

## IP Camera Solution

- Panasonic WV-SC384 network IP PTZ camera
- Integrated transceiver with weatherproof D2 enclosure
- Outdoor rated transceiver base station
- One 5dBi Omni directional antenna
- One 11dBi directional Yagi antenna

Our 900MHz Outdoor Wireless Network PTZ Kit is complete with everything you need to view video, and control a PTZ camera from 1 to 3 miles. It's ideal for applications where obstructions lie between the camera and the receiver. Range is approximately 1 to 3 miles; or 25 miles with a clear line of sight.

**Save from the costly expense, and man time to run cables and dig trenching with our Non line of sight, wireless network camera kit that enables remote network cameras. Our 900MHz kit offers the ideal combination of price, penetrating range, data rate, security, interference avoidance, Quality of Service, and ease-of-use.**

### Wireless Features

- Range NLOS - Through foliage: 11dBi antenna: Up to 1 mile and 3 average trees
- Range LOS - Clear Fresnel zone 11dBi antennae: Up to 25 miles with clear Line of Sight
- RF transmission rate of 1.5 Mbs
- Security: 128-bit Encryption [dedicated keys per radio pair]
- Throughput of 935 Kbs
- Automatic frequency select - radio channel automatically selected and adaptively optimise.
- Status LEDs: Power, RF Link, Ethernet Link, Traffic, RF RX, RF TX, 4/Channel and 6/Link Quality.
- Enclosure Type: NEMA 4x
- Temperature range: -40°F to 158°F
- Power over Ethernet: Proprietary 6/12 volt system - Includes injectors/power supplies



### The Enclosure

- Will not rust or corrode
- Heavy-duty lower lens
- IP and analog camera compatible
- Impact Resistant Poly carbonate Thermal Plastic
- Thermostatically controlled Heater Blower System
- IP66 rated against dust, water, and salt water air
- IP68 (waterproof) connection ports
- On board Component mounting space for: routers, cell networks, hard drives, UPS, WiMAX, mesh hardware, etc.

**Includes Heater/Blower for keeping the PTZ camera at optimal functioning temperatures.**





## Panasonic WV-SC384 Network IP Pan Tilt Zoom Camera

### Specifications

Image Sensor	1/3 type MOS Sensor
Effective Pixels	Approx. 1.3 megapixel
Scanning Mode	Progressive scan
Scanning Area	4.8 mm (H) x 3.6 mm (V) (3/16" (H) x 5/32" (V))
Minimum Illumination	Color: 0.6 lx (F1.6, Auto slow shutter: Off (1/30 s), AGC: High, WDR Off) 0.038 lx (F1.6, Auto slow shutter: max. 16/30 s, AGC: High, WDR Off) BW: 0.5 lx (F1.6, Auto slow shutter: Off (1/30 s), AGC: High) 0.031 lx (F1.6, Auto slow shutter: max. 16/30 s, AGC: High) ATW1 / ATW2 / AWC
White Balance	Indoor scene (50 Hz / 60 Hz) / Outdoor scene / Fix shutter
Light Control Mode	1/30, 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000
Shutter Speed	ON / OFF
Wide Dynamic Range	ON / OFF
Face Wide Dynamic Range	ON / OFF
Adaptive Black Stretch	ON / OFF
AGC	ON (LOW, MID, HIGH) / OFF
Auto Slow Shutter	OFF (1/30 s), max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s
Simple Black & White Mode	OFF / AUTO
Digital Noise Reduction	High / Low
Video Motion Detection	ON / OFF, 4 areas available
Privacy Zone	ON / OFF (up to 2 zones available)
Up Side Down	Ceiling mount only
Image Stabilizer	ON / OFF
Camera Title (OSD)	ON / OFF
Focal Length	4.7 mm ~ 84.6 mm
Zoom Ratio	18x / 36x with extra optical zoom (at VGA resolution)
Digital (Electronic) Zoom	8x (Max. 288x combined with extra optical zoom under VGA)
Angular Field of View	H: 3.2° (Tele) ~ 55.2° (Wide), V: 2.4° (Tele) ~ 42.1° (Wide)
Maximum Aperture Ratio	1 : 1.6 (Wide) ~ 2.8 (Tele)
Focus Range	1.5 m ~ infinity
Aperture Range	F1.6 ~ 22, Close
Panning Range	0° ~ 350°
Panning Speed	Manual: approx. 0.5°/s ~ 100°/s, Preset: up to approx. 300°/s
Tilting Range	-30° ~ 90° (upward-level-downward)
Tilting Speed	Tilting angle limit: 10° / 5° / 3° / 0° / -3° / -5° / -10° / -15° / -20° / -25° / -30°
Proportional Pan/Tilt Control	Manual: approx. 0.5°/s ~ 100°/s, Preset: up to approx. 100°/s
Number of Preset Positions	Yes
Auto Mode	64
Image Hold	Auto pan / Preset sequence / 360 map-shot / Preset map-shot
PTZ Position Display	ON / OFF
Self Return	ON / OFF
Pan/tilt ip *1	10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 min
Map Shot	ON / OFF
Camera Control	360 map shot / preset map shot
Display Mode	Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode
Camera Title	Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only). 20 characters camera title available.
Clock Display	Up to 20 characters (alphanumeric characters, marks), Character size: Small
Alarm Control	Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manual/AUTO)
One Shot Capture	Reset
Audio	A still picture will be displayed on a newly opened window.
SD Memory Data Download	Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High, Audio Output: ON / OFF Volume adjustment: Low / Middle / High
GUI/Setup Menu Language	Still or motion images recorded in the SDHC/SD memory card can be downloaded.
System Log	English, French (Installation required for French)
Supported OS	Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when the recording format is set to JPEG.) error logs
Supported Browser	Microsoft® Windows® 7 Professional 64 bit/32 bit, Vista Business SP1 32bit XP Professional SP3
Network IF	Windows® Internet Explorer® 6.0, 7.0, 8.0 (32bit)
Image Resolution	10Base-T / 100Base-TX, RJ-45 connector
Transmission Mode	[4:3] H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps
Frame Rate	MPEG-4: VGA (640 x 480) / QVGA (320 x 240), up to 30 fps
Bit Rate/Client	JPEG (MJPEG): 1,280 x 960 / 640 x 480 / 320 x 240, up to 30 fps
H.264/MPEG-4	[16:9] H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps
Image Quality	JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps
Refresh Interval	Constant bitrate / Framerate priority / Best effort
Transmission Type	1 / 3 / 5 / 7.5 / 10 / 15 / 20 / 30 fps
JPEG (MJPEG)	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8,192* kbps / Unlimited * H.264 mode Only
Image Quality	LOW / NORMAL / FINE
Transmission Type	0 SUPER FINE / 1 FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9)
Transmission Interval	PULL / PUSH
Audio Compression	0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264/MPEG-4 images.)
Audio Mode	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps
Authentication for Audio	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
Total Bit Rate	Level 1 only / Level 2 higher / All users
	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited

Supported Protocol	IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6 IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP
FTP Client	Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDHC/SD memory card is available.)
Multi-Screen	Up to 16 camera images can be displayed simultaneously on a multi-screen. (Including the camera itself)
Maximum Concurrent Access Number	Up to 14 (Depends on network conditions)
SDHC/SD Memory Card(Option)	H.264 recording: Manual REC / Alarm REC (PRE/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network failure Compatible SD (SDHC) card: Panasonic 256 MB, 512MB, 1GB, 2 GB, 4 GB*, 8 GB*, 16GB*, 32GB* model *SDHC card
Face Detection	ON / OFF (with XML notification)
Cellular Phone Compatibility	JPEG image, panning / tilting / zoom control, AUX control (by access level)
Alarm Source	3x Terminal inputs, VMD, Command alarm
Alarm Actions	SD memory recording, E-mail notification, Indication on browser, Camera positioning, Preset position 1 ~ 64, FTP image transfer, Terminal output, Panasonic protocol output, Auto track
Alarm Log	With SD memory card: 5,000 logs, Without SD memory card: 1,000 logs
Schedule	Alarm/VMD/Access permission, Preset position call, Position refresh, H.264 recording
Monitor Output	1.0 V [p-p] / 75 Ω, NTSC composite, ø3.5 mm mini jack
Microphone/Line Input	ø3.5 mm monaural mini jack, Input impedance: approx. 2 kΩ
Audio Output	ø3.5 mm stereo mini jack (monaural output) Line level
External I/O Terminals	Output impedance: Approx. 600 Ω, Line level
Safety/EMC Standard	ALARM IN 1, ALARM IN 2 / ALARM OUT, ALARM IN 3 / AUX OUT (x1 each)
Power Source/Consumption	UL (UL60065), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60065), DOC (ICES003 ClassA)
Ambient Operating Temperature/Humidity	12 V DC, PoE (IEEE802.3af compliant)
Dimensions	12 V DC : 690 mA, PoE 48 V : 10 W / 190 mA (Class 0 device)
Mass (approx.)	-10 °C ~ +50 °C (14 °F ~ 122 °F) 90% or less (whitout condensation)
	ø115 mm x 155 mm (H) (ø4-17/32" x 6-3/32" (H)) (excluding the 12 V DC power cord plug)
	900 g (1.99 lbs.)



Also available with Canon camera

**\*\*Custom configurations are available**