Panasonic



2013 Video Surveillance Quick Reference Guide

Product Specifications and Technical Data

SOLUTIONS FOR SECURITY

i-PRO Network Camera Lineup Chart



	HD 1080p	HD 720p	HD 720p	HD 1080p	HD 720p	HD 720p	HD 720p
	NEW	NEW	NEW	NEW			
Model	WV-SW598	WV-SW396A WV-SW396	WV-SW395A WV-SW395	WV-SC588	WV-SC386	WV-SC385	WV-SC384
Camera Type	Outdoor PTZ (Continuous 360°)	Outdoor PTZ (Continuous 360°)	Outdoor PTZ (360° w/ auto flip)	Indoor PTZ (Continuous 360°)	Indoor PTZ (Continuous 360°)	Indoor PTZ (360° w/ auto flip)	Indoor PTZ (360° w/ auto flip)
Resolution	2.0 MP	1.3 MP	1.3 MP	2.0 MP	1.3 MP	1.3 MP	1.3 MP
Super Dynamic	Mega Super Dynamic	Mega Super Dynamic	Mega Super Dynamic	Mega Super Dynamic	Mega Super Dynamic	Mega Super Dynamic	WDR (8x) *1
Imaging Device	1/3" MOS Sensor Progressive Scan	1/4" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/4" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan	1/3" MOS Sensor Progressive Scan
Video Compression	H.264 JPEG	H.264 MPEG-4 JPEG	H.264 MPEG-4 JPEG	H.264 JPEG	H.264 MPEG-4 JPEG	H.264 MPEG-4 JPEG	H.264 MPEG-4 JPEG
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Removable IR (D&N)	Yes	Yes	Yes	Yes	Yes	Yes	No
Auto Back Focus	Auto Focus	Auto Focus	Auto Focus	Auto Focus	Auto Focus	Auto Focus	Auto Focus
VIQS	Yes	No	No	Yes	No	No	No
Minimum Illumination – Color	0.5 lux	0.5 lux	0.5 lux	0.5 lux	0.5 lux	0.5 lux	0.6 lux
Minimum Illumination – B/W	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 (1920 x 1080) 30fps (1280 x 960)	30fps (1280 x 960)	30fps (1280 x 960)	30fps (1280 x 960)
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	30fps (1920 x 1080) 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)
Audio Capability	2-way	2-way	2-way	2-way	2-way	2-way	2-way
SD Memory Card Slot	Yes (SDXC)	Yes (SDHC)	Yes (SDHC)	Yes (SDXC)	Yes (SDHC)	Yes (SDHC)	Yes (SDHC)
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)
Lens Type	4.3mm~129mm	3.3mm~119mm	4.7mm~84.6mm	4.3mm~129mm	3.3mm~119mm	4.7mm~84.6mm	4.7mm~84.6mm
Zoom	30x (2.0MP) optical 90x (360P) EX zoom 12x electric	36x (1.3MP) optical 72x (VGA) EX zoom 12x electric	18x (1.3MP) optical 36x (VGA) EX optical 12x electric	30x (2.0MP) optical 90x (360P) EX zoom 12x electric	36x (1.3MP) optical 72x (VGA) EX zoom 12x electric	18x (1.3MP) optical 36x (VGA) EX optical 12x electric	18x (1.3MP) optical 36x (VGA) EX optical 8x 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
Alarm In-/Outputs	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Power	24VAC PoE+ (IEEE802.3at) or 60W PoE Injector*5	24VAC PoE+ (IEEE802.3at)	24VAC PoE+ (IEEE802.3at)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)
Max Power Consumption	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)
Operating Temperature	-58°F~131°F (24VAC/60W PoE Injector*5) -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
Mobile 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
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
Other Key Features	Advanced Auto Tracking Drag and Zoom Image Stabilizer Face Mega SD IP66 Rain Wash Coating Dome	Advanced Auto Tracking Drag and Zoom Image Stabilizer Face Detection Face Mega SD • IP66 Rain Wash Coating Dome (WV-SW396A)	Auto Tracking Drag and Zoom Image Stabilizer Face Detection Face Mega SD • IP66 Rain Wash Coating Dome (WV-SW395A)	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

*1: WDR (Wide Dynamic Range) *2: See the supported mobile phones on the Panasonic web site *5: Using the specified injector

i-PRO Network Camera Lineup Chart



	HD 1080p	HD 1080p	HD 1080p	HD 720p		HD 1080p	HD 1080p
						 NEW	 NEW
Model	WV-NW502S	WV-SW559	WV-SW558	WV-SW355	WV-SW352	WV-SW458 WV-SW458M	WV-SF438
Camera Type	Outdoor vandal dome (50J)	Outdoor vandal dome (50J)	Outdoor vandal dome (50J)	Outdoor vandal dome (50J)	Outdoor vandal dome (50J)	Outdoor vandal dome (50J)	Indoor dome
Resolution	3.0 MP (JPEG) 2.0 MP (H.264)	3.0 MP (JPEG) 2.0 MP (H.264)	3.0 MP (JPEG) 2.0 MP (H.264)	1.3 MP	800 x 600	3.0 MP (JPEG) 2.0 MP (H.264)	3.0 MP (JPEG) 2.0 MP (H.264)
Super Dynamic	Mega Super Dynamic	Mega Super Dynamic	Mega Super Dynamic	Mega Super Dynamic	Super Dynamic	Mega Super Dynamic	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
Video Compression	H.264 MPEG-4 JPEG	H.264 JPEG	H.264 JPEG	H.264 MPEG-4 JPEG	H.264 MPEG-4 JPEG	H.264 JPEG	H.264 JPEG
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Removable IR (D&N)	Yes	Yes	No	Yes	Yes	No	No
Auto Back Focus	Yes	Yes (Lens ABF)	Yes (Lens ABF)	Yes (Lens ABF)	Yes (Lens ABF)	No	No
VIQS	Yes	Yes (2 areas)	Yes (2 areas)	Yes	Yes	Yes (2 areas)	Yes (2 areas)
Minimum Illumination – Color	3MP: 2.0 lux 1.3MP:1.0 lux	0.5 lux	0.5 lux	0.3 lux	0.2 lux	1.5 lux	1.5 lux
Minimum Illumination – B/W	3MP: 0.16 lux 1.3MP: 0.08 lux	0.06 lux	0.3 lux	0.05 lux	0.04 lux	1.2 lux	1.2 lux
fps JPEG	5fps (2048 x 1536) 30fps (1280 x 960)	15fps (2048 x 1536) 30fps (1920 x 1080)	15fps (2048 x 1536) 30fps (1920 x 1080)	30fps (1280 x 960)	30fps (800 x 600)	15fps (2048 x 1536) 30fps (1920 x 1080)	15fps (2048 x 1536) 30fps (1920 x 1080)
fps MPEG-4	30fps (640 x 480)	–	–	30fps (640 x 480)	30fps (640 x 480)	-	-
fps H.264	15fps (1920 x 1080) 30fps (1280 x 960)	30fps (1920 x 1080) 30fps (1280 x 960)	30fps (1920 x 1080) 30fps (1280 x 960)	30fps (1280 x 960)	30fps (800 x 600)	30fps (1920 x 1080) 30fps (1280 x 960)	30fps (1920 x 1080) 30fps (1280 x 960)
Audio Capability	2-way	2-way	No	2-way	2-way	2-way	2-way
SD Memory Card Slot	Yes (SDHC)	Yes (SDXC)	No	Yes (SDHC)	Yes (SDHC)	Yes (SDXC)	Yes (SDXC)
SD Card Recording	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)	No	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)
Lens Type	2.8x vari-focal 2.8mm~8.0mm	3.6x vari-focal 2.8mm ~ 10.0mm	3.6x vari-focal 2.8mm ~ 10.0mm	3.6x vari-focal 2.8mm ~ 10.0mm	3.6x vari-focal 2.8mm ~ 10.0mm	Fixed focal length: 0.8mm	Fixed focal length: 0.8mm
Zoom	2.8x optical 4x electric	3.6x optical 10.8x (360p) EX optical 4x electric	3.6x optical 10.8x (360p) EX optical 4x electric	3.6x optical 7.2x (VGA) EX optical 4x electric	3.6x optical 7.2x (VGA) EX 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
Alarm In-/Outputs	2/1	2/1	1/1	1/1	1/1	2/1	2/1
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)
Max Power Consumption	7.6W (PoE) 630mA (DC)	8.6W (PoE) 850mA (DC)	8.4W (PoE) 830mA (DC)	11.5W (PoE) 1.1 A (DC)	11.5W (PoE) 1.1 A (DC)	6.0W (PoE) 540 mA (DC)	6.0W (PoE) 540 mA (DC)
Operating Temperature	-22°F~122°F	-40°F ~ 122°F	-40°F ~ 122°F	-22°F ~ 122°F	-22°F ~ 122°F	-40°F~122°F	14°F~122°F
Mobile Phone Support*2	No	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
Other Key Features	Face Mega SD Dehumidification Device IP66	Face Mega SD Dehumidification Device 2 area VIQS IP66	Face Mega SD Dehumidification Device IP66	Face Mega SD Dehumidifcation Device Heater PoE*3 IP66	Dehumidifcation Device Heater PoE*3 IP66 Face Super Dynamic	Panorama • Double Panorama VGA Quad streams • Single PTZ Fisheye • Face Mega SD Dehumidification Device • IP66 M12 connector (WV-SW458M)	Panorama Double Panorama VGA Quad streams Single PTZ • Fisheye Face Mega SD

*2: See the supported mobile phones on the Panasonic web site *3: Heater optional

i-PRO Network Camera Lineup Chart



	HD 1080p	HD 1080p	HD 720p		HD 1080p	HD 1080p	HD 720p
							
Model	WV-SF549	WV-SF548	WV-SF346	WV-SF342	WV-SF539	WV-SF538	WV-SF336
Camera Type	Indoor vandal dome (IK10)	Indoor vandal dome (IK10)	Indoor vandal dome (IK10)	Indoor vandal dome (IK10)	Indoor dome	Indoor dome	Indoor dome
Resolution	3.0 MP (JPEG) 2.0 MP (H.264)	3.0 MP (JPEG) 2.0 MP (H.264)	1.3 MP	800 x 600	3.0 MP (JPEG) 2.0 MP (H.264)	3.0 MP (JPEG) 2.0 MP (H.264)	1.3 MP
Super Dynamic	Mega Super Dynamic	Mega Super Dynamic	WDR (8x)*1	WDR (8x)*1	Mega Super Dynamic	Mega Super Dynamic	WDR (8x)*1
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
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
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Removable IR (D&N)	Yes	No	No	No	Yes	No	No
Auto Back Focus	Yes (Lens ABF)	Yes (Lens ABF)	Yes (Lens ABF)	Yes (Focus Assist)	Yes (Lens ABF)	Yes (Lens ABF)	Yes (Lens ABF)
VIQS	Yes (2 areas)	Yes (2 areas)	Yes	Yes	Yes (2 areas)	Yes (2 areas)	Yes
Minimum Illumination – Color	0.5 lux	0.5 lux	0.3 lux	0.2 lux	0.5 lux	0.5 lux	0.3 lux
Minimum Illumination – B/W	0.06 lux	0.3 lux	0.2 lux	0.13 lux	0.06 lux	0.3 lux	0.2 lux
fps JPEG	15fps (2048 x 1536) 30fps (1920 x 1080)	15fps (2048 x 1536) 30fps (1920 x 1080)	30fps (1280 x 960)	30fps (800 x 600)	15fps (2048 x 1536) 30fps (1920 x 1080)	15fps (2048 x 1536) 30fps (1920 x 1080)	30fps (1280 x 960)
fps MPEG-4	–	–	30fps (640 x 480)	30fps (640 x 480)	–	–	30fps (640 x 480)
fps H.264	30fps (1920 x 1080) 30fps (1280 x 960)	30fps (1920 x 1080) 30fps (1280 x 960)	30fps (1280 x 960)	30fps (800 x 600)	30fps (1920 x 1080) 30fps (1280 x 960)	30fps (1920 x 1080) 30fps (1280 x 960)	30fps (1280 x 960)
Audio Capability	2-way	No	2-way	2-way	2-way	No	2-way
SD Memory Card Slot	Yes (SDXC)	No	Yes (SDHC)	Yes (SDHC)	Yes (SDXC)	No	Yes (SDHC)
SD Card Recording	30fps (H.264) 1fps (JPEG)	No	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)	No	30fps (H.264) 1fps (JPEG)
Lens Type	3.6x vari-focal 2.8mm ~ 10.0mm	3.6x vari-focal 2.8mm ~ 10.0mm	3.6x vari-focal 2.8mm ~ 10.0mm	3.6x vari-focal 2.8mm ~ 10.0mm	3.6x vari-focal 2.8mm ~ 10.0mm	3.6x vari-focal 2.8mm ~ 10.0mm	3.6x vari-focal 2.8mm ~ 10.0mm
Zoom	3.6x optical 10.8x (360p) EX optical 4x electric	3.6x optical 10.8x (360p) EX optical 4x electric	3.6x optical 7.2x (VGA) EX optical 4x electric	3.6x optical 7.2x (VGA) EX optical 4x electric	3.6x optical 10.8x (360p) EX optical 4x electric	3.6x optical 10.8x (360p) EX optical 4x electric	3.6x optical 7.2x (VGA) EX 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
Alarm In-/Outputs	2/1	1/1	1/1	1/1	2/1	1/1	1/1
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)
Max Power Consumption	6.0W (PoE) 570mA (DC)	5.8W (PoE) 550mA (DC)	4.2W (PoE) 320mA (DC)	3.5W (PoE) 320mA (DC)	6.0W (PoE) 570mA (DC)	5.8W (PoE) 550mA (DC)	4.2W (PoE) 320mA (DC)
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
Mobile Phone Support*2	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG
Security	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
Other Key Features	Face Mega SD IK10	Face Mega SD IK10	Face WDR IK10	Face WDR IK10	Face Mega SD	Face Mega SD	Face WDR

*1: WDR (Wide Dynamic Range) *2: See the supported mobile phones on the Panasonic web site

i-PRO Network Camera Lineup Chart



	HD 720p		HD 1080p NEW	HD 720p		HD 1080p NEW	HD 720p	
								
Model	WV-SF335	WV-SF332	WV-SW158	WV-SW155 WV-SW155M	WV-SW152 WV-SW152M	WV-SF138	WV-SF135	WV-SF132
Camera Type	Indoor dome	Indoor dome	Outdoor vandal dome (IK10)	Outdoor vandal dome (IK10)	Outdoor vandal dome (IK10)	Indoor dome	Indoor dome	Indoor dome
Resolution	1.3 MP	800 x 600	3.0 MP (JPEG) 2.0 MP (H.264)	1.3 MP	800 x 600	3.0 MP (JPEG) 2.0 MP (H.264)	1.3 MP	VGA
Super Dynamic	WDR (8x)*1	WDR (8x)*1	Mega Super Dynamic	Mega Super Dynamic	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	1/3" 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 MPEG-4 JPEG	H.264 MPEG-4 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)	No	No	No	No	No	No	No	No
Auto Back Focus	Yes (Focus Assist)	Yes (Focus Assist)	No	No	No	No	No	No
VIQS	Yes	Yes	Yes (2 areas)	Yes	Yes	Yes (2 areas)	Yes	Yes
Minimum Illumination Color	0.3 lux	0.2 lux	1.2 lux	0.8 lux	0.6 lux	1.2 lux	0.8 lux	2.0 lux
Minimum Illumination B/W	0.2 lux	0.13 lux	0.9 lux	0.6 lux	0.4 lux	0.9 lux	0.6 lux	1.3 lux
fps JPEG	30fps (1280 x 960)	30fps (800 x 600)	15fps (2048 x 1536) 30fps (1920 x 1080)	30fps (1280 x 960)	30fps (800 x 600)	15fps (2048 x 1536) 30fps (1920 x 1080)	30fps (1280 x 960)	30fps (640 x 480)
fps MPEG-4	30fps (640 x 480)	30fps (640 x 480)	–	–	–	–	–	–
fps H.264	30fps (1280 x 960)	30fps (800 x 600)	30fps (1920 x 1080) 30fps (1280 x 960)	30fps (1280 x 960)	30fps (800 x 600)	30fps (1920 x 1080) 30fps (1280 x 960)	30fps (1280 x 960)	30fps (640 x 480)
Audio Capability	2-way	2-way	Built in Mic 2-way	No	No	Built in Mic 2-way	No	No
SD Memory Card Slot	Yes (SDHC)	Yes (SDHC)	Yes (SDXC)	Yes (SDHC)	Yes (SDHC)	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)	No	No
Lens Type	3.6x vari-focal 2.8mm ~ 10.0mm	3.6x vari-focal 2.8mm ~ 10.0mm	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	Fixed focal length 1.95mm
Zoom	3.6x optical 7.2x (VGA) EX optical 4x electric	3.6x optical 7.2x (VGA) EX optical 4x electric	3x (360P) Ex zoom	2x (VGA) Ex zoom	2x (VGA) Ex zoom	3x (360p) Ex zoom	2x (VGA) Ex 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
Alarm In-/Outputs	1/1	1/1	No	No	No	No	No	No
Power	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	PoE (IEEE802.3af)	PoE (IEEE802.3af)	PoE (IEEE802.3af)	PoE (IEEE802.3af)	PoE (IEEE802.3af)	PoE (IEEE802.3af)
Max Power Consumption	3.5W (PoE) 280mA (DC)	3.5W (PoE) 280mA (DC)	5.3W (PoE)	2.7W (PoE)	2.7W (PoE)	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	32°F ~ 104°F	32°F ~ 104°F	32°F ~ 104°F
Mobile Phone Support*2	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG
Security	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	ID/PWD Host Authentication HTTPS
Other Key Features	Face WDR	Face WDR	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	ABS*4	ABS*4

*1: WDR (Wide Dynamic Range) *2: See the supported mobile phones on the Panasonic web site *4: ABS (Adaptive Black Stretch)

i-PRO Network Camera Lineup Chart



	HD 720p	HD 720p	HD 720p	HD 1080p	HD 1080p	HD 720p	HD 720p	
								
	SmartHD ONVIF	SmartHD ONVIF	SmartHD ONVIF	SmartHD ONVIF	SmartHD ONVIF	SmartHD ONVIF	SmartHD ONVIF	SmartHD ONVIF
Model	WV-SW316L	WV-SW316	WV-SW314	WV-SP509	WV-SP508	WV-SP306	WV-SP305	WV-SP302
Camera Type	Outdoor Box	Outdoor Box	Outdoor Box	Box	Box	Box	Box	Box
Resolution	1.3 MP	1.3 MP	1.3 MP	3.0 MP (JPEG) 2.0 MP (H.264)	3.0 MP (JPEG) 2.0 MP (H.264)	1.3 MP	1.3 MP	800 x 600
Super Dynamic	Mega Super Dynamic	Mega Super Dynamic	Mega Super Dynamic	Mega Super Dynamic	Mega Super Dynamic	WDR (8x)*1	WDR (8x)*1	WDR (8x)*1
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
Video Compression	H.264 MPEG-4 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 MPEG-4 JPEG
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Removable IR (D&N)	Yes	Yes	No	Yes	No	Yes	No	No
Auto Back Focus	Yes (Lens ABF)	Yes (Lens ABF)	No	Yes	Yes	Yes	Yes (Focus Assist)	Yes (Focus Assist)
VIQS	Yes	Yes	Yes	Yes (2 areas)	Yes (2 areas)	Yes	Yes	Yes
Minimum Illumination Color	0.3 lux	0.3 lux	0.3 lux	0.5 lux	0.5 lux	0.3 lux	0.3 lux	0.2 lux
Minimum Illumination B/W	0.0 lux	0.05 lux	0.2 lux	0.06 lux	0.3 lux	0.05 lux	0.2 lux	0.13 lux
fps JPEG	30fps (1280 x 960)	30fps (1280 x 960)	30fps (1280 x 960)	15fps (2048 x 1536) 30fps (1920 x 1080)	15fps (2048 x 1536) 30fps (1920 x 1080)	30fps (1280 x 960)	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)	30fps (640 x 480)
fps H.264	30fps (1280 x 960)	30fps (1280 x 960)	30fps (1280 x 960)	30fps (1920 x 1080) 30fps (1280 x 960)	30fps (1920 x 1080) 30fps (1280 x 960)	30fps (1280 x 960)	30fps (1280 x 960)	30fps (800 x 600)
Audio Capability	2-way	2-way	No	2-way	No	2-way	2-way	2-way
SD Memory Card Slot	Yes (SDHC)	Yes (SDHC)	No	Yes (SDXC)	No	Yes (SDHC)	Yes (SDHC)	Yes (SDHC)
SD Card Recording	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)	No	30fps (H.264) 1fps (JPEG)	No	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)	30fps (H.264) 1fps (JPEG)
Lens Type	3.2x vari-focal 3.1mm ~ 10.0mm	3.2x vari-focal 3.1mm ~ 10.0mm	3.6x vari-focal 2.8mm ~ 10.0mm	Optional	Optional	Optional	Optional	Optional
Zoom	3.2x optical 6.4x (VGA) EX optical 4x electric	3.2x optical 6.4x (VGA) EX optical 4x electric	3.6x optical 7.2x (VGA) EX optical 4x electric	3x (360p) EX optical 4x electric	3x (360p) EX optical 4x electric	2x (VGA) EX optical 4x electric	2x (VGA) EX optical 4x electric	2x (VGA) EX 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
Alarm In-/Outputs	1/1	1/1	No	2/1	1/1	1/1	1/1	1/1
Power	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)	12VDC PoE (IEEE802.3af)
Max Power Consumption	9.6W (PoE) 850mA (DC)	9.6W (PoE) 850mA (DC)	3.4W (PoE)	6.0W (PoE) 570 mA (DC)	5.8W (PoE) 550 mA (DC)	4.4W (PoE) 350 mA (DC)	3.4W (PoE) 270 mA (DC)	3.4W (PoE) 270 mA (DC)
Operating Temperature	-40°F ~ 122°F	-40°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
Mobile Phone Support*2	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	ID/PWD Host Authentication	ID/PWD Host Authentication
Other Key Features	Face Mega SD Dehumidifcation Device IP66	Face Mega SD Dehumidifcation Device IP66	Face Mega SD IP66	Face Mega SD	Face Mega SD	Face WDR	Face WDR	Face WDR

*1: WDR (Wide Dynamic Range) *2: See the supported mobile phones on the Panasonic web site

i-PRO Network Camera Lineup Chart



	HD 720p		HD 720p	HD 720p		HD 720p	
							
Model	WV-SP105	WV-SP102	WV-SW174W	WV-SW175	WV-SW172	WV-ST165	WV-ST162
Camera Type	Box	Box	Wireless Outdoor Pan-Tilt	Outdoor Pan-Tilt	Outdoor Pan-Tilt	Indoor Pan-Tilt	Indoor Pan-Tilt
Resolution	1.3 MP	VGA	1.3 MP	1.3 MP	800 x 600	1.3 MP	800 x 600
Super Dynamic	No	No	No	No	No	No	No
Imaging Device	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
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Removable IR (D&N)	No	No	No	No	No	No	No
Auto Back Focus	No	No	No	No	No	No	No
VIQS	Yes	Yes	No	No	No	No	No
Minimum Illumination Color	0.8 lux	2.0 lux	0.6 lux	0.6 lux	0.6 lux	0.6 lux	0.6 lux
Minimum Illumination B/W	0.4 lux	1.3 lux	0.5 lux	0.5 lux	0.5 lux	0.5 lux	0.5 lux
fps JPEG	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	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	No	No	2-way	2-way	2-way	2-way	2-way
SD Memory Card Slot	No	No	No	Yes (SDHC)	Yes (SDHC)	Yes (SDHC)	Yes (SDHC)
SD Card Recording	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	Fixed focal length: 3.54mm	Fixed focal length: 2.00mm	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	2x (VGA) EX optical	No	2x (VGA) Ex zoom	2x (VGA) Ex zoom	2x (VGA) Ex zoom	2x (VGA) Ex zoom	2x (VGA) Ex 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
Alarm In-/Outputs	No	No	2/1	2/1	2/1	2/1	2/1
Power	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)
Max Power Consumption	2.8W (PoE) 200 mA (DC)	2.0W (PoE) 140 mA (DC)	510 mA (DC)	6.2W (PoE) 430 mA (DC)	6.2W (PoE) 430 mA (DC)	6.2W (PoE) 430 mA (DC)	6.2W (PoE) 430 mA (DC)
Operating Temperature	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 Phone Support*2	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG
Security	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	ABS*4	ABS*4	Face WDR IP55 IEEE802.11n/g/b	Face WDR IP55	Face WDR IP55	Face WDR	Face WDR

*2: See the supported mobile phones on the Panasonic web site *4: ABS (Adaptive Black Stretch)

PTZ and Fixed Dome Camera Lineup

analog

						
Model	WV-CW594A WV-CW594	WV-CW964	WV-CS584	WV-CW504S/F	WV-CW364S WV-CW334S
Camera Type	Outdoor PTZ	Outdoor PTZ	Indoor PTZ	Outdoor Vandal (50J)	Outdoor Vandal (50J)
Wide Dynamic	SD6	SDIII	SD6	SD5	No
Imaging Device	1/4 inch	1/4 inch	1/4 inch	1/3 inch	1/3 inch
Day/Night	Yes	Yes	Yes	Yes	Yes
IR sensitivity	Yes	Yes	Yes	Yes	Yes (WV-CW364S) No (WV-CW334S)
Focus	Auto focus	Auto focus	Auto focus	Auto Back Focus	N/A
Min. Illumination (Color)	0.5 lux	0.5 lux	0.5 lux	0.1 lux	0.6 lux
Min. Illumination (Color with sens up)	0.02 lux (32x sens up) 0.001 lux (512x sens up)	0.02 lux (32x sens up)	0.02 lux (32x sens up) 0.001 lux (512x sens up)	0.003 lux (32x sens up)	N/A
Min. Illumination (B/W)	0.04 lux	0.04 lux	0.04 lux	0.01 lux	0.05 lux (WV-CW364S) 0.4 lux (WV-CW334S)
Min. Illumination (B/W with sens up)	0.0013 lux (32x sens up) 0.00008 lux (512x sens up)	0.0013 lux (32x sens up)	0.0013 lux (32x sens up) 0.00008 lux (512x sens up)	0.0003 lux (32x sens up)	N/A
Horiz. Resolution	650 TV lines	540 TV lines	650 TV lines	650 TV lines	540 TV lines
Focal length	3.3mm-119mm	3.8mm-114mm	3.3mm-119mm	3.8mm-8.0mm vari-focal	2.8mm-10.0mm vari-focal
Zoom	36x optical/20x digital	30x optical/10x digital	36x optical/20x digital	2.1x optical/2x digital	3.6x optical
Lens Mount	Proprietary	Proprietary	Proprietary	CS-mount	Proprietary
Motion Detection	Yes	Yes	Yes	i-VMD (Intelligent VMD)	No
On Screen Display	Yes	Yes	Yes	Yes	No
Image stabilization	Yes	Yes	Yes	Yes	No
Light Control	ALC	ALC	ALC	ALC/ALC+	ALC
IP66	Yes	Yes	No	Yes	Yes
Vandal Resistance	N/A	N/A	N/A	Yes IEC 60068-2-75: 50J	Yes IEC 60068-2-75: 50J
Power	24VAC	24VAC	24VAC	24VAC/12VDC	24VAC/12VDC
Power Consumption	98W	Camera: 17W Heater: 62W	4.3W	AC 3.4W (w/o Heater) AC 14W (w/ Heater) DC 280mA(w/o Heater)	AC 2.9W (w/o Heater) AC 13.1W (w/ Heater) DC 250mA (w/o Heater)
Operating Temperature	-58° F – 122° F	-40° F – 122° F	14° F – 122° F	14° F – 122° F -22° F – 122° F (w/ Heater)	14° F – 122° F -22° F – 122° F (w/ Heater)
Key Features	Auto tracking with Pan/Tilt Privacy zone masking Rain Wash Coating (WV-CW594A)	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	Adaptive Black Stretch

Fixed Dome and Fixed Box Camera Lineup

analog

		NEW 		NEW 	
Model	WV-CF634 WV-CF624	WV-CF314L	WV-CF354 WV-CF344	WV-CW314L	WV-CW384
Camera Type	Indoor Minidome	Indoor Minidome	Indoor Minidome	Outdoor Fixed Box	Outdoor Fixed Box
Wide Dynamic	SD6	No	No	No	SDIII
Imaging Device	1/3 inch	1/3 inch	1/3 inch	1/3 inch	1/3 inch
Day/Night	Yes	Yes	Yes (Electrical)	Yes	Yes
IR sensitivity	Yes	Yes	No	Yes	Yes
Focus	WV-CF634: Auto Back Focus WV-CF624: N/A	Auto Back Focus	WV-CF354: Auto Back Focus WV-CF344: N/A	Auto Back Focus	Auto Back Focus
Min. Illumination (Color)	0.08 lux	0.08 lux	0.08 lux	0.08 lux	0.65 lux
Min. 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)	0.0025 lux (32x sens up) 0.00016 lux (512x sens up)	0.0025 lux (32x sens up) 0.00016 lux (512x sens up)	0.065 lux (10x sens up)
Min. Illumination (B/W)	0.008 lux	0.00 lux	0.05 lux	0.00 lux	0.09 lux
Min. Illumination (B/W with sens up)	0.00025 lux (32x sens up) 0.000016 lux (512x sens up)	0.0016 lux (32x sens up) 0.00000 lux (512x 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)	0.009 lux (10x sens up)
Horiz. Resolution	650 TV lines	650 TV lines	650 TV lines	650 TV lines	540 TV lines
Focal length	2.8mm-10.0mm vari-focal	2.8mm-10.0mm vari-focal	2.8mm-10mm vari-focal	2.8mm-10.0mm vari-focal	5mm-40mm vari-focal
Zoom	3.6x optical 2x digital	3.6x optical 2x digital	3.6x optical 2x digital	3.6x optical 2x digital	5x optical 2x digital
Lens Mount	Proprietary	Proprietary	Proprietary	Proprietary	CS-mount
Motion Detection	Yes	Yes	Yes	Yes	Yes
On Screen Display	Yes	Yes	Yes	Yes	Yes
Image stabilization	Yes	Yes	Yes	Yes	Yes
Light Control	ALC/ALC+/ELC	ALC/ALC+/ELC	ALC/ALC+/ELC	ALC/ALC+/ELC	ALC
IP66	No	No	No	Yes	Yes
Vandal Resistance	N/A	N/A	N/A	N/A	N/A
Power	24VAC/12VDC	24VAC/12VDC	24VAC/12VDC	24VAC/12VDC	24VAC/12VDC
Power Consumption	AC 2.5W DC 220mA	AC 3.6W DC 410mA	AC 2.1W DC 180mA	AC 5.2W DC 560mA	AC 18W DC 540mA
Operating Temperature	14° F – 122° F	14° F – 122° F	14° F – 122° F	14° F – 122° F	-22° F - 122° F
Key Features	Adaptive Black Stretch Lens Distortion Compensation	IR LED light Adaptive Black Stretch Lens Distortion Compensation	Adaptive Black Stretch Lens Distortion Compensation	IR LED light Adaptive Black Stretch Lens Distortion Compensation	Built-in fan, heater and shield

Fixed Box Camera Lineup

analog

					
Model	WV-CL930 WV-CL934	WV-CP500 WV-CP504	WV-CP620 WV-CP624	WV-CP310 WV-CP314	WV-CP300 WV-CP304
Camera Type	Fixed Box	Fixed Box	Fixed Box	Fixed Box	Fixed Box
Wide Dynamic	No	SD5	SD6	No	No
Imaging Device	1/2 inch	1/3 inch	1/3 inch	1/3 inch	1/3 inch
Day/Night	Yes	Yes	Yes	Yes	Yes (Electrical)
IR sensitivity	Yes	Yes	Yes	Yes	No
Focus	Auto Back Focus	Auto Back Focus	N/A	N/A	N/A
Min. Illumination (Color)	0.09 lux @f1.4	0.1 lux @f1.4	0.08 lux @f1.4	0.08 lux @f1.4	0.08 lux @f1.4
Min. Illumination (Color with sens up)	0.003 lux @f1.4 (32x sens up)	0.003 lux @f1.4 (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)
Min. Illumination (B/W)	0.008 lux @f1.4	0.01 lux @f1.4	0.008 lux @f1.4	0.008 lux @f1.4	0.05 lux @f1.4
Min. Illumination (B/W with sens up)	0.0003 lux @f1.4 (32x sens up)	0.0003 lux @f1.4 (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)
Horiz. Resolution	540 TV lines	650 TV lines	650 TV lines	650 TV lines	650 TV lines
Focal length	Optional	Optional	Optional	Optional	Optional
Zoom	N/A	2x digital	2x digital	2x digital	2x digital
Lens Mount	CS-mount	CS-mount	CS-mount	CS-mount	CS-mount
Motion Detection	Yes	i-VMD (Intelligent VMD)	Yes	Yes	Yes
On Screen Display	Yes	Yes	Yes	Yes	Yes
Image stabilization	Yes	Yes	Yes	Yes	Yes
Light Control	ALC/ALC+/ELC	ALC/ALC+/ELC	ALC/ALC+/ELC	ALC/ALC+/ELC	ALC/ALC+/ELC
IP66	No	No	No	No	No
Vandal Resistance	N/A	N/A	N/A	N/A	N/A
Power	24VAC/12VDC	WV-CP500: 120VAC WV-CP504: 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	WV-CL930: AC 4.6W WV-CL934: AC 4.0W DC 350mA	WV-CP500: AC 3.2W WV-CP504: AC 3.6W DC 310mA	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	14º F - 122º F	14º F – 122º F	14º F – 122º F	14º F – 122º F	14º F – 122º F
Key Features	Ultra high sensitivity Adaptive digital noise reduction	Intelligent VMD (object left behind/removal, loitering, direction)	Adaptive Black Stretch Lens Distortion Compensation	Adaptive Black Stretch Lens Distortion Compensation	Adaptive Black Stretch Lens Distortion Compensation

Management Software Comparison Chart

Functions			WV-ASM200 + WV-ASE201 + WV-ASE202 + WV-ASE203 + WV-ASE204	WV-ASM200 Management Software
				
Main Functions/Description			Live / Playback / Control	Live / Playback / Control
Supported Video Formats			H.264 / MPEG-4 / M-JPEG	H.264 / MPEG-4 / M-JPEG
Supported Video Aspect Ratio			4:3 / 16:9	4:3 / 16:9
Supported Devices	Camera	Direct	i-PRO series[1]	i-PRO series[1]
		Via Recorder	i-PRO series[1], BB series[2], Axis[2]	i-PRO series[1], BB series[2], Axis[2]
	Recorder	NVR	WJ-ND400, WJ-ND300/300A, WJ-ND200, WJ-NV200	WJ-ND400, WJ-ND300/300A, WJ-ND200, WJ-NV200
		DVR	WJ-HD716/616, WJ-HD309A/316A, WJ-RT416 series	WJ-HD716/616, WJ-HD309A/316A, WJ-RT416 series
	Encoder		WJ-GXE500, WJ-NT304, WJ-NT314	WJ-GXE500, WJ-NT304, WJ-NT314
	Controller		WV-CU950	No
Max. Devices	Camera	Direct	256/1280[6]	256
		Via Recorder	6400/32000[6] (with WJ-ND400 series) 3200/16000[6] (with WJ-ND300 series) 1600/8000[6] (with WJ-NV200 series)	6400 (with WJ-ND400 series) 3200 (with WJ-ND300 series) 1600 (with WJ-NV200 series)
		Via Encoder	256/1280[6]	256
	Recorder		100/500[6]	100
	Encoder		64/320[6]	64
	Controller		1[4]	No
	Decoder		WJ-GXD400: 10[7]	No
Camera Control			Yes (PTZ, Preset, Auto mode, Click centering, Wheel zoom)	Yes (PTZ, Preset, Auto mode, Click centering, Wheel zoom)
Recorder Control			Yes (Playback, REC etc.)	Yes (Playback, REC etc.)
Multi-screen Pattern			1 / 4 / 9 / 16 /64[5]	1 / 4 / 9 / 16
Display Performance			30ips x 16 screens @ MPEG4 2Mbps/H.264 1.5Mbps	30ips x 16 screens @ MPEG4 2Mbps/H.264 1.5Mbps
AVMD Display (Frame and Tracking Line)			Yes	Yes
Multiple Monitors Supported			Yes (Up to 6 monitors: Operation / Live / Map)[4]	No
Map Function			Yes[4]	No
Audio[3]			Yes (Live: 2-way, Playback: 1-way)	Yes (Live: 2-way, Playback: 1-way)
Supported Alarm			Panasonic Alarm Protocol	Panasonic Alarm Protocol
Event Search (T&D, Event type etc.)			Yes	Yes
VMD Search			Yes (with WJ-ND400, WJ-HD716/616, WJ-NV200)	Yes (with WJ-ND400, WJ-HD716/616, WJ-NV200)
Image Download			Yes	Yes
RTP over HTTP (from Recorders)			Yes	Yes
RTP over HTTP (from IP Cameras)[3]			No	No
Camera SDHC/SD Card Recording Support			No	No

[1] Except model WV-NM100 [2] Specific models only. Camera control is not supported. Supported video format is limited. [3] Only Panasonic i-PRO series are supported.
[4] When WV-ASE201 is installed. [5] When WV-ASE202 is installed. [6] When WV-ASE203 is installed. [7] When WV-ASE204 is installed.

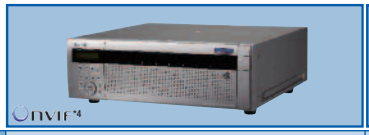
BB-HNP17A
Camera Management Recording Software

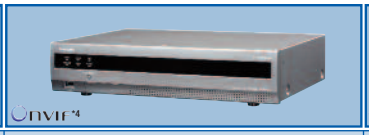
- Images can be recorded for up to 64 cameras
- Record and play H.264, MPEG-4 and JPEG images
- Easy to use graphical user interface (GUI), simplified icons
- Customizable settings and browser screens
- Remote access by browser
- Alarm trigger recording (JPEG only)
- Scheduled preset position recording
- E-mail alert when alarm is detected
- Search images quickly via keyword or date/time
- Supports i-PRO IP cameras

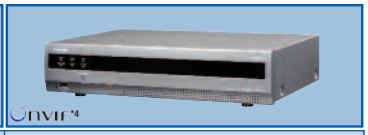


i-PRO Network Video Recorders Lineup Chart

Network Video Recorders







Model	WJ-ND400	WJ-NV200	WJ-NV200V
Supported Video Compression	H.264 / MPEG-4 / M-JPEG	H.264 / MPEG-4 / M-JPEG	H.264 / MPEG-4 / M-JPEG
Supported Camera Brands	Panasonic (i-PRO & BB)*1 AXIS (JPEG, MPEG4)*2	Panasonic (i-PRO & BB)*1 AXIS, SONY*3	Panasonic (i-PRO & BB)*1 AXIS, SONY*3
Max. IP Camera Number	64 cameras at H.264 2Mbps	16 cameras at H.264 4Mbps	16 cameras at H.264 4Mbps
Max. HDD	9 drives (internal) 54 drives (w/ external)	2 drives (internal)	1 drive (internal)
Max. Storage	27TB (internal, 3TB HDD) 162TB (w/ external, 3TB HDD)	6TB (internal, 3TB HDD)	3TB (internal, 3TB HDD)
Supported Video Resolution	3MP (2048 x 1536), 1.3MP (1280 x 960), VGA (640 x 480), QVGA (320 x 240)	1.3MP (1280x960), VGA (640x480), QVGA (320x240)	1.3MP (1280x960), VGA (640x480), QVGA (320x240)
Max. Recording Rate (Total)	Approx. 1,920fps (30 fps at 64 cameras)	Approx. 480fps (30 fps at 16 cameras)	Approx. 480fps (30 fps at 16 cameras)
RAID Support	RAID5/6	No	No
Max. Network Bandwidth	128Mbps (Camera recording) 72Mbps (PC monitoring)	64Mbps (Camera recording) 32Mbps (PC monitoring) 13Mbps (HDMI out monitoring)	64Mbps (Camera recording) 32Mbps (PC monitoring) 13Mbps (HDMI out monitoring)
Alarm/Control Ports	32 terminal alarm inputs/outputs, Control/AUX	9 terminal alarm inputs/outputs	9 terminal alarm inputs/outputs
RTP over HTTP (From IP cameras)	No	No	No
RTP over HTTP (For client monitoring)	Yes	Yes	Yes
Functions	Metadata smart search	HD1080i HDMI Output (Built-in Decoder) Real-time face matching Mouse operation	HD1080i HDMI Output (Built-in Decoder) Real-time face matching Mouse operation
Network I/F	2x 100/1000Base-T, 1x 10 Base-T	1x 100/1000Base-T	1x 100/1000Base-T
Power	120VAC, 60Hz	120VAC, 60Hz	120VAC, 60Hz
Power Consumption	Approx. 170W	Approx. 45W	Approx. 45W
Rack Mountable	Yes (3U)	Optional (1U)	Optional (1U)
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) Android / iPhone	Yes (Microsoft Internet Explorer, WV-ASM100 Series, WV-ASM200 Series, WV-ASM970) Android / iPhone

*1 Regarding BB cameras, only specific models and video formats are supported. Contact Panasonic for BB cameras.
*2 Only specific AXIS cameras and encoders are supported. Contact Panasonic for AXIS cameras.
*3 Connected on Onvif protocol.
*4 WJ-NV200 / WJ-NV200V: Ver 1.3 or later; WJ-ND400: Ver 4.0 or later.

Digital Video Recorders Lineup Chart

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 (w/ external)	4 drives (internal) 31 drives (w/ external)
Max. Storage	12TB (internal, 3TB HDD) 93TB (w/ external, 3TB HDD)	12TB (internal, 3TB HDD) 93TB (w/ external, 3TB HDD)
Recording Resolution	Frame (720x480) Field (720x240)	Frame (720x480) Field (720x240)
Max. Recording Rate (Total)	480ips at Field (720x240) 240ips at Frame (720x480)	240ips at Field (720x240) 120ips at Frame (720x480)
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/outputs, 1 alarm reset input, 1 alarm suspend input	16 terminal alarm inputs/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 HD1080i HDMI Outputs, mouse operation, timeline bar search, SD5 Link	Dual HD1080i 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)

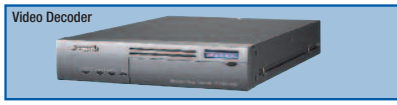
i-PRO Encoders/Decoders and Converter Lineup Charts

Encoders



Model	WJ-GXE500	WJ-GXE100
Product Type	4CH Video Encoder	1CH Video Encoder
Supported Video Compression	H.264 / MPEG-4 / M-JPEG	H.264 / M-JPEG
Video Inputs/Outputs	4 (Input)	1 (Input)
Audio Inputs/Outputs	1 (Input)	–
Supported Video Resolution	D1 (720x480), VGA (640x480), QVGA (320x240)	D1 (720x480), VGA (640x480), QVGA (320x240)
Display Pattern	–	–
Max. fps	30fps/ch at H.264 in all resolutions	30fps/ch at H.264 in all resolutions
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
SD Memory Card Slot	Yes (SDHC)	–
SD Card Recording	1fps (JPEG)	–
Functions	Face Detection (CH1 only), Dual Stream, RTP over HTTP	Dual Stream, RTP over HTTP
Power	PoE, 12VDC	PoE, 12VDC
Power Consumption	6W	12VDC: 200mA PoE 48V: 75mA
Rack Mountable	Optional (3 units for 1U) (WV-Q204/2S)	–

Decoder



Model	WJ-GXD400
Product Type	6CH HD1080i Video Decoder
Supported Video Compression	H.264 / MPEG-4 / M-JPEG
Video Inputs/Outputs	HDMI x1 (Output) NTSC Composite (BNC) x1 (Output)
Audio Inputs/Outputs	HDMI x1 (Output) RCA x1 (Output)
Supported Video Resolution	1.3MP (1280x960), VGA (640x480), QVGA (320x240)
Display Pattern	Single (1x 1280x960), 3 split-screen (1x 1280x960, 2x VGA), 6 split-screen (6x VGA)
Max. fps	30fps/ch at H.264 in VGA
Coax PTZ Control	–
RS485 Camera Interface	–
Network I/F	1x 100/1000 Base-T
SD Memory Card Slot	–
SD Card Recording	–
Functions	HD1080i HDMI Output
Power	12VDC
Power Consumption	12VDC, 1.4A
Rack Mountable	Optional (2 units for 1U) ((WV-Q204/1S, WV-Q204/2S)

Converter



Model	BY-HPE11KTA (including 1x center adapter and 1x camera adapter)	
Product Type	Coaxial-LAN Converter with PoE Function	
	Center Adapter	Camera Adapter
Transmission Speed (UDP) *1	45Mbps or higher (when using an RG-59/U coaxial cable of less than 3,937 ft. [1.2km])	
Transmission Speed (TCP) *1	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 *2
Functions	PoE capability for IP cameras Plug & Play (No Setup Required)	
Operating Temperature	32ºF to 122ºF (Center adapter)	14ºF to 122ºF (Camera adapter)
Power	100-240VAC	Power supplied through the coax cable from the center adapter
Power Consumption	Max. 28W (including the power consumption of the camera adapter)	Max. 15.4W (PoE capability)
Rack Mountable	Optional (4 center adapters for 1U) (BY-HCA10A)	–

*1 This value is for transmission between the center adapter and the camera adapter.
*2 PoE function is available for Panasonic IP cameras only.

Customer Support

To place, modify or check an order, or make shipping changes.

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Toll-Free Fax: 877.665.5647

Technical Support

For technical support on installation, programming and configuration.

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