

Panasonic



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

IP CAMERAS

		OUTDOOR PTZ				INDOOR PTZ				OUTDOOR VANDAL DOME
		HD 1080P	HD 720P	HD 720P	HD 720P	HD 1080P	HD 720P	HD 720P	HD 720P	4K Engine
		 SmartHD ONVIF S	 NEW Available June 2015 SmartHD ONVIF S	 SmartHD ONVIF S	 SmartHD ONVIF S	 SmartHD ONVIF S	 NEW Available June 2015 SmartHD ONVIF S	 SmartHD ONVIF S	 SmartHD ONVIF S	 NEW Available May 2015 SmartHD ONVIF S G
MODEL		WV-SW598	WV-SW397A	WV-SW396A	WV-SW395A	WV-SC588	WV-SC387	WV-SC385	WV-SC384	WV-SFV781L
MAX IMAGE RESOLUTION		2.0MP	1.3MP	1.3MP	1.3MP	2.0MP	1.3MP	1.3MP	1.3MP	4K
CAMERA TYPE		Outdoor PTZ (Continuous 360°)	Outdoor PTZ (Continuous 360°)	Outdoor PTZ (Continuous 360°)	Outdoor PTZ (360° with auto flip)	Indoor PTZ (Continuous 360°)	Indoor PTZ (Continuous 360°)	Indoor PTZ (360° with auto flip)	Indoor PTZ (360° with auto flip)	Outdoor Vandal Dome
SUPER DYNAMIC		Mega Super Dynamic	Mega Super Dynamic	Mega Super Dynamic	Mega Super Dynamic	Mega Super Dynamic	Mega Super Dynamic	Mega Super Dynamic	WDR ¹ (8x)	WDR ¹
IMAGING DEVICE		1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/4" 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	1/1.7" MOS Sensor Progressive Scan
VIDEO COMPRESSION		H.264 JPEG	H.264 JPEG	H.264 MPEG-4 JPEG	H.264 MPEG-4 JPEG	H.264 JPEG	H.264 JPEG	H.264 MPEG-4 JPEG	H.264 MPEG-4 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	Yes	No	Yes
AUTO BACK FOCUS		Auto Focus	Auto Focus	Auto Focus	Auto Focus	Auto Focus	Auto Focus	Auto Focus	Auto Focus	Yes (Lens ABF)
VIQS		Yes	Yes	No	No	Yes	Yes	No	No	Yes
MINIMUM ILLUMINATION		Color	0.5 lux	0.5 lux	0.5 lux	0.5 lux	0.5 lux	0.5 lux	0.5 lux	0.3 lux
		B/W	0.06 lux	0.06 lux	0.06 lux	0.06 lux	0.06 lux	0.06 lux	0.06 lux	0.5 lux
FPS JPEG		30fps (1920 x 1080) 30fps (1280 x 960)	30fps (1280 x 960)	30fps (1280 x 960)	30fps (1280 x 960)	30fps (1920 x 1080) 30fps (1280 x 960)	30fps (1280 x 960)	30fps (1280 x 960)	30fps (1280 x 960)	30fps (4K)
FPS MPEG-4		—	—	30fps (640 x 480)	30fps (640 x 480)	—	—	30fps (640 x 480)	30fps (640 x 480)	—
FPS H.264		30fps (1920 x 1080) 30fps (1280 x 960)	30fps (1280 x 960)	30fps (1280 x 960)	30fps (1280 x 960)	30fps (1920 x 1080) 30fps (1280 x 960)	30fps (1280 x 960)	30fps (1280 x 960)	30fps (1280 x 960)	30fps (4K)
AUDIO CAPABILITY		2-way	2-way	2-way	2-way	2-way	2-way	2-way	2-way	2-way
SD MEMORY CARD SLOT		Yes (SDXC)	Yes (SDXC)	Yes (SDHC)	Yes (SDHC)	Yes (SDXC)	Yes (SDXC)	Yes (SDHC)	Yes (SDHC)	Yes (SDXC)
SD CARD RECORDING		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)	30fps (H.264) 1fps (JPEG)	TBD
LENS TYPE		4.3mm - 129mm	4.3mm - 129mm	3.3mm - 119mm	4.7mm - 84.6mm	4.3mm - 129mm	4.3mm - 129mm	4.7mm - 84.6mm	4.7mm - 84.6mm	4.2mm - 25.2mm Motorized
ZOOM		30x (2MP) optical 90x (360P) extra zoom 12x electric	30x (1.3MP) optical 90x (360P) extra zoom 12x electric	36x (1.3MP) optical 72x (VGA) extra zoom 12x electric	18x (1.3MP) optical 36x (VGA) extra optical 12x electric	30x (2MP) optical 90x (360P) extra zoom 12x electric	30x (1.3MP) optical 90x (360P) extra zoom 12x electric	18x (1.3MP) optical 36x (VGA) extra optical 12x electric	18x (1.3MP) optical 36x (VGA) extra optical 8x electric	6x optical
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		24VAC PoE+ (IEEE802.3at) or 60W PoE Injector ³	24VAC PoE+ (IEEE802.3at) or 60W PoE Injector ³	24VAC PoE+ (IEEE802.3at)	24VAC PoE+ (IEEE802.3at)	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	2/1	2/1	2/1	2/1	2/1	2/1	2/1	3
MAX POWER CONSUMPTION		24W (PoE+) 55W (AC)	24W (PoE+) 55W (AC)	24W (PoE+) 43W (AC)	24W (PoE+) 43W (AC)	12W (PoE) 1000mA (DC)	12W (PoE) 1000mA (DC)	12W (PoE) 1000mA (DC)	10W (PoE) 690mA (DC)	12VD: 1050mA PoE: 265mA
OPERATING TEMPERATURE		-58°F - 131°F (24VAC/60W PoE injector ³) -22°F - 131°F (PoE+)	-58°F - 131°F (24VAC/60W PoE injector ³) -22°F - 131°F (PoE+)	-58°F - 131°F (24VAC) -22°F - 131°F (PoE+)	-40°F - 122°F (24VAC) -30°F - 122°F (PoE+)	14°F - 122°F	14°F - 122°F	14°F - 122°F	14°F - 122°F	-49°F - 122°F
MOBILE TERMINAL/ PHONE SUPPORT ²		JPEG PTZ/AUX Control	JPEG PTZ/AUX Control	JPEG PTZ/AUX Control	JPEG PTZ/AUX Control	JPEG PTZ/AUX Control	JPEG PTZ/AUX Control	JPEG PTZ/AUX Control	JPEG PTZ/AUX Control	JPEG
SECURITY		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
OTHER KEY FEATURES		Advanced Auto Tracking, Drag and Zoom, Image Stabilizer, Face Mega SD, IP66, ClearSight™	Advanced Auto Tracking, Drag and Zoom, Image Stabilizer, Face Mega SD, IP66, ClearSight™	Advanced Auto Tracking, Drag and Zoom, Image Stabilizer, Face Mega SD, IP66, ClearSight™	Auto Tracking, Drag and Zoom, Image Stabilizer, Face Mega SD, IP66, ClearSight™	Advanced Auto Tracking, Drag and Zoom, Image Stabilizer, Face Mega SD	Advanced Auto Tracking, Drag and Zoom, Image Stabilizer, Face Mega SD	Auto Tracking, Drag and Zoom, Image Stabilizer, Face Mega SD	Drag and Zoom, Image Stabilizer, Face WDR	IR LED Equipped, IP66, IK10, ClearSight™ Dehumidification Device, High Light Compensation, Fog Compensation
OPTION		Face Detection	Face Detection	Face Detection	Face Detection	Face Detection	Face Detection	Face Detection	Face Detection	—

IP CAMERAS

OUTDOOR VANDAL DOME									
	HD 1080P	HD 1080P	HD 1080P	HD 720P	HD 1080P	HD 720P	HD 720P	4K Engine	HD 1080P
	 SmartHD ONVIF S	 Available June 2015 SmartHD ONVIF S	 SmartHD ONVIF S	 SmartHD ONVIF S	 Available July 2015 SmartHD ONVIF S	 SmartHD ONVIF S	 SmartHD ONVIF S	 SmartHD ONVIF S	 SmartHD ONVIF S
	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
	SUPER DYNAMIC	Mega Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	WDR ¹ 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
	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
	DAY/NIGHT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	REMOVABLE IR (D&N)	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
	AUTO BACK FOCUS	Yes	Yes (Lens ABF)	Yes (Lens ABF)	Yes (Lens ABF)	Yes (Lens ABF)	Yes (Lens ABF)	Focus Assist	Yes (Lens ABF)
	VIQS	Yes	Yes (8 areas)	Yes (8 areas)	Yes (8 areas)	Yes (8 areas)	Yes (8 areas)	Yes (8 areas)	Yes (8 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
	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
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)
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)
AUDIO CAPABILITY		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)
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)
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
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
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
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)
ALARM IN/OUTPUTS		2/1	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)
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
MOBILE TERMINAL/ PHONE SUPPORT ²		No	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
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
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)

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	
		 SmartHD 	 SmartHD 	 SmartHD 	 SmartHD 	 SmartHD 	 SmartHD 	 SmartHD 	 SmartHD 	 SmartHD 	
MODEL	WV-SW158	WV-SW155 WV-SW155M WV-SW155MA	WV-SW152 WV-SW152M	WV-SW115	WV-SFN480	WV-SF438	WV-SF138	WV-SF135	WV-SF132		
MAX IMAGE RESOLUTION		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	
CAMERA TYPE		Outdoor Vandal Dome	Outdoor Vandal Dome	Outdoor Vandal Dome	Outdoor Vandal Dome	Indoor Dome	Indoor Dome	Indoor Dome	Indoor Dome	Indoor Dome	
SUPER DYNAMIC		Mega Super Dynamic	Mega Super Dynamic	Super Dynamic	Mega Super Dynamic	WDR ¹	Mega Super Dynamic	Mega Super Dynamic	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	1/2" 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	
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	
DAY/NIGHT		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
REMOVABLE IR (D&N)		No	No	No	No	No	No	No	No	No	
AUTO BACK FOCUS		No	No	No	No	Yes (Lens ABF)	No	No	No	No	
VIQS		Yes (2 areas)	Yes	Yes	Yes	Yes (8 areas)	Yes (2 areas)	Yes (2 areas)	Yes	Yes	
MINIMUM ILLUMINATION		Color	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/W	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
FPS JPEG		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)	
FPS MPEG-4		—	—	—	—	—	—	—	—	—	
FPS H.264		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)	
AUDIO CAPABILITY		2-way (Built-in MIC)	No	No	No	2-way (Built-in MIC)	2-way	2-Way (Built-in MIC)	No	No	
SD MEMORY CARD SLOT		Yes (SDXC)	Yes (SDHC)	Yes (SDHC)	Yes (SDHC)	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)	No	No	
SD CARD RECORDING		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	
LENS TYPE		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	
ZOOM		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	
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		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)	
ALARM IN/OUTPUTS		No	No	No	No	3	2/1	No	No	No	
MAX POWER CONSUMPTION		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)	
OPERATING TEMPERATURE		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	
MOBILE TERMINAL/ PHONE SUPPORT ²		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 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, 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 ⁵	ABS ⁵	
OPTION		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
	 SmartHD ONVIF S	 SmartHD ONVIF S	 Available July 2015 SmartHD ONVIF S	 SmartHD ONVIF S	 SmartHD ONVIF S	 SmartHD ONVIF S	 SmartHD ONVIF S	 SmartHD ONVIF S	 Available July 2015 SmartHD ONVIF S
MODEL	WV-SFN631L	WV-SFN611L	WV-SFN531	WV-SFN311	WV-SFN310	WV-SF448	WV-SFR631L	WV-SFR611L	WV-SFR531
MAX IMAGE RESOLUTION	3.0MP	1.3MP	3.0MP	1.3MP	1.3MP	3.0MP (JPEG) 2.0MP (H.264)	3.0MP	1.3MP	3.0MP
CAMERA TYPE	Indoor Dome	Indoor Dome	Indoor Dome	Indoor Dome	Indoor Dome	Indoor Vandal Dome with Eyelid	Indoor Vandal Dome	Indoor Vandal Dome	Indoor Vandal Dome
SUPER DYNAMIC	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
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	1/3" 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
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
DAY/NIGHT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REMOVABLE IR (D&N)	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes
AUTO BACK FOCUS	Yes (Lens ABF)	Yes (Lens ABF)	Yes (Lens ABF)	Yes (Lens ABF)	Focus Assist	No	Yes (Lens ABF)	Yes (Lens ABF)	Yes (Lens ABF)
VIQS	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)
MINIMUM ILLUMINATION	Color	0.04 lux	0.01 lux	0.07 lux	0.01 lux	0.01 lux	1.5 lux	0.04 lux	0.01 lux
	B/W	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)
FPS JPEG	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)
FPS MPEG-4	—	—	—	—	—	—	—	—	—
FPS H.264	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)
AUDIO CAPABILITY	2-way	2-way	2-way	2-way	1-way (Built-in MIC)	2-way	2-way	2-way	2-way
SD MEMORY CARD SLOT	Yes (SDXCx2)	Yes (SDXCx2)	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)	Yes (SDXCx2)	Yes (SDXCx2)	Yes (SDXC)
SD CARD RECORDING	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)
LENS TYPE	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
ZOOM	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
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	3	3	3	3	3	3	3	3	3
MAX POWER CONSUMPTION	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
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	-49°F - 122°F	-49°F - 122°F	14°F - 122°F
MOBILE TERMINAL/ PHONE SUPPORT ²	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 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	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
OPTION	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
	 SmartHD ONVIFS	 SmartHD ONVIFS	 NEW Available July 2015 SmartHD ONVIF SGE	 NEW SmartHD ONVIFS	 NEW SmartHD ONVIFS	 NEW SmartHD ONVIFS	 NEW SmartHD ONVIFS	 SmartHD ONVIFS	 SmartHD ONVIFS
MODEL	WV-SFR311	WV-SFR310	WV-SPV781L	WV-SPW631LT	WV-SPW631L	WV-SPW611L	WV-SPW611	WV-SPN631	WV-SPN611
MAX IMAGE RESOLUTION	1.3MP	1.3MP	4K	3.0MP	3.0MP	1.3MP	1.3MP	3.0MP	1.3MP
CAMERA TYPE	Indoor Vandal Dome	Indoor Vandal Dome	Outdoor Fixed	Outdoor Fixed	Outdoor Fixed	Outdoor Fixed	Outdoor Fixed	Indoor Fixed	Indoor Fixed
SUPER DYNAMIC	Enhanced Super Dynamic	Enhanced Super Dynamic	WDR ¹	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic	Enhanced Super Dynamic
IMAGING DEVICE	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
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
DAY/NIGHT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REMOVABLE IR (D&N)	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AUTO BACK FOCUS	Yes (Lens ABF)	Focus Assist	Yes (Lens ABF)	ABF	ABF	ABF	ABF	ABF	ABF
VIQS	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)
MINIMUM ILLUMINATION	Color	0.01 lux	0.01 lux	0.3 lux	0.06 lux	0.04 lux	0.01 lux	0.01 lux	0.01 lux
	B/W	0.003 lux	0.008 lux	0 lux (w/IR LED)	0.0 lux	0.0 lux	0.0 lux	0.003 lux	0.003 lux
FPS JPEG	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)
FPS MPEG-4	—	—	—	—	—	—	—	—	—
FPS H.264	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)
AUDIO CAPABILITY	2-way	—	2-way	2-way	2-way	2-way	2-way	2-way	2-way
SD MEMORY CARD SLOT	Yes (SDXC)	Yes (SDXC)	Yes (SDXC)	Yes (SDXCx2)	Yes (SDXCx2)	Yes (SDXCx2)	Yes (SDXCx2)	Yes (SDXCx2)	Yes (SDXCx2)
SD CARD RECORDING	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)
LENS TYPE	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
ZOOM	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
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	3	3	3	3	3	3	3	3	3
MAX POWER CONSUMPTION	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)
OPERATING TEMPERATURE	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
MOBILE TERMINAL/ PHONE SUPPORT ²	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 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	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
OPTION	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

	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
	 Available April 2015 SmartHD ONVIFS	 SmartHD ONVIFS	 SmartHD ONVIFS	 SmartHD ONVIFS	 SmartHD ONVIFS	 SmartHD ONVIFS	 SmartHD ONVIFS	 SmartHD ONVIFS	 SmartHD ONVIFS	 SmartHD ONVIFS
MODEL	WV-SPN531	WV-SPN311	WV-SPN310	WV-SP105	WV-SP102	WV-SW174W	WV-SW175	WV-SW172	WV-ST165	WV-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
VIQS	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 ²	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 ⁵	ABS ⁵	Face WDR ¹ , IP55	Face WDR ¹ , IP55	Face WDR ¹ , IP55	Face WDR ¹	Face WDR ¹
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) 0.00000 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 ⁵	ABS ⁵	ABS ⁵ , Lens Distortion Compensation	IR LED Light, ABS ⁵ , 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 220mA	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 ⁵ , Lens Distortion Compensation	IR LED Light, ABS ⁵ , Lens Distortion Compensation	Intelligent VMD (Object Left Behind/Removal, Loitering, Direction)	ABS ⁵ , Lens Distortion Compensation	ABS ⁵ , Lens Distortion Compensation	ABS ⁵ , Lens Distortion Compensation	ABS ⁵ , Lens Distortion Compensation

NETWORK VIDEO RECORDERS

			
  			
MODEL	WJ-ND400	WJ-NV300	WJ-NV200
SUPPORTED VIDEO COMPRESSION	H.264 / MPEG-4 / M-JPEG	H.264 / M-JPEG	H.264 / MPEG-4 / M-JPEG
SUPPORTED CAMERA BRANDS	Panasonic (i-PRO & BB) ⁶ Axis (JPEG, MPEG4) ⁷	Panasonic (i-PRO & BB) ⁶ Axis, SONY ⁸	Panasonic (i-PRO & BB) ⁶ Axis, SONY ⁸
MAX. IP CAMERA NUMBER	64 cameras at H.264 2Mbps	32 cameras at H.264 4Mbps	16 cameras at H.264 4Mbps
MAX. HDD	9 drives (internal) 54 drives (with external)	2 drives (internal) 18 drives (with external)	2 drives (internal)
MAX. STORAGE	27TB (internal, 3TB HDD) 162TB (with external, 3TB HDD)	8TB (internal, 4TB HDD) 72TB (with external, 4TB HDD)	6TB (internal, 3TB HDD)
SUPPORTED VIDEO RESOLUTION	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)
MAX. RECORDING RATE (TOTAL)	Approx. 1920fps (30fps at 64 cameras)	Approx. 1920fps (60fps at 32 cameras)	Approx. 480fps (30fps at 16 cameras)
RAID SUPPORT	RAID5/6	RAID1, RAID5/6 (WJ-HDE400)	No
MAX. NETWORK BANDWIDTH	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)
ALARM/CONTROL PORTS	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
RTP OVER HTTP (FROM IP CAMERAS)	No	No	No
RTP OVER HTTP (FOR CLIENT MONITORING)	Yes	Yes	Yes
FUNCTIONS	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
NETWORK I/F	2x 100/1000 Base-T, 1x 10 Base-T	2x 100/1000 Base-T	1x 100/1000 Base-T
POWER	120 VAC, 60Hz	120 VAC, 60Hz	120 VAC, 60Hz
POWER CONSUMPTION	Approx. 170W	Approx. 55W (4TBx2 HDD)	Approx. 45W
RACK MOUNTABLE	Yes (3U)	Optional (2U)	Optional (1U)
REMOTE MONITORING	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)

DIGITAL VIDEO RECORDERS

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

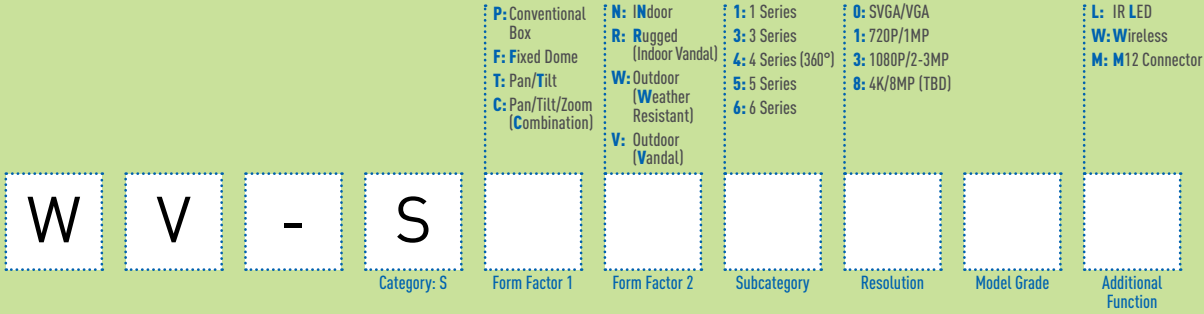
			
MODEL	WJ-GXE500	WJ-GXE100	WJ-GXD400
PRODUCT TYPE	4 CH Video Encoder	1 CH Video Encoder	6 CH HD 1080i Video Decoder
SUPPORTED VIDEO COMPRESSION	H.264 / MPEG-4 / M-JPEG	H.264 / M-JPEG	H.264 / MPEG-4 / M-JPEG
VIDEO INPUTS/OUTPUTS	4 (Input)	1 (Input)	HDMI x1 (Output) NTSC Composite (BNC) x1 (Output)
AUDIO 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) ¹⁰	45Mbps or higher (when using an RG-59/U coaxial cable of less than 3,937 ft. [1.2km])	
TRANSMISSION SPEED (TCP) ¹⁰	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 ¹¹
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)	—

								
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 ¹²		i-PRO series ¹²		i-PRO series ¹² , Panasonic Analog Cameras	
		VIA RECORDER	i-PRO Series ¹² , BB Series ¹³ , Axis ¹³		i-PRO Series ¹² , BB Series ¹³ , Axis ¹³		i-PRO Series ¹² , BB Series ¹³ , Axis ¹³	
	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) ¹⁹	
	CONTROLLER		WV-CU950		No		WV-CU950	
MAX DEVICES	CAMERA	DIRECT	256 / 1280 ¹⁷		256		1023/PMPU (Total number of IP devices ²¹) 2048/PMPU (Total number of IP devices ²¹ and analog cameras)	
		VIA RECORDER	6400 / 32000 ¹⁷ (with WJ-ND400 series) 3200 / 16000 ¹⁷ (with WJ-ND300 series) 1600 / 8000 ¹⁷ (with WJ-NV200 series)		6400 (with WJ-ND400 series) 3200 (with WJ-ND300 series) 1600 (with WJ-NV200 series)			
		VIA ENCODER	256 / 1280 ¹⁷		256			
	RECORDER		100 / 500 ¹⁷		100			
	ENCODER		64 / 320 ¹⁷		64		64 for analog system 16 for hybrid or IP system	
	DECODER		10 ¹⁸		No			
	CONTROLLER		1 ¹⁵		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 ¹⁶		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 ¹⁵		No		2	
MAP FUNCTION			Yes ¹⁵		No		Yes	
AUDIO ¹⁴			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 ¹⁴)			Yes		Yes		Yes	
CAMERA SDHC/SD CARD RECORDING SUPPORT			No		No		No	
FACE MATCHING/FACE SEARCH			Yes ²⁰		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



¹WDR (Wide Dynamic Range)

²See the supported mobile phones on the Panasonic website

³Using specified injector

⁴Heater optional

⁵ABS (Adaptive Black Stretch)

⁶Regarding BB cameras, only specific models and video formats are supported. Contact Panasonic for more details.

⁷Only specific AXIS cameras and encoders are supported. Contact Panasonic for more details.

⁸Connected on Onvif protocol

⁹WJ- NV200 / WJ- NV200V: Version 1.3 or later; WJ-ND400: Version 4.0 or later

¹⁰This value is for transmission between the center adaptor and the camera adaptor.

¹¹PoE function is available for Panasonic IP cameras only.

¹²Except model WV-NM100

¹³Specific models only. Camera control is not supported. Supported video format is limited.

¹⁴Only Panasonic i-PRO Series is supported

¹⁵When WV-ASE201 is installed

¹⁶When WV-ASE202 is installed

¹⁷When WV-ASE203 is installed

¹⁸When WV-ASE204 is installed

¹⁹Only NTSC

²⁰When WV-ASE231 is installed

²¹IP 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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FOR SERVICE SUPPORT

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