.3MP	VGA	
<b>CAMERA TYPE</b>	Outdoor Vandal Dome	Outdoor Vandal Dome	Outdoor Vandal Dome	Outdoor Vandal Dome	Indoor Dome	Indoor Dome	Indoor Dome	Indoor Dome	Indoor Dome	
<b>SUPER DYNAMIC</b>	Mega Super Dynamic	Mega Super Dynamic	Super Dynamic	Mega Super Dynamic	WDR <sup>1</sup>	Mega Super Dynamic	Mega Super Dynamic	No	No	
<b>IMAGING DEVICE</b>	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/2" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/5" MOS Sensor Progressive Scan	
<b>VIDEO COMPRESSION</b>	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	
<b>DAY/NIGHT</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
<b>REMOVABLE IR (D&amp;N)</b>	No	No	No	No	No	No	No	No	No	
<b>AUTO BACK FOCUS</b>	No	No	No	No	Yes (Lens ABF)	No	No	No	No	
<b>VIOS</b>	Yes (2 areas)	Yes	Yes	Yes	Yes (8 areas)	Yes (2 areas)	Yes (2 areas)	Yes	Yes	
<b>MINIMUM ILLUMINATION</b>	<b>Color</b>	1.2 lux	0.8 lux	0.6 lux	0.8 lux	0.3 lux	1.5 lux	1.2 lux	0.8 lux	2.0 lux
	<b>B/W</b>	0.9 lux	0.6 lux	0.4 lux	0.6 lux	0.2 lux	1.2 lux	0.9 lux	0.6 lux	1.3 lux
<b>FPS JPEG</b>	15fps (2048 x 1536) 30fps (1920 x 1080)	30fps (1280 x 960)	30fps (800 x 600)	30fps (1280 x 960)	15fps (9MP Fisheye) 30fps (4MP Fisheye)	15fps (2048 x 1536) 30fps (1920 x 1080)	15fps (2048 x 1536) 30fps (1920 x 1080)	30fps (1280 x 960)	30fps (640 x 480)	
<b>FPS MPEG-4</b>	—	—	—	—	—	—	—	—	—	
<b>FPS H.264</b>	30fps (1920 x 1080) 30fps (1280 x 960)	30fps (1280 x 960)	30fps (800 x 600)	30fps (1280 x 960)	15fps (9MP Fisheye) 30fps (4MP Fisheye)	30fps (1920 x 1080) 30fps (1280 x 960)	30fps (1920 x 1080) 30fps (1280 x 960)	30fps (1280 x 960)	30fps (640 x 480)	
<b>AUDIO CAPABILITY</b>	2-way (Built-in MIC)	No	No	No	2-way (Built-in MIC)	2-way	2-Way (Built-in MIC)	No	No	
<b>SD MEMORY CARD SLOT</b>	Yes (SDXC)	Yes (SDHC)	Yes (SDHC)	Yes (SDHC)	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)	No	No	
<b>SD CARD RECORDING</b>	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)	No	No	
<b>LENS TYPE</b>	Fixed focal length 1.95mm	Fixed focal length 1.95mm	Fixed focal length 1.95mm	Fixed focal length 1.95mm	Fixed focal length 1.38mm	Fixed focal length 0.8mm	Fixed focal length 1.95mm	Fixed focal length 1.95mm	Fixed focal length 1.95mm	
<b>ZOOM</b>	3x (360P) extra zoom	2x (VGA) extra zoom	2x (VGA) extra zoom	2x (VGA) extra zoom	4x electric	4x electric	3x (360P) extra zoom	2x (VGA) extra zoom	4x electric	
<b>NETWORK</b>	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	
<b>POWER</b>	PoE (IEEE802.3af)	PoE (IEEE802.3af)	PoE (IEEE802.3af)	PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	PoE (IEEE802.3af)	PoE (IEEE802.3af)	PoE (IEEE802.3af)	
<b>ALARM IN/OUTPUTS</b>	No	No	No	No	3	2/1	No	No	No	
<b>MAX POWER CONSUMPTION</b>	5.3W (PoE)	2.7W (PoE)	2.7W (PoE)	2.7W (PoE)	9.6W (PoE) 910mA (DC)	6.0W (PoE) 540mA (DC)	5.3W (PoE)	2.6W (PoE)	2.2W (PoE)	
<b>OPERATING TEMPERATURE</b>	14°F - 122°F	14°F - 122°F	14°F - 122°F	14°F - 122°F	14°F - 122°F (Ceiling Wall/ Camera Mount Bracket) 14°F - 104°F (Desktop/Tripod)	14°F - 122°F	32°F - 104°F	32°F - 104°F	32°F - 104°F	
<b>MOBILE TERMINAL/ PHONE SUPPORT<sup>2</sup></b>	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	
<b>SECURITY</b>	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	
<b>OTHER KEY FEATURES</b>	Face Mega SD, IP66, IK10, compatible with EN50155	Face Mega SD, IP66, IK10, compatible with EN50155, M12 Connector (WV-SW155M)	Face Mega SD, IP66, IK10, compatible with EN50155, M12 Connector (WV-SW152M)	Face Mega SD, IP66, IK10, compatible with EN50155	Panorama, Double Panorama, HD Quad Streams, Single/Quad PTZ, Fisheye	Panorama, Double Panorama, VGA Quad Streams, Single PTZ, Fisheye, Face Mega SD	Face Mega SD	ABS <sup>5</sup>	ABS <sup>5</sup>	
<b>OPTION</b>	Face Detection, iVMD	Face Detection	Face Detection	Face Detection	iVMD, Video Analytics (People count/Heat map/MOR)	Face Detection	iVMD, Face Detection	Face Detection	Face Detection	

## IP CAMERAS

	INDOOR DOME					INDOOR VANDAL DOME				
	HD 1080P	HD 720P	HD 1080P	HD 720P	HD 720P	HD 1080P	HD 1080P	HD 720P	HD 1080P	
										
	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	Available July 2015 <b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	Available July 2015 <b>SmartHD</b> ONVIF S	
<b>MODEL</b>	<b>WV-SFN631L</b>	<b>WV-SFN611L</b>	<b>WV-SFN531</b>	<b>WV-SFN311</b>	<b>WV-SFN310</b>	<b>WV-SF448</b>	<b>WV-SFR631L</b>	<b>WV-SFR611L</b>	<b>WV-SFR531</b>	
<b>MAX IMAGE RESOLUTION</b>	3.0MP	1.3MP	3.0MP	1.3MP	1.3MP	3.0MP (JPEG) 2.0MP (H.264)	3.0MP	1.3MP	3.0MP	
<b>CAMERA TYPE</b>	Indoor Dome	Indoor Dome	Indoor Dome	Indoor Dome	Indoor Dome	Indoor Vandal Dome with Eyelid	Indoor Vandal Dome	Indoor Vandal Dome	Indoor Vandal Dome	
<b>SUPER DYNAMIC</b>	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	Mega Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	
<b>IMAGING DEVICE</b>	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	
<b>VIDEO COMPRESSION</b>	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	
<b>DAY/NIGHT</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
<b>REMOVABLE IR (D&amp;N)</b>	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	
<b>AUTO BACK FOCUS</b>	Yes (Lens ABF)	Yes (Lens ABF)	Yes (Lens ABF)	Yes (Lens ABF)	Focus Assist	No	Yes (Lens ABF)	Yes (Lens ABF)	Yes (Lens ABF)	
<b>VIQS</b>	Yes (8 areas)	Yes (8 areas)	Yes (8 areas)	Yes (8 areas)	Yes (8 areas)	Yes (2 areas)	Yes (8 areas)	Yes (8 areas)	Yes (8 areas)	
<b>MINIMUM ILLUMINATION</b>	<b>Color</b>	0.04 lux	0.01 lux	0.07 lux	0.01 lux	0.01 lux	1.5 lux	0.04 lux	0.01 lux	0.07 lux
	<b>B/W</b>	0 lux (w/IR LED)	0 lux (w/IR LED)	0.002 lux	0.003 lux	0.008 lux	1.2 lux	0 lux (w/IR LED)	0 lux (w/IR LED)	0.02 lux
<b>FPS JPEG</b>	30fps (2048 x 1536) 30fps (1920 x 1080)	30fps (1280 x 960)	30fps (2048 x 1536)	30fps (1280 x 960)	30fps (1280 x 960)	15fps (2048 x 1536) 30fps (1920 x 1080)	30fps (2048 x 1536) 30fps (1920 x 1080)	30fps (1280 x 960)	30fps (2048 x 1536) 30fps (1920 x 1080)	
<b>FPS MPEG-4</b>	—	—	—	—	—	—	—	—	—	
<b>FPS H.264</b>	60fps (1920 x 1080) 30fps (2048 x 1536)	60fps (1280 x 720) 30fps (1280 x 960)	60fps (1920 x 1080) 30fps (2048 x 1536)	60fps (1280 x 720) 30fps (1280 x 960)	60fps (1280 x 720) 30fps (1280 x 960)	30fps (1920 x 1080) 30fps (1280 x 960)	60fps (1920 x 1080) 30fps (2048 x 1536)	60fps (1280 x 720) 30fps (1280 x 960)	60fps (1920 x 1080) 30fps (2048 x 1536)	
<b>AUDIO CAPABILITY</b>	2-way	2-way	2-way	2-way	1-way (Built-in MIC)	2-way	2-way	2-way	2-way	
<b>SD MEMORY CARD SLOT</b>	Yes (SDXCx2)	Yes (SDXCx2)	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)	Yes (SDXCx2)	Yes (SDXCx2)	Yes (SDXC)	
<b>SD CARD RECORDING</b>	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	
<b>LENS TYPE</b>	2.8mm - 10mm Motorized (AZ/AF/Hall)	2.8mm - 10mm Motorized F1.3	2.8mm - 10mm	3.6x vari-focal 2.8mm - 10mm	3.6x vari-focal 2.8mm - 10mm	Fixed focal length 0.837mm	2.8mm - 10mm Motorized (AZ/AF/Hall)	2.8mm - 10mm Motorized F1.3	2.8mm - 10mm	
<b>ZOOM</b>	3.6x optical 10.8x (VGA) extra optical 4x electric	3.6x optical 7.2x (VGA) extra optical 4x electric	3.6x optical 10.8x (VGA) extra optical 4x electric	3.6x optical 7.2x (VGA) extra optical 4x electric	3.6x optical 7.2x (VGA) extra optical 4x electric	4x electric	3.6x optical 10.8x (VGA) extra optical 4x electric	3.6x optical 7.2x (VGA) extra optical 4x electric	3.6x optical 10.8x (VGA) extra optical 4x electric	
<b>NETWORK</b>	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	
<b>POWER</b>	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	
<b>ALARM IN/OUTPUTS</b>	3	3	3	3	3	3	3	3	3	
<b>MAX POWER CONSUMPTION</b>	11.1W (PoE) 760mA (DC)	9.4W (PoE) 690mA (DC)	TBD	6.2W (PoE) 340mA (DC)	5.8W (PoE) 310mA (DC)	6.7W (PoE) 7.3W (DC)	11.1W (PoE) 760mA (DC)	9.4W (PoE) 690mA (DC)	TBD	
<b>OPERATING TEMPERATURE</b>	-14°F - 122°F	-14°F - 122°F	14°F - 122°F	14°F - 122°F	14°F - 122°F	14°F - 122°F	-49°F - 122°F	-49°F - 122°F	14°F - 122°F	
<b>MOBILE TERMINAL/ PHONE SUPPORT<sup>2</sup></b>	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	
<b>SECURITY</b>	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	
<b>OTHER KEY FEATURES</b>	IR LED Equipped, Fog Compensation, High Light Compensation, Face SuperD	IR LED Equipped, Fog Compensation, High Light Compensation, Face SuperD	Fog Compensation, High Light Compensation, Face SuperD	Fog Compensation, High Light Compensation, Face SuperD	Fog Compensation, High Light Compensation, Face SuperD	Privacy Mode (Close Eyelid), Panorama, Double Panorama, VGA Quad Streams, Single PTZ Mode, Fisheye	IR LED equipped, Fog Compensation, High Light Compensation, Face SuperD	IR LED Equipped, Fog Compensation, High Light Compensation, Face SuperD	Fog Compensation, High Light Compensation, Face SuperD	
<b>OPTION</b>	Face Detection, iVMD	Face Detection, iVMD	Face Detection, iVMD	Face Detection, iVMD	Face Detection, iVMD	Face Detection	Face Detection, iVMD	Face Detection, iVMD	Face Detection, iVMD	









## IP CAMERAS

	INDOOR VANDAL DOME			OUTDOOR FIXED				INDOOR FIXED		
	HD 720P	HD 720P	4K Engine	HD 1080P	HD 1080P	HD 720P	HD 720P	HD 1080P	HD 720P	
										
	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	Available July 2015 <b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	<b>SmartHD</b> ONVIF S	
<b>MODEL</b>	<b>WV-SFR311</b>	<b>WV-SFR310</b>	<b>WV-SPV781L</b>	<b>WV-SPW631LT</b>	<b>WV-SPW631L</b>	<b>WV-SPW611L</b>	<b>WV-SPW611</b>	<b>WV-SPN631</b>	<b>WV-SPN611</b>	
<b>MAX IMAGE RESOLUTION</b>	1.3MP	1.3MP	4K	3.0MP	3.0MP	1.3MP	1.3MP	3.0MP	1.3MP	
<b>CAMERA TYPE</b>	Indoor Vandal Dome	Indoor Vandal Dome	Outdoor Fixed	Outdoor Fixed	Outdoor Fixed	Outdoor Fixed	Outdoor Fixed	Indoor Fixed	Indoor Fixed	
<b>SUPER DYNAMIC</b>	Enhanced Super Dynamic	Enhanced Super Dynamic	WDR <sup>1</sup>	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	
<b>IMAGING DEVICE</b>	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/1.7" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	
<b>VIDEO COMPRESSION</b>	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	
<b>DAY/NIGHT</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
<b>REMOVABLE IR (D&amp;N)</b>	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
<b>AUTO BACK FOCUS</b>	Yes (Lens ABF)	Focus Assist	Yes (Lens ABF)	ABF	ABF	ABF	ABF	ABF	ABF	
<b>VIQS</b>	Yes (8 areas)	Yes (8 areas)	Yes	Yes (8 areas)	Yes (8 areas)	Yes (8 areas)	Yes (8 areas)	Yes (8 areas)	Yes (8 areas)	
<b>MINIMUM ILLUMINATION</b>	<b>Color</b>	0.01 lux	0.01 lux	0.3 lux	0.06 lux	0.04 lux	0.01 lux	0.01 lux	0.04 lux	0.01 lux
	<b>B/W</b>	0.003 lux	0.008 lux	0 lux (w/IR LED)	0.0 lux	0.0 lux	0.0 lux	0.003 lux	0.01 lux	0.003 lux
<b>FPS JPEG</b>	30fps (1280 x 960)	30fps (1280 x 960)	30fps (4K)	30fps (2048 x 1536) 30fps (1920 x 1080)	30fps (2048 x 1536) 30fps (1920 x 1080)	30fps (1280 x 960)	30fps (1280 x 960)	30fps (2048 x 1536) 30fps (1920 x 1080)	30fps (1280 x 960)	
<b>FPS MPEG-4</b>	—	—	—	—	—	—	—	—	—	
<b>FPS H.264</b>	60fps (1280 x 720) 30fps (1280 x 960)	60fps (1280 x 720) 30fps (1280 x 960)	30fps (4K)	60fps (1920 x 1080) 30fps (2048 x 1536)	60fps (1920 x 1080) 30fps (2048 x 1536)	60fps (1280 x 720) 30fps (1280 x 960)	60fps (1280 x 720) 30fps (1280 x 960)	60fps (1920 x 1080) 30fps (2048 x 1536)	60fps (1280 x 720) 30fps (1280 x 960)	
<b>AUDIO CAPABILITY</b>	2-way	—	2-way	2-way	2-way	2-way	2-way	2-way	2-way	
<b>SD MEMORY CARD SLOT</b>	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)	Yes (SDXCx2)	Yes (SDXCx2)	Yes (SDXCx2)	Yes (SDXCx2)	Yes (SDXCx2)	Yes (SDXCx2)	
<b>SD CARD RECORDING</b>	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	TBD	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	
<b>LENS TYPE</b>	3.6x vari-focal 2.8mm - 10mm	3.6x vari-focal 2.8mm - 10mm	4.2mm-25.2mm Motorized	2.4x vari-focal 9mm - 22mm	3.6x vari-focal 2.8mm - 10mm	3.6x vari-focal 2.8mm - 10mm	3.6x vari-focal 2.8mm - 10mm	CS Mount	CS Mount	
<b>ZOOM</b>	3.6x optical 7.2x (VGA) extra optical 4x electric	3.6x optical 7.2x (VGA) extra optical 4x electric	6x optical	2.4x optical 7.2x (VGA) extra optical 4x electric	3.6x optical 10.8x (VGA) extra optical 4x electric	3.6x optical 7.2x (VGA) extra optical 4x electric	3.6x optical 7.2x (VGA) extra optical 4x electric	3x (VGA) extra optical 4x electric	2x (VGA) extra optical 4x electric	
<b>NETWORK</b>	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	
<b>POWER</b>	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	
<b>ALARM IN/OUTPUTS</b>	3	3	3	3	3	3	3	3	3	
<b>MAX POWER CONSUMPTION</b>	5.8W (PoE) 330mA (DC)	4.8W (PoE) 280mA (DC)	12VDC: 1050mA PoE: 265mA	12.95W (PoE) 1080mA (DC)	12.95W (PoE) 1080mA (DC)	12.95W (PoE) 1080mA (DC)	11.1W (PoE) 670mA (DC)	11.7W (PoE) 850mA (DC)	11.1W (PoE) 800mA (DC)	
<b>OPERATING TEMPERATURE</b>	14°F - 122°F	14°F - 122°F	-49°F - 122°F	-40°F - 122°F	-40°F - 122°F	-40°F - 122°F	-40°F - 122°F	-14°F - 122°F	-14°F - 122°F	
<b>MOBILE TERMINAL/ PHONE SUPPORT<sup>2</sup></b>	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	
<b>SECURITY</b>	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	
<b>OTHER KEY FEATURES</b>	Fog Compensation, High Light Compensation, Face SuperD, IK10	Fog Compensation, High Light Compensation, Face SuperD, IK10	IR LED Equipped, IP66, IK10, Dehumidification Device, High Light Compensation, Fog Compensation	IR LED Equipped, Fog Compensation, High Light Compensation, Face SuperD	IR LED Equipped, Fog Compensation, High Light Compensation, Face SuperD	IR LED Equipped, Fog Compensation, High Light Compensation, Face SuperD	Fog Compensation, High Light Compensation, Face SuperD	Fog Compensation, High Light Compensation, Face SuperD	Fog Compensation, High Light Compensation, Face SuperD	
<b>OPTION</b>	Face Detection, iVMD	Face Detection, iVMD	—	Face Detection, iVMD	Face Detection, iVMD	Face Detection, iVMD	Face Detection, iVMD	IR LED, Face Detection, iVMD	IR LED, Face Detection, iVMD	

## IP CAMERAS

Panasonic VW-SP318	INDOOR FIXED					OUTDOOR PT			INDOOR PT	
	HD 1080P	HD 720P	HD 720P	HD 720P	800 x 600	HD 720P	HD 720P	VGA	HD 720P	800 x 600
	 <b>NEW</b> Available April 2015 <b>SmarHD</b> <b>ONVIFS</b>	 <b>SmarHD</b> <b>ONVIFS</b>	 <b>SmarHD</b> <b>ONVIFS</b>	 <b>SmarHD</b> <b>ONVIFS</b>	 <b>SmarHD</b> <b>ONVIFS</b>	 <b>SmarHD</b> <b>ONVIFS</b>	 <b>SmarHD</b> <b>ONVIFS</b>	 <b>SmarHD</b> <b>ONVIFS</b>	 <b>SmarHD</b> <b>ONVIFS</b>	 <b>SmarHD</b> <b>ONVIFS</b>
MODEL	VW-SPN531	VW-SPN311	VW-SPN310	VW-SP105	VW-SP102	VW-SW174W	VW-SW175	VW-SW172	VW-ST165	VW-ST162
MAX IMAGE RESOLUTION	3.0MP	1.3MP	1.3MP	1.3MP	VGA	1.3MP	1.3MP	800 x 600	1.3MP	800 x 600
CAMERA TYPE	Indoor Fixed	Indoor Fixed	Indoor Fixed	Indoor Fixed	Indoor Fixed	Outdoor PT	Outdoor PT	Outdoor PT	Indoor PT	Indoor PT
SUPER DYNAMIC	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	No	No	No	No	No	No	No
IMAGING DEVICE	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/5" MOS Sensor Progressive Scan	1/4" MOS Sensor Progressive Scan	1/4" MOS Sensor Progressive Scan	1/4" MOS Sensor Progressive Scan	1/4" MOS Sensor Progressive Scan	1/4" MOS Sensor Progressive Scan
VIDEO COMPRESSION	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG	H.264 JPEG
DAY/NIGHT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REMOVABLE IR (D&N)	Yes	Yes	No	No	No	No	No	No	No	No
AUTO BACK FOCUS	ABF	ABF	Focus Assist	No	No	No	No	No	No	No
VIOS	Yes (8 areas)	Yes (8 areas)	Yes (8 areas)	Yes	Yes	No	No	No	No	No
MINIMUM ILLUMINATION	Color	0.04 lux	0.01 lux	0.01 lux	0.8 lux	2.0 lux	0.6 lux	0.6 lux	0.6 lux	0.6 lux
	B/W	0.01 lux	0.003 lux	0.008 lux	0.4 lux	1.3 lux	0.5 lux	0.5 lux	0.5 lux	0.5 lux
FPS JPEG	30fps (2048 x 1536) 30fps (1920 x 1080)	30fps (1280 x 960)	30fps (1280 x 960)	30fps (1280 x 960)	30fps (640 x 480)	30fps (1280 x 960)	30fps (1280 x 960)	30fps (800 x 600)	30fps (1280 x 960)	30fps (800 x 600)
FPS MPEG-4	—	—	—	—	—	30fps (640 x 480)	30fps (640 x 480)	30fps (640 x 480)	30fps (640 x 480)	30fps (640 x 480)
FPS H.264	60fps (1920 x 1080) 30fps (2048 x 1536)	60fps (1280 x 720) 30fps (1280 x 960)	60fps (1280 x 720) 30fps (1280 x 960)	30fps (1280 x 960)	30fps (640 x 480)	30fps (1280 x 960)	30fps (1280 x 960)	30fps (800 x 600)	30fps (1280 x 960)	30fps (800 x 600)
AUDIO CAPABILITY	2-way	2-way	1-way (Built-in MIC)	No	No	2-way (Built-in MIC)	2-way (Built-in MIC)	2-way (Built-in MIC)	2-way (Built-in MIC)	2-way (Built-in MIC)
SD MEMORY CARD SLOT	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)	No	No	No	Yes (SDHC)	Yes (SDHC)	Yes (SDHC)	Yes (SDHC)
SD CARD RECORDING	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	60fps (H.264) 1fps (JPEG)	No	No	No	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)
LENS TYPE	CS Mount	CS Mount	CS Mount	Fixed focal length 3.54mm	Fixed focal length 2mm	Fixed focal length 1.95mm	Fixed focal length 1.95mm	Fixed focal length 1.95mm	Fixed focal length 1.95mm	Fixed focal length 1.95mm
ZOOM	3x (VGA) extra optical 4x electric	2x (VGA) extra optical 4x electric	2x (VGA) extra optical 4x electric	2x (VGA) extra optical	No	2x (VGA) extra zoom	2x (VGA) extra zoom	2x (VGA) extra zoom	2x (VGA) extra zoom	2x (VGA) extra zoom
NETWORK	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6	10/100 BASE-TX IP v4/v6
POWER	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)
ALARM IN/OUTPUTS	3	3	3	No	No	2/1	2/1	2/1	2/1	2/1
MAX POWER CONSUMPTION	6.0W (PoE) 430mA (DC)	6.8W (PoE) 350mA (DC)	5.8W (PoE) 310mA (DC)	2.8W (PoE) 200mA (DC)	2.0W (PoE) 140mA (DC)	510mA (DC)	6.2W (PoE) 430mA (DC)	6.2W (PoE) 430mA (DC)	6.2W (PoE) 430mA (DC)	6.2W (PoE) 430mA (DC)
OPERATING TEMPERATURE	-14°F - 122°F	14°F - 122°F	14°F - 122°F	32°F - 104°F	32°F - 104°F	-4°F - 122°F	-4°F - 122°F	-4°F - 122°F	32°F - 104°F	32°F - 104°F
MOBILE TERMINAL/PHONE SUPPORT <sup>2</sup>	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG
SECURITY	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication	ID/PWD Host Authentication	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS	ID/PWD Host Authentication HTTPS
OTHER KEY FEATURES	Fog Compensation, High Light Compensation, Face SuperD	Fog Compensation, High Light Compensation, Face SuperD	Fog Compensation, High Light Compensation, Face SuperD	ABS <sup>5</sup>	ABS <sup>5</sup>	Face WDR <sup>1</sup> , IP55	Face WDR <sup>1</sup> , IP55	Face WDR <sup>1</sup> , IP55	Face WDR <sup>1</sup>	Face WDR <sup>1</sup>
OPTION	Face Detection, iVMD	Face Detection, iVMD	Face Detection, iVMD	—	—	—	—	—	—	—

## ANALOG CAMERAS





	OUTDOOR PTZ	INDOOR PTZ	OUTDOOR VANDAL DOME			INDOOR DOME	
							
MODEL	WV-CW594A	WV-CS584	WV-CW504S/F	WV-CW364S	WV-CW334S	WV-CF634 WV-CF624	WV-CF314L
WIDE DYNAMIC	SD6	SD6	SD5	No	No	SD6	No
IMAGING DEVICE	1/4"	1/4"	1/3"	1/3"	1/3"	1/3"	1/3"
DAY/NIGHT	Yes	Yes	Yes	Yes	Yes (Electrical)	Yes	Yes
IR SENSITIVITY	Yes	Yes	Yes	Yes	No	Yes	Yes
FOCUS	Auto Focus	Auto Focus	Auto Back Focus	N/A	N/A	WV-CF634: Auto Back Focus WV-CF624: N/A	Auto Back Focus
MINIMUM ILLUMINATION (COLOR)	0.5 lux	0.5 lux	0.1 lux	0.6 lux	0.6 lux	0.08 lux	0.08 lux
MINIMUM ILLUMINATION (COLOR WITH SENS UP)	0.02 lux (32x sens up) 0.001 lux (512x sens up)	0.02 lux (32x sens up) 0.001 lux (512x sens up)	0.003 lux (32x sens up)	N/A	N/A	0.0025 lux (32x sens up) 0.00016 lux (512x sens up)	0.0025 lux (32x sens up) 0.00016 lux (512x sens up)
MINIMUM ILLUMINATION (B/W)	0.04 lux	0.04 lux	0.01 lux	0.05 lux	0.4 lux	0.008 lux	0.00 lux
MINIMUM ILLUMINATION (B/W WITH SENS UP)	0.0013 lux (32x sens up) 0.00008 lux (512x sens up)	0.0013 lux (32x sens up) 0.00008 lux (512x sens up)	0.0003 lux (32x sens up)	N/A	N/A	0.00025 lux (32x sens up) 0.000016 lux (512x sens up)	0.0016 lux (32x sens up) 0.000008 lux (512x sens up)
HORIZONTAL RESOLUTION	650 TV Lines	650 TV Lines	650 TV Lines	540 TV Lines	540 TV Lines	650 TV Lines	650 TV Lines
FOCAL LENGTH	3.3mm - 119mm	3.3mm - 119mm	3.8mm - 8mm vari-focal	2.8mm - 10mm vari-focal	2.8mm - 10mm vari-focal	2.8mm - 10mm vari-focal	2.8mm - 10mm vari-focal
ZOOM	36x Optical/20x Digital	36x Optical/20x Digital	2.1x Optical/2x Digital	3.6x Optical	3.6x Optical	3.6x Optical/2x Digital	3.6x Optical/2x Digital
LENS MOUNT	Proprietary	Proprietary	CS Mount	Proprietary	Proprietary	Proprietary	Proprietary
MOTION DETECTION	Yes	Yes	i-VMD (Intelligent VMD)	No	No	Yes	Yes
ON SCREEN DISPLAY	Yes	Yes	Yes	No	No	Yes	Yes
IMAGE STABILIZATION	Yes	Yes	Yes	No	No	Yes	Yes
LIGHT CONTROL	ALC	ALC	ALC/ALC+	ALC	ALC	ALC/ALC+/ELC	ALC/ALC+/ELC
IP66	Yes	No	Yes	Yes	Yes	No	No
IMPACT PROTECTION STANDARD	N/A	N/A	IEC 60068-2-75: 50J	IEC 60068-2-75: 50J	IEC 60068-2-75: 50J	N/A	N/A
POWER	24VAC	24VAC	24VAC/12VDC	24VAC/12VDC	24VAC/12VDC	24VAC/12VDC	24VAC/12VDC
POWER CONSUMPTION	98W	4.3W	AC 3.4W (Without Heater) AC 14W (With Heater) DC 280mA (Without Heater)	AC 2.9W (Without Heater) AC 13.1W (With Heater) DC 250mA (Without Heater)	AC 2.9W (Without Heater) AC 13.1W (With Heater) DC 250mA (Without Heater)	AC 2.5W DC 220mA	AC 3.6W DC 410mA
OPERATING TEMPERATURE	-58°F - 122°F	14°F - 122°F	14°F - 122°F -22°F - 122°F (With Heater)	14°F - 122°F -22°F - 122°F (With Heater)	14°F - 122°F -22°F - 122°F (With Heater)	14°F - 122°F	14°F - 122°F
KEY FEATURES	Auto Tracking with Pan/Tilt, Privacy Zone Masking	Auto Tracking with Pan/Tilt, Privacy Zone Masking	Intelligent VMD (Object Left Behind/Removal, Loitering, Direction), Dehumidification Device	ABS <sup>5</sup>	ABS <sup>5</sup>	ABS <sup>5</sup> , Lens Distortion Compensation	IR LED Light, ABS <sup>5</sup> , Lens Distortion Compensation

## ANALOG CAMERAS

	INDOOR DOME	OUTDOOR FIXED	FIXED				
							
MODEL	WV-CF354 WV-CF344	WV-CW314L	WV-CP500 WV-CP504	WV-CP630 WV-CP634	WV-CP620 WV-CP624	WV-CP310 WV-CP314	WV-CP300 WV-CP304
WIDE DYNAMIC	No	No	SD5	SD6	SD6	No	No
IMAGING DEVICE	1/3"	1/3"	1/3"	1/3"	1/3"	1/3"	1/3"
DAY/NIGHT	Yes (Electrical)	Yes	Yes	Yes	Yes	Yes	Yes (Electrical)
IR SENSITIVITY	No	Yes	Yes	Yes	Yes	Yes	No
FOCUS	WV-CF354: Auto Back Focus WV-CF344: N/A	Auto Back Focus	Auto Back Focus	Auto Back Focus	N/A	N/A	N/A
MINIMUM ILLUMINATION (COLOR)	0.08 lux	0.08 lux	0.1 lux @ F1.4	0.08 lux @ F1.4	0.08 lux @ F1.4	0.08 lux @ F1.4	0.08 lux @ F1.4
MINIMUM ILLUMINATION (COLOR WITH SENS UP)	0.0025 lux (32x sens up) 0.00016 lux (512x sens up)	0.0025 lux (32x sens up) 0.00016 lux (512x sens up)	0.003 lux @ F1.4 (32x sens up)	0.003 lux (32x sens up)	0.0025 lux (32x sens up) 0.00016 lux (512x sens up)	0.0025 lux (32x sens up) 0.00016 lux (512x sens up)	0.0025 lux (32x sens up) 0.00016 lux (512x sens up)
MINIMUM ILLUMINATION (B/W)	0.05 lux	0.00 lux	0.01 lux @ F1.4	0.008 lux @ F1.4	0.008 lux @ F1.4	0.008 lux @ F1.4	0.05 lux @ F1.4
MINIMUM ILLUMINATION (B/W WITH SENS UP)	0.0016 lux (32x sens up) 0.00010 lux (512x sens up)	0.0016 lux (32x sens up) 0.00000 lux (512x sens up)	0.0003 lux @ F1.4 (32x sens up)	0.0003 lux (32x sens up)	0.00025 lux (32x sens up) 0.000016 lux (512x sens up)	0.00025 lux (32x sens up) 0.000016 lux (512x sens up)	0.0016 lux (32x sens up) 0.00010 lux (512x sens up)
HORIZONTAL RESOLUTION	650 TV Lines	650 TV Lines	650 TV Lines	700 TV lines	650 TV Lines	650 TV Lines	650 TV Lines
FOCAL LENGTH	2.8mm - 10mm vari-focal	2.8mm - 10mm vari-focal	Optional	Optional	Optional	Optional	Optional
ZOOM	3.6x Optical/2x Digital	3.6x Optical/2x Digital	2x Digital	2x Digital	2x Digital	2x Digital	2x Digital
LENS MOUNT	Proprietary	Proprietary	CS Mount	CS Mount	CS Mount	CS Mount	CS Mount
MOTION DETECTION	Yes	Yes	i-VMD, (Intelligent VMD)	Yes	Yes	Yes	Yes
ON SCREEN DISPLAY	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IMAGE STABILIZATION	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LIGHT CONTROL	ALC/ALC+/ELC	ALC/ALC+/ELC	ALC/ALC+/ELC	ALC/ALC+/ELC	ALC/ALC+/ELC	ALC/ALC+/ELC	ALC/ALC+/ELC
IP66	No	Yes	No	No	No	No	No
IMPACT PROTECTION STANDARD	N/A	N/A	N/A	N/A	N/A	N/A	N/A
POWER	24VAC/12VDC	24VAC/12VDC	WV-CP500: 120VAC WV-CP504: 24VAC/12VDC	WV-CP630: 120VAC WV-CP634: 24VAC/12VDC	WV-CP620: 120VAC WV-CP624: 24VAC/12VDC	WV-CP310: 120VAC WV-CP314: 24VAC/12VDC	WV-CP300: 120VAC WV-CP304: 24VAC/12VDC
POWER CONSUMPTION	AC 2.1W DC 180mA	AC 5.2W DC 560mA	WV-CP500: AC 3.2W WV-CP504: AC 3.6W DC 310mA	WV-CP630: AC 2.3W WV-CP634: AC 2.5W DC 220mA	WV-CP620: AC 2.3W WV-CP624: AC 2.5W DC 210mA	WV-CP310: AC 1.9W WV-CP314: AC 2.3W DC 210mA	WV-CP300: AC 1.9W WV-CP304: AC 2.3W DC 210mA
OPERATING TEMPERATURE	14°F - 122°F	14°F - 122°F	14°F - 122°F	14°F - 122°F	14°F - 122°F	14°F - 122°F	14°F - 122°F
KEY FEATURES	ABS <sup>5</sup> , Lens Distortion Compensation	IR LED Light, ABS <sup>5</sup> , Lens Distortion Compensation	Intelligent VMD (Object Left Behind/Removal, Loitering, Direction)	ABS <sup>5</sup> , Lens Distortion Compensation	ABS <sup>5</sup> , Lens Distortion Compensation	ABS <sup>5</sup> , Lens Distortion Compensation	ABS <sup>5</sup> , Lens Distortion Compensation



## NETWORK VIDEO RECORDERS

				
<b>MODEL</b>	<b>WJ-ND400</b>	<b>WJ-NV300</b>	<b>WJ-NV200</b>	<b>WJ-HDE400</b> <b>HARD DISK EXTENSION UNIT</b>
<b>SUPPORTED VIDEO COMPRESSION</b>	H.264 / MPEG-4 / M-JPEG	H.264 / M-JPEG	H.264 / MPEG-4 / M-JPEG	
<b>SUPPORTED CAMERA BRANDS</b>	Panasonic (i-PRO & BB) <sup>6</sup> Axis (JPEG, MPEG4) <sup>7</sup>	Panasonic (i-PRO & BB) <sup>6</sup> Axis, SONY <sup>8</sup>	Panasonic (i-PRO & BB) <sup>6</sup> Axis, SONY <sup>8</sup>	
<b>MAX. IP CAMERA NUMBER</b>	64 cameras at H.264 2Mbps	32 cameras at H.264 4Mbps	16 cameras at H.264 4Mbps	
<b>MAX. HDD</b>	9 drives (internal) 54 drives (with external)	2 drives (internal) 18 drives (with external)	2 drives (internal)	
<b>MAX. STORAGE</b>	27TB (internal, 3TB HDD) 162TB (with external, 3TB HDD)	8TB (internal, 4TB HDD) 72TB (with external, 4TB HDD)	6TB (internal, 3TB HDD)	
<b>SUPPORTED VIDEO RESOLUTION</b>	3MP (2048 x 1536) 1.3MP (1280 x 960) VGA (640 x 480) QVGA (320 x 240)	3MP (2048 x 1536) 1.3MP (1280 x 960) VGA (640 x 480) QVGA (320 x 240)	1.3MP (1280 x 960) VGA (640 x 480) QVGA (320 x 240)	
<b>MAX. RECORDING RATE (TOTAL)</b>	Approx. 1920fps (30fps at 64 cameras)	Approx. 1920fps (60fps at 32 cameras)	Approx. 480fps (30fps at 16 cameras)	
<b>RAID SUPPORT</b>	RAID5/6	RAID1, RAID5/6 (WJ-HDE400)	No	
<b>MAX. NETWORK BANDWIDTH</b>	128Mbps (Camera recording) 72Mbps (PC monitoring)	128Mbps (Camera recording) 32Mbps (PC monitoring) 16Mbps (HDMI out monitoring)	64Mbps (Camera recording) 32Mbps (PC monitoring) 13Mbps (HDMI out monitoring)	
<b>ALARM/CONTROL PORTS</b>	32 terminal alarm inputs 32 terminal alarm outputs Control/AUX	9 terminal alarm inputs 1 terminal alarm outputs	9 terminal alarm inputs 9 terminal alarm outputs	
<b>RTP OVER HTTP (FROM IP CAMERAS)</b>	No	No	No	
<b>RTP OVER HTTP (FOR CLIENT MONITORING)</b>	Yes	Yes	Yes	
<b>FUNCTIONS</b>	Metadata smart search	HD 1080P HDMI Output (Built-in Decoder) Real-time face matching (Optional) Mouse operation	HD 1080i HDMI Output (Built-in Decoder) Real-time face matching Mouse operation	
<b>NETWORK I/F</b>	2x 100/1000 Base-T, 1x 10 Base-T	2x 100/1000 Base-T	1x 100/1000 Base-T	
<b>POWER</b>	120 VAC, 60Hz	120 VAC, 60Hz	120 VAC, 60Hz	
<b>POWER CONSUMPTION</b>	Approx. 170W	Approx. 55W (4TBx2 HDD)	Approx. 45W	
<b>RACK MOUNTABLE</b>	Yes (3U)	Optional (2U)	Optional (1U)	
<b>REMOTE MONITORING</b>	Yes (Microsoft Internet Explorer, WV-ASM100 series, WV-ASM200 series, WV-ASM970)	Yes (Microsoft Internet Explorer, WV-ASM200 series, WV-ASM970)	Yes (Microsoft Internet Explorer, WV-ASM100 series, WV-ASM200 series, WV-ASM970)	
<b>POWER SOURCE</b>				NTSC Model: 120VAC, 60Hz PAL Model: 220V - 240VAC, 50Hz
<b>POWER CONSUMPTION</b>				130 W
<b>AMBIENT OPERATING TEMPERATURE</b>				41°F - 113°F
<b>AMBIENT OPERATING HUMIDITY</b>				5% - 90% (noncondensing)
<b>MAXIMUM OPERATING ALTITUDE</b>				6,562 feet above sea level
<b>DIMENSIONS (W X H X D)</b>				16-15/16" x 5-3/16" x 15-12/16" (excluding rubber feet and projections)
<b>WEIGHT</b>				29.8 lbs. (When no HDD exists) 44.15 lbs. (When all 9 HDDs are installed)
<b>HDD TYPE/ FUNCTION</b>				3.5" HDD (Up to 9 HDDs), RAID5 mode available (Only when 3 or more HDDs are installed), RAID6 mode available (Only when 4 or more HDDs are installed)
<b>EXTERNAL INPUT CONNECTOR</b>				High-speed serial interface, 1.5Gbps (theoretical value), x1

## DIGITAL VIDEO RECORDERS

		
<b>MODEL</b>	<b>WJ-HD716</b>	<b>WJ-HD616</b>
<b>RECORDING VIDEO COMPRESSION</b>	H.264	H.264
<b>VIDEO INPUTS/LOOP THROUGH</b>	16/16	16/16
<b>MONITOR OUT</b>	2x HDMI, 2x Composite (BNC) (All: Multiscreen)	2x HDMI, 2x Composite (BNC) (All: Multiscreen)
<b>AUDIO INPUTS/OUTPUTS</b>	4/2	4/2
<b>MAX. HDD</b>	4 drives (internal) 31 drives (with external)	4 drives (internal) 31 drives (with external)
<b>MAX. STORAGE</b>	12TB (internal, 3TB HDD) 93TB (with external, 3TB HDD)	12TB (internal, 3TB HDD) 93TB (with external, 3TB HDD)
<b>RECORDING RESOLUTION</b>	Frame (720 x 480); Field (720 x 240)	Frame (720 x 480); Field (720 x 240)
<b>MAX. RECORDING RATE (TOTAL)</b>	480ips at Field (720 x 240) 240ips at Frame (720 x 480)	240ips at Field (720 x 240) 120ips at Frame (720 x 480)
<b>RAID SUPPORT</b>	RAID5/6 Optional (WJ-HDE400)	RAID5/6 Optional (WJ-HDE400)
<b>HDMI CASCADE</b>	Up to 5 main units	Up to 5 main units
<b>COAX PTZ CONTROL</b>	16 (for Panasonic camera)	8 (for Panasonic camera)
<b>RS485 CAMERA INTERFACE</b>	2x RS485, 2/4 wire, half duplex (for 1-16 CH)	2x RS485, 2/4 wire, half duplex (for 1-16 CH)
<b>ALARM/CONTROL PORTS</b>	16 terminal alarm inputs 16 terminal alarm outputs 1 alarm reset input 1 alarm suspend input	16 terminal alarm inputs 16 terminal alarm outputs 1 alarm reset input 1 alarm suspend input
<b>COPY PORTS</b>	Built-in SD/SDHC slot CD/DVD burner (Optional: WJ-HDB611)	Built-in SD/SDHC slot CD/DVD burner (Optional: WJ-HDB611)
<b>RTP OVER HTTP (FOR INTERNET MONITORING)</b>	Yes	Yes
<b>FUNCTIONS</b>	Dual HD 1080i HDMI Outputs Mouse operation Timeline bar search SD5 Link	Dual HD 1080i HDMI Outputs Mouse operation Timeline bar search SD5 Link
<b>NETWORK I/F</b>	2x 10/100 Base-TX	2x 10/100 Base-TX
<b>POWER</b>	120 VAC, 60Hz	120 VAC, 60Hz
<b>POWER CONSUMPTION</b>	Approx. 130W	Approx. 130W
<b>RACK MOUNTABLE</b>	Yes (3U)	Yes (3U)
<b>REMOTE MONITORING</b>	Yes (Microsoft Internet Explorer, WV-ASM100 series, WV-ASM200 series, WV-ASM970)	Yes (Microsoft Internet Explorer, WV-ASM100 series, WV-ASM200 series, WV-ASM970)

## ENCODERS/DECODERS

MODEL	WJ-GXE500	WJ-GXE100	WJ-GXD400
PRODUCT TYPE	4 CH Video Encoder	1 CH Video Encoder	6 CH HD 1080i Video Decoder
SUPPORTED VIDEO COMPRESSION	H.264 / MPEG-4 / M-JPEG	H.264 / M-JPEG	H.264 / MPEG-4 / M-JPEG
VIDEO INPUTS/OUTPUTS	4 (Input)	1 (Input)	HDMI x1 (Output) NTSC Composite (BNC) x1 (Output)
AUDIO INPUTS/OUTPUTS	1 (Input)	—	HDMIx1 (Output) RCA x1 (Output)
SUPPORTED VIDEO RESOLUTION	D1 (720 x 480) VGA (640 x 480) QVGA (320 x 240)	D1 (720 x 480) VGA (640 x 480) QVGA (320 x 240)	1.3MP (1280 x 960) VGA (640 x 480) QVGA (320 x 240)
DISPLAY PATTERN	—	—	Single (1x 1280 x 960) 3 split-screen (1x 1280 x 960, 2x VGA) 6 split-screen (6x VGA)
MAX. FPS	30fps/ch at H.264 in all resolutions	30fps/ch at H.264 in all resolutions	30fps/ch at H.264 in VGA
COAX PTZ CONTROL	4 (for Panasonic camera)	—	—
RS485 CAMERA INTERFACE	1x RS485, 2/4 wire, half duplex (for 1-4 CH)	1x RS485, 2/4 wire, half duplex	—
NETWORK I/F	1x 10/100 Base-TX	1x 10/100 Base-TX	1x 100/1000 Base-T
SD MEMORY CARD SLOT	Yes (SDHC)	—	—
SD CARD RECORDING	1fps (JPEG)	—	—
FUNCTIONS	Face Detection (CH 1 only) Dual Stream RTP over HTTP	Dual Stream RTP over HTTP	HD1080i HDMI Output
POWER	PoE, 12VDC	PoE, 12VDC	12VDC
POWER CONSUMPTION	6W	12VDC: 200mA PoE 48V: 75mA	12VDC, 1.4A
RACK MOUNTABLE	Optional (3 units for 1U) (WV-Q204/2S)	—	Optional (2 units for 1U) (WV-Q204/1S, WV-Q204/2S)

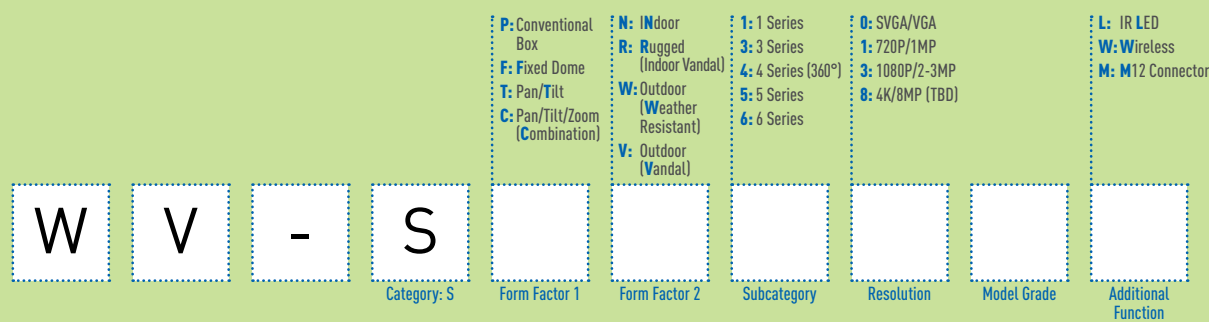
## CONVERTERS

MODEL	BY-HPE11KTA (including 1x center adaptor and 1x camera adaptor)	
PRODUCT TYPE	Coaxial-LAN Converter with PoE Function	
	CENTER ADAPTOR	CAMERA ADAPTOR
TRANSMISSION SPEED (UDP) <sup>10</sup>	45Mbps or higher (when using an RG-59/U coaxial cable of less than 3,937 ft. [1.2km])	
TRANSMISSION SPEED (TCP) <sup>10</sup>	35Mbps or higher (when using an RG-59/U coaxial cable of less than 3,937 ft. [1.2km])	
MAX. TRANSMISSION DISTANCE	Without PoE function: Max. 6,561 ft. [2km] (w/ RG-6/U) / Max. 3,937 ft. [1.2km] (w/ RG-59/U)  With PoE Function: Max. 1,640 ft. [500m] (w/ RG-6/U) / Max. 656 ft. [200m] (w/ RG-59/U)	
COAXIAL I/F	1x BNC	1x BNC
NETWORK I/F	1x 10/100 Base-TX	1x 10/100 Base-TX, PoE <sup>11</sup>
FUNCTIONS	PoE capability for IP cameras Plug & Play (No Setup Required)	
OPERATING TEMPERATURE	32°F - 122°F (Center Adaptor)	14°F - 122°F (Camera Adaptor)
POWER	100-240VAC	Power supplied through the coax cable from the center adaptor
POWER CONSUMPTION	Max. 28W (including the power consumption of the camera adaptor)	Max. 15.4W (PoE capability)
RACK MOUNTABLE	Optional (4 center adaptors for 1U) (BY-HCA10A)	—

## SOFTWARE

FUNCTIONS			WV-ASM200 + WV-ASE201 + WV-ASE202 + WV-ASE203 + WV-ASE231 + WV-ASE204 WITH EXTENSION SOFTWARE	WV-ASM200 MANAGEMENT SOFTWARE	PMPU2000 IP MATRIX SERVER SOFTWARE + CLIENT SOFTWARE
MAIN FUNCTIONS / DESCRIPTION			Live / Playback / Control	Live / Playback / Control	Live / Playback / Control
SUPPORTED VIDEO FORMAT			H.264 / MPEG4 / M-JPEG	H.264 / MPEG4 / M-JPEG	H.264 / MPEG4 / M-JPEG
SUPPORTED VIDEO ASPECT RATIO			4:3 / 16:9	4:3 / 16:9	4:3 / 16:9
SUPPORTED DEVICES	CAMERA	DIRECT	i-PRO series <sup>12</sup>	i-PRO series <sup>12</sup>	i-PRO series <sup>12</sup> , Panasonic Analog Cameras
		VIA RECORDER	i-PRO Series <sup>12</sup> , BB Series <sup>13</sup> , Axis <sup>13</sup>	i-PRO Series <sup>12</sup> , BB Series <sup>13</sup> , Axis <sup>13</sup>	i-PRO Series <sup>12</sup> , BB Series <sup>13</sup> , Axis <sup>13</sup>
	RECORDER	NVR	WJ-ND400, WJ-ND300/300A, WJ-ND200, WJ-NV200	WJ-ND400, WJ-ND300/300A, WJ-ND200, WJ-NV200	WJ-ND400, WJ-ND300/300A, WJ-ND200, WJ-NV200
		DVR	WJ-HD616/716, WJ-HD309A/316A, WJ-RT416 series	WJ-HD616/716, WJ-HD309A/316A, WJ-RT416 series	WJ-HD616/716, WJ-HD309A/316A, WJ-RT416 series
	ENCODER		WJ-GXE500, WJ-NT304, WJ-NT314	WJ-GXE500, WJ-NT304, WJ-NT314	WJ-GXE500, WJ-GXE100, WJ-NT304, WJ-NT314, WJ-GXE900 (MPEG-2 Encoder) <sup>19</sup>
CONTROLLER		WV-CU950	No	WV-CU950	
MAX DEVICES	CAMERA	DIRECT	256 / 1280 <sup>17</sup>	256	1023/PMPU (Total number of IP devices <sup>21</sup> )  2048/PMPU (Total number of IP devices <sup>21</sup> and analog cameras)
		VIA RECORDER	6400 / 32000 <sup>17</sup> (with WJ-ND400 series) 3200 / 16000 <sup>17</sup> (with WJ-ND300 series) 1600 / 8000 <sup>17</sup> (with WJ-NV200 series)	6400 (with WJ-ND400 series) 3200 (with WJ-ND300 series) 1600 (with WJ-NV200 series)	
		VIA ENCODER	256 / 1280 <sup>17</sup>	256	
	RECORDER		100 / 500 <sup>17</sup>	100	
	ENCODER		64 / 320 <sup>17</sup>	64	
	DECODER		10 <sup>18</sup>	No	
	CONTROLLER		1 <sup>15</sup>	No	
CAMERA CONTROL			Yes (PTZ, Preset, Auto Mode, Click Centering, Wheel Zoom, etc.)	Yes (PTZ, Preset, Auto Mode, Click Centering, Wheel Zoom, etc.)	Yes (PTZ, Preset, Auto Pan, etc.)
RECORDER CONTROL			Yes (Playback, REC, etc.)	Yes (Playback, REC, etc.)	Yes (Playback, REC, etc.)
MULTI-SCREEN PATTERN			1 / 4 / 9 / 16 / 64 <sup>16</sup>	1 / 4 / 9 / 16	1 / 4 / 7 / 9 / 10 / 13 / 16
DISPLAY PERFORMANCE			30ips x 16screens @ MPEG4 2Mbps / H.264 1.5Mbps	30ips x 16screens @ MPEG4 2Mbps / H.264 1.5Mbps	30ips x 16screens @ MPEG4 2Mbps / H.264 1.5Mbps
AVMD DISPLAY (FRAME AND TRACKING LINE)			Yes	Yes	Yes
MULTIPLE MONITORS SUPPORTED			Yes, up to 6 monitors: Operation / 4 X Live / Map <sup>15</sup>	No	2
MAP FUNCTION			Yes <sup>15</sup>	No	Yes
AUDIO <sup>14</sup>			Yes (Live: 2-way, Playback: 1-way)	Yes (Live: 2-way, Playback: 1-way)	Yes (Live: 2-way, Playback: 1-way)
SUPPORTED ALARM			Panasonic Alarm Protocol	Panasonic Alarm Protocol	Panasonic Alarm Protocol
EVENT SEARCH (T&D, EVENT TYPE, ETC.)			Yes	Yes	Yes
VMD SEARCH			Yes (with WJ-ND400, WJ-HD716/616, WJ-NV200)	Yes (with WJ-ND400, WJ-HD716/616, WJ-NV200)	Yes (with WJ-ND400, WJ-HD716/616, WJ-NV200)
IMAGE DOWNLOAD			Yes	Yes	Yes
RTP OVER HTTP (FROM RECORDERS)			Yes	Yes	Yes
RTP OVER HTTP (FROM IP CAMERAS <sup>14</sup> )			Yes	Yes	Yes
CAMERA SDHC/SD CARD RECORDING SUPPORT			No	No	No
FACE MATCHING/FACE SEARCH			Yes <sup>20</sup>	No	No
MAX. NUMBER OF ASF900 TO REGISTER			10	No	No
FILE CONVERSION (RECORDED DATA FILE)			Yes	Yes	Yes

### NEW NETWORK CAMERA MODEL NUMBER FORMAT



<sup>14</sup>WDR (Wide Dynamic Range)

<sup>15</sup>See the supported mobile phones on the Panasonic website

<sup>16</sup>Using specified injector

<sup>17</sup>Heater optional

<sup>18</sup>ABS (Adaptive Black Stretch)

<sup>19</sup>Regarding BB cameras, only specific models and video formats are supported. Contact Panasonic for more details.

<sup>20</sup>Only specific AXIS cameras and encoders are supported. Contact Panasonic for more details.

<sup>21</sup>Connected on Onvif protocol

<sup>22</sup>WJ-NV200 / WJ-NV200V: Version 1.3 or later; WJ-ND400: Version 4.0 or later

<sup>23</sup>This value is for transmission between the center adaptor and the camera adaptor.

<sup>24</sup>PoE function is available for Panasonic IP cameras only.

<sup>25</sup>Except model WV-NM100

<sup>26</sup>Specific models only. Camera control is not supported. Supported video format is limited.

<sup>27</sup>Only Panasonic i-PRO Series is supported

<sup>28</sup>When WV-ASE201 is installed

<sup>29</sup>When WV-ASE202 is installed

<sup>30</sup>When WV-ASE203 is installed

<sup>31</sup>When WV-ASE204 is installed

<sup>32</sup>Only NTSC

<sup>33</sup>When WV-ASE231 is installed

<sup>34</sup>IP device means i-PRO Camera/Encoder/Decoder

## MONITORS

MODEL	TYPE	INFO	IMAGE	DESCRIPTION	COMPATIBLE WITH
PLCD9C	Monitors	LCD Monitors		9" LCD monitor, 800 x 600	—
PLCD9C/2	Monitors	LCD Monitors		2-9" LCD monitor, 800 x 600 with rack mount	—
PLCD15V	Monitors	LCD Monitors		15" LCD monitor, 1024 x 768, 4:3 aspect ratio, two built-in speakers, 2x BNC input, S-Video in/output, RGB input	—
PLCD19P	Monitors	LCD Monitors		19" LCD, 1280 x 1024, 5:4 aspect ratio, two built-in speakers, 2x BNC input, S-Video in/output, RGB input, DVI input, HDMI input	—
PLCD24HDA	Monitors	LCD Monitors		24" Full HD LCD, 1920 x 1080, 16:9 aspect ratio, two built-in speakers, 2x BNC input, S-Video in/output, RGB input, DVI input, HDMI input	—
PLCD27HDA	Monitors	LCD Monitors		27" Full HD LED, 1920 x 1080, 16:9 Aspect Ratio, two built-in speakers, 2x BNC input, S-Video in/output, DVI input, HDMI input	—
PLCD42HDA	Monitors	LCD Monitors		42" Full HD LED, 1920 x 1080, 16:9 aspect ratio, two built-in speakers, 2x BNC input, S-Video in/output, DVI input, HDMI input, pedestal stand	—
PRMK08	Monitors	Accessories	Image Not Available	Rack mount kit for PLCD15V, PLCD20P monitors	PLCD15V PLCD19P

## WHY PANASONIC?

From the company that brought you the first security camera in 1957 and invented over a dozen industry standards, Panasonic provides industry-leading solutions to capture, record, manage and analyze surveillance video. Panasonic provides a comprehensive lineup of video surveillance products and solutions that offer the industry's highest picture quality, mission-critical reliability and the industry's lowest total cost of ownership. When it counts, you can count on Panasonic video surveillance products and systems to deliver.

## CUSTOMER-FOCUSED SERVICE AND SUPPORT

Panasonic has a long-standing reputation for offering the highest-quality video surveillance products that are backed up with outstanding technical support and service programs. When you purchase a Panasonic video surveillance product, you not only receive a product designed to deliver long-lasting performance, but Panasonic will stand behind your purchase with a toll-free technical support hotline and a comprehensive 3-year\* warranty with Advance Exchange, as well as extended warranty options.

## TOLL-FREE TECHNICAL SUPPORT

Panasonic's toll-free technical support hotline is staffed by a team of dedicated professionals, who are thoroughly trained to troubleshoot and diagnose technical issues related to your Panasonic surveillance equipment. Customers can take advantage of Panasonic's toll-free, 24/7 technical support with hold times less than 1 minute by calling 1.800.528.6747.

## COMPREHENSIVE 3-YEAR\* WARRANTY WITH ADVANCE EXCHANGE

Panasonic video surveillance products are backed by a 3-year\* Advance Exchange Warranty. In the event that a Panasonic surveillance product has a defect in material or workmanship, Panasonic's National Repair Center will repair or exchange the nonfunctioning unit with a new or functioning refurbished product free of charge. Advance Exchange provides next business day replacement of a defective product or system component, which ensures that uptime is maximized and your security systems remain in working condition.

## EXTENDED WARRANTY PROGRAM

Panasonic's service and support does not have to end when our standard warranty expires. We offer 1- or 2-year extended warranty options that provide the same outstanding level of coverage as our standard warranty including Advance Exchange. Panasonic's extended warranty delivers peace of mind by providing seamless coverage for up to 5 years on your video surveillance investment.

\*3-year standard warranty on select models



## YOUR FULL-SERVICE PARTNER IN SURVEILLANCE

Transforming surveillance system solutions from concept to completion requires the utmost attention to detail throughout every phase of the process. You can trust Panasonic to be your single source provider for all your facility's needs, from system design to installation to post-implementation support. Offering seamless integration, superior cost-efficiency and increased ROI, we will configure your surveillance system to best fit your requirements and budget, while offering a fully integrated solution with the best third-party partners in the business. Plus, Panasonic's product warranty and service network ensure your system will continually perform to its highest expectations for years to follow.



## PANASONIC SECURITY SERVICES

### Design and Build

- Needs assessment
- Hardware and software
- System design
- Customer training
- Third-party integration

### Installation Support with Trusted Partners

- On-site / remote technical support

## SYSTEM IMPLEMENTATION WITH SI PARTNERS

### Post-Implementation Support

- Service / warranty
- Extended warranties are available

### CHECK OUT OUR YOUTUBE CHANNEL

<https://www.youtube.com/user/panasonicsecurity>

### FOR TECHNICAL SUPPORT

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[psditech@us.panasonic.com](mailto:psditech@us.panasonic.com)

### FOR SERVICE SUPPORT

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