

**PANASONIC WV-SC387 Super Dynamic PTZ Dome NETWORK CAMERA**

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**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-SC387 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 utilize an approximate 1/3-inch type high sensitivity MOS image sensor.
5. The PTZ Dome Network Camera shall offer Super Dynamic Range (SD).
6. 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.
7. The PTZ Dome Network Camera shall generate multiple simultaneous video streams of JPEG and H.264 high profile.
8. The PTZ Dome Network Camera shall utilize 3D-Digital Noise Reduction (3D-DNR) to remove visual noises in low light conditions.
9. 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.
10. 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.
11. The PTZ Dome Network Camera shall provide up to thirty two (32) areas of electronic privacy masking.
12. The PTZ Dome Network Camera shall offer the prioritized stream control which transmits a video stream to the specified client PC or recorder preferentially.
13. The PTZ Dome Network Camera shall have a SD memory card slot that supports SD, SDHC and SDXC memory card for local storage.
14. The PTZ Dome Network Camera shall offer full-duplex bi-directional audio communication between the camera and monitoring site.
15. The PTZ Dome Network Camera shall conform to the ONVIF standard.

**B. CAMERA**

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|-------------------------|--|
| 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: 2.34° (TELE) – 65.1° (WIDE)<br>V: 1.36° (TELE) – 38.4° (WIDE) |
| b. 4:3 aspect ratio      | H: 1.6° (TELE) – 45.2° (WIDE)<br>V: 1.2° (TELE) – 34.3° (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<br>(depending on distribution mode.)  |
| c. Bit Rate/Client    | 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 /<br>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**

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|----------------------------|---|
| 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<br>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             -25° to 205°
- 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, ø3.5 mm monaural mini 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             DC 12V, PoE
- 2. Power Consumption       Approx. 12W (DC 12V), Approx. 12W (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)       ø185 mm x 211 mm (ø7-9/32 x 8-5/16 inches)
- 2. Weight                    Approx. 1.5 kg (3.31 lbs.)
- 3. Construction material    ABS resin
- 4. Finish
  - a. Camera                    Black
  - b. Decorative cover        Sail white

**L. ENVIRONMENTAL**

- 1. Operating Temperature   -10 °C ~ +55 °C (14 °F ~ 131 °F)
- 2. Operating Humidity       Less than 90 % (without condensation)