PANASONIC WV-SW397/WV-SW397A Super Dynamic PTZ Dome NETWORK CAMERA

TECHNICAL SPECIFICATIONS
DIVISION 28 – ELECTRONIC SAFETY AND SECURITY
28 20 00 ELECTRONIC SURVEILLANCE
28 23 00 VIDEO SURVEILLANCE
28 23 29 VIDEO SURVEILLANCE REMOTE DEVICES AND SENSORS

This specification is intended for use by the design/construction professional and any user of Panasonic Security products to assist in developing project specifications for security and video surveillance systems.

Specifier Notes: This guide specification incorporates CSI MasterFormat™ 2014 Edition Numbers and Titles.

Notes in Italics, such as this one, are explanatory and intended to guide the design professional/specifier and user in the proper selection and use of materials. This specification should be modified where necessary to accommodate individual project conditions.

PART 1 GENERAL

1.01   SUMMARY
1.02   WARRANTY

    A. Provide manufacturer's standard warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Panasonic System Networks Company

B. Provide Video Surveillance Camera from single source manufacturer

2.2 PANASONIC WV-SW397/WV-SW397A Super Dynamic PTZ DOME NETWORK CAMERA

A. GENERAL CHARACTERISTICS

1. The PTZ Dome Network Camera shall produce a resolution of 1,280 x 720 pixels at up to 30 fps.

2. The PTZ Dome Network Camera shall offer 45x extra optical zoom at 1,280 x 720 resolution, 90x extra optical zoom at 640 x 360 resolution.

3. The PTZ Dome Network Camera shall offer 360-degrees endless Panning.

4. *The PTZ Dome Network Camera shall have a rain wash coating dome cover.[WV-SW397A]*

5. The PTZ Dome Network Camera shall utilize an approximate 1/3-inch type high sensitivity MOS image sensor.

6. The PTZ Dome Network Camera shall offer Super Dynamic Range (SD).

7. The PTZ Dome Network Camera shall produce a color image with a minimum illumination of 0.019 lux and a monochrome image with 0.003 lux at F1.6, shutter speed of 16/30s and High gain mode.

8. The PTZ Dome Network Camera shall generate multiple simultaneous video streams of JPEG and H.264 high profile.

9. The PTZ Dome Network Camera shall utilize 3D-Digital Noise Reduction (3D-DNR) to remove visual noises in low light conditions.

10. The PTZ Dome Network Camera shall be rated to IP66 and NEMA 4X standard against water and dust ingress.

11. The PTZ Dome Network Camera shall be rated to IEC 62262 IK10 vandal resistance.

12. The PTZ Dome Network Camera shall offer Video Motion Detection (VMD) with four (4) programmable detection areas, 15 steps sensitivity level and 10 steps detection size.

13. The PTZ Dome Network Camera shall provide Variable Image Quality on Specified area (VIQS) which sets different image qualities to up to two (2) areas in the full view to reduce bandwidth and storage capacity requirements.

14. The PTZ Dome Network Camera shall provide up to thirty two (32) areas of electronic privacy masking.

15. The PTZ Dome Network Camera shall offer the prioritized stream control which transmits a video stream to the specified client PC or recorder preferentially.

16. The PTZ Dome Network Camera shall have a SD memory card slot that supports SD, SDHC and SDXC memory card for local storage.

17. The PTZ Dome Network Camera shall offer full-duplex bi-directional audio communication between the camera and monitoring site.

18. The PTZ Dome Network Camera shall conform to the ONVIF standard.

B. CAMERA

1.	Image Sensor	1/3 type MOS image sensor
2.	Effective Pixels	Approx. 2.4 megapixels
3.	Scanning Mode	Progressive
4.	Scanning Area	5.38 mm (H) x 3.02 mm (V) {7/32 inches(H) x 1/8 inches(V)}
5.	Minimum Illumination	
a.	Color	0.3 lux (F1.6, Shutter speed of 1/30s, Gain: On(High))
b.	B/W	0.04 lux (F1.6, Shutter speed of 1/30s, Gain : On(High))

C. Lens

1.	Vari-Focal Length	4.3 ~ 129.0mm {3/16 inches – 5-3/32 inch}
2.	Max. Aperture Ratio	1 : 1.6 (WIDE) ~ 1 : 4.7 (TELE)
3.	Angular Field of View	
a.	16:9 aspect ratio	H: 2.6° (TELE) – 64.6° (WIDE)
		V: 1.6° (TELE) – 38.2° (WIDE)
b.	4:3 aspect ratio	H: 1.4° (TELE) – 44.4° (WIDE)
		V: 1.1° (TELE) – 33.8° (WIDE)

D. VIDEO

1.	Compression Format	H.264, JPEG
2.	Image Resolution	
a.	16:9 aspect ratio	1,280 x 720 / 640 x 360 / 320 x 180 (30fps)
b.	4:3 aspect ratio	1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240 (30fps)
3.	H.264	
a.	Transmission Mode	Constant bitrate / Frame rate priority / Best effort / Advanced VBR
b.	Frame Rate	1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps (depending on distribution mode.)
c.	Bit Rate/Client	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 kbps (depending on distribution mode.)
d.	Transmission type	Unicast, Multicast
4.	JPEG	
a.	Image quality	10 steps
b.	Transmission type	Pull, Push

E. Audio

a.	Audio Compression	G.726 (ADPCM) , G.711, AAC-LC
b.	Audio Mode	Off / Microphone input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)

F. OPERATION

1.	Super Dynamic Range	On / Off
2.	Adaptive Black Stretch	On / Off
3.	AGC	On (LOW, MID, HIGH) / Off
4.	Day & Night	Day and Night functionality with a built-in IR-cut filter removal Off/ On/ Auto1 (Normal) / Auto2 (IR light) / Auto3 (SCC)

5.	Digital Noise Reduction	High / Low
6.	Video Motion Detection	4 areas, Sensitivity:15 steps, Detection size:10 steps
7.	Privacy Zone	On/Off, up to 32 zones
8.	VIQS	Up to 2 zones
9.	Camera Title (OSD)	Up to 20 characters
10.	Panning Range	360-degrees endless
11.	Panning Speed	
	a. Manual	Approx. 0.065°/s to 120°/s, Up to 256 steps (depending on the controller)
	b. Preset	Up to approx.. 300°/s
12.	Tilting Range	-15° to 195°
13.	Tilting Speed	
	a. Manual	Approx. 0.065°/s to 120°/s, Up to 256 steps
	b. Preset	Up to approx.. 300°/s

G. NETWORK

1.	Network Interface	10Base-T / 100Base-TX, RJ-45 connector
2.	IP	IPv6, IPv4
3.	Supported Protocols	
	a. IPv6	TCP/IP, UDP/IP, HTTP, HTTPS, RTP, RTSP, RTP/RTCP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMP, ARP
	b. IPv4	TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP
4.	Max. User access	Up to 14 users
5.	GUI Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese

H. INTERFACE

1.	Monitor Output	VBS : 1.0 V [p-p] / 75 ohm, NTSC / PAL composite, BNC jack
2.	Microphone	ø3.5 mm stereo mini jack
3.	Audio Output	ø3.5 mm stereo mini jack
4.	External I/O Terminals	ALARM IN 1 (DAY/NIGHT IN), ALARM IN 2 (ALARM OUT), ALARM IN 3 (AUX OUT)
1.	SD memory card slot	1 slot, SD/SDHC/SDXC

I. ELECTRICAL

1.	Power Source	AC 24V, PoE+
2.	Power Consumption	Approx. 55W (AC 24V), Approx. 25W (PoE+)

J. SAFETY / EMC

1.	Safety	UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1
2.	EMC	FCC (Part15 Class A), ICES-003 Class A, EN55022 Class B, EN55024

K. MECHANICAL

1.	Dimensions (D x H)	ø229 mm x 392 mm (ø9-1/32 x 15-7/16 inches) Diameter of the dome 160 mm (6-5/16 inched)
2.	Weight	Approx. 5.0 kg (11.02 lbs.)
3.	Construction material	
	a. Main body	Aluminum die cast
	b. Sunshields	ASA resin
	c. Dome	Polycarbonate resin
4.	Finish	
	a. Main body	Natural silver

       b.   Sunshields   Natural silver
       c.   Dome   Clear

L. ENVIRONMENTAL

1.   Vandal Resistance   IEC 62262 IK10
2.   Ingress Resistance   IP66, IEC60529, Type 4X (UL50), NEMA 4X compliant
3.   Operating Temperature
       a.   AC24V   -50 °C ~ +55 °C (-58 °F ~ 131 °F)
       b.   PoE+   -30 °C ~ +55 °C (-22 °F ~ 131 °F)
4.   Operating Humidity   Less than 90 % (without condensation)