

PANASONIC WV-SFV781L 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-SFV781L 4K VANDAL RESISTANT DOME NETWORK CAMERA

A. GENERAL CHARACTERISTICS

1. The Dome Network Camera shall produce a resolution of 4,000 x 3,000 pixels at up to 15 fps with a 12 mega pixel mode.
2. The Dome Network Camera shall produce a resolution of 3,840 x 2,160 pixels at up to 30 fps with an 8 mega pixel mode.
3. The Dome Network Camera shall utilize an approximate 1/1.7-inch high sensitivity MOS image sensor.
4. The Dome Network Camera shall offer Wide Dynamic Range (WDR).
5. The Dome Network Camera shall produce a color image with a minimum illumination of 0.02 lux and a monochrome image with 0.003 lux at F1.6, shutter speed of 16/30s and High gain mode.
6. The Dome Network Camera shall offer a built-in IR LED to produce a clear monochrome image in zero lux conditions with 30m (98.43feet) irradiation distance.
7. The Dome Network Camera shall generate multiple simultaneous video streams of JPEG and H.264 high profile.
8. The Dome Network Camera shall utilize 3D-Digital Noise Reduction (3D-DNR) to remove visual noises in low light conditions.
9. The Dome Network Camera shall be rated to IP66 and NEMA 4X standard against water and dust ingress.
10. The Dome Network Camera shall be rated to IEC 62262 IK10 vandal resistance.
11. The Dome Network Camera shall offer Video Motion Detection (VMD) with four (4) programmable detection areas, 15 steps sensitivity level and 10 steps detection size.
12. The Dome Network Camera shall provide Variable Image Quality on Specified area (VIQS) which sets different image qualities to up to eight (8) areas in the full view to reduce bandwidth and storage capacity requirements.
13. The Dome Network Camera shall provide up to eight (8) areas of electronic privacy masking.
14. The Dome Network Camera shall offer the prioritized stream control which transmits a video stream to the specified client PC or recorder preferentially.
15. The Dome Network Camera shall have a SD memory card slot that supports SD, SDHC and SDXC memory card for local storage.

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

17. The Dome Network Camera shall conform to the ONVIF standard.

B. CAMERA

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|-------------------------|---|
| 1. Image Sensor | 1/1.7 type MOS image sensor |
| 2. Effective Pixels | Approx. 12.4 megapixels |
| 3. Scanning Mode | Progressive |
| 4. Scanning Area | 7.40 mm (H) x 5.55 mm (V) {9/32 inches(H) x 7/32 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

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|--------------------------|---|
| 1. Vari-Focal Length | 4.2 ~ 25.2mm {5/32 inches – 1 inch} |
| 2. Max. Aperture Ratio | 1 : 1.6 (WIDE) ~ 1 : 3.3 (TELE) |
| 3. Angular Field of View | |
| a. 16:9 aspect ratio | H: 17° (TELE) - 96° (WIDE)
V: 9.3° (TELE) - 54° (WIDE) |
| b. 4:3 aspect ratio | H: 17° (TELE) - 100° (WIDE)
V: 13° (TELE) - 75° (WIDE) |
| 4. Focus adjustment | Auto Focus, Manual (HTML only) |

D. VIDEO

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|-----------------------|---|
| 1. Compression Format | H.264, JPEG |
| 2. Distribution mode | 12-megapixel mode, 8-megapixel 30fps mode, 8-megapixel 15fps mode, 5-megapixel mode, 4-megapixel mode, Cropping mode |
| 3. H.264 | |
| a. Transmission Mode | Constant bitrate / VBR / 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 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 / 30,720 / 40,960 kbps (depending on distribution mode.) |
| d. Transmission type | Unicast, Multicast |
| 4. JPEG | |
| a. Image quality | 10 steps |
| b. Transmission type | Pull, Push |

E. Audio

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|----------------------|---|
| 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. Wide Dynamic Range | On / Off |
| 2. Adaptive Black Stretch | On / Off |
| 3. AGC | On (LOW, MID, HIGH) / Off |

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|----------------------------|--|
| 4. Day & Night | On/ Auto (Normal, IR Light, SCC) / Off |
| 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 8 zones |
| 8. VIQS | Up to 8 zones |
| 9. Camera Title (OSD) | Up to 20 characters |

G. NETWORK

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|------------------------|--|
| 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, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, 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

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|---------------------------|--|
| 1. Monitor Output | VBS : 1.0 V [p-p] / 75 ohm, NTSC / PAL composite, RCA 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, DAY/NIGHT OUT) |
| 1. SD memory card slot | 1 slot, SD/SDHC/SDXC |

I. ELECTRICAL

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| 1. Power Source | DC 12V, PoE |
| 2. Power Consumption | Approx. 12.6W (DC 12V), Approx. 12.95W (PoE) |

J. SAFETY / EMC

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|-----------|--|
| 1. Safety | UL (UL60950-1, UL60950-22), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 |
| 2. EMC | FCC (Part15 Class A), ICES003 Class A, EN55022 Class B, EN55023 Class B, EN55024 |

K. MECHANICAL

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|--------------------------|--|
| 1. Dimensions (D x H) | ø228 mm x 189 mm {ø8-31/32 x 7-7/16 inches} (excluding the base bracket) |
| 2. Weight | Approx. 3.2 kg (7.05 lbs.) |
| 3. Construction material | |
| a. Main body | Aluminum die cast |
| b. Dome | Polycarbonate resin |
| 4. Finish | |
| a. Main body | Light gray |
| b. Dome | Clear |

L. ENVIRONMENTAL

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|--------------------------|---|
| 1. Vandal Resistance | IEC 62262 IK10 |
| 2. Ingress Resistance | IP66, IEC60529 measuring standard compatible, Type 4X (UL50), NEMA 4X compliant |
| 3. Operating Temperature | -45 °C ~ +50 °C (-49 °F ~ 122 °F) |
| 4. Operating Humidity | 10 % ~ 90 % (without condensation) |