

PANASONIC WV-S1131 FIXED 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-S1131 SUPER DYNAMIC FIXED NETWORK CAMERA

A. GENERAL CHARACTERISTICS

1. The Super Dynamic Fixed Camera shall deliver H.265 stream and H.264 stream.
2. The Super Dynamic Fixed Camera shall produce a resolution of 1,920 x 1,080 pixels (HD 1080p) at up to 60 fps with a 16:9 aspect ratio.
3. The Super Dynamic Fixed Camera shall produce a resolution of 2,048 x 1,536 pixels at 30fps with a 4:3 aspect ratio.
4. The Super Dynamic Fixed Camera shall utilize an approximate 1/2.8 type high sensitivity MOS image sensor.
5. The Super Dynamic Fixed Camera shall feature a 144dB wide dynamic range based on Enhanced Super Dynamic and Adaptive Black Stretch technology (ABS).
6. The Super Dynamic Fixed Camera shall produce a color image with a minimum illumination of 0.01 lux and a monochrome image with 0.004 lux at F1.4, maximum shutter of 1/30s and High gain mode.
7. The Super Dynamic Fixed Camera shall generate multiple simultaneous video streams of up to four (4) H.265 (Main profile) or H.264 (High profile) streams and JPEG streams.
8. The Super Dynamic Fixed Camera shall be equipped with intelligent auto mode, the technology for shooting license plate and person's face more clearly.
9. The Super Dynamic Fixed Camera shall be equipped with GOP control and Smart Facial coding which control an image quality of a stationary area, a moving area and a face, as bitrate reducing technology.
10. The Super Dynamic Fixed Camera shall produce encrypted stream.
11. The Super Dynamic Fixed Camera shall realize SSL / TLS communication with CA certificate.
12. A user shall be able to view video on a PC using a browser.
13. A user shall be able to view video on a smartphone and tablet using viewer software for iPhone and Android.
14. The Super Dynamic Fixed Camera shall offer Video Motion Detection (VMD) with four (4) programmable detection areas, 15 steps sensitivity level and 10 steps detection size.
15. The Super Dynamic Fixed Camera shall have Fog compensation function.

16. The Super Dynamic Fixed Camera shall have High light compensation (HLC) function.
17. The Super Dynamic Fixed Camera shall have Super Chroma Compensation (SCC) which realizes a better color reproducibility in the low illumination.
18. The Super Dynamic Fixed Camera shall provide up to eight (8) areas of electronic privacy masking.
19. The Super Dynamic Fixed Camera shall offer the prioritized stream control which transmits a video stream to a specified client PC or recorder preferentially.
20. The Super Dynamic Fixed Camera shall have a SD memory card slot that supports SD, SDHC and SDXC memory card for local storage.
21. The Super Dynamic Fixed Camera shall offer full-duplex bi-directional audio communication capability between the camera and monitoring site.
22. The Super Dynamic Fixed Camera shall have four (4) alarm sources of terminal input, VMD, command alarm and audio detection alarm that activate the processes such as SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification, Indication on browser, FTP image transfer and Panasonic alarm protocol output.
23. The Super Dynamic Fixed Camera shall conform to the ONVIF standard.

B. CAMERA

- | | |
|-------------------------|---|
| 1. Image Sensor | 1/2.8 type MOS image sensor, Built-in primary color filter |
| 2. Scanning Mode | Progressive |
| 3. Minimum Illumination | |
| a. Color | 0.01 lux (F1.4, Maximum shutter: Max. 1/30s, Gain: On(High)) |
| b. B/W | 0.004 lux (F1.4, Maximum shutter: Max. 1/30s, Gain: On(High)) |
| 4. Day & Night | IR Cut filter Removal |
| 5. Dynamic Range | 144 dB typ. (Super Dynamic: On) |

C. OPTICAL

- | | |
|---------------------|--------------------------------|
| 1. Lens mount | CS mount |
| 2. Focus adjustment | Auto Back Focus (ABF) / Manual |

D. VIDEO

- | | |
|--|---|
| 1. Compression Format | H.265, H.264, JPEG |
| 2. Image Resolution | |
| a. 16:9 aspect ratio (1.3 mega pixel mode) | 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 (30/60fps) |
| b. 4:3 aspect ratio (1.3 mega pixel mode) | 2,048 x 1,536 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 (30fps) |
| 3. H.265 / H.264 | |
| a. Transmission Mode | Constant bitrate, VBR, Frame rate priority, Best effort |
| b. Frame Rate | 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps |
| 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 |
| d. Image Quality | |
| i. Constant bit rate | Motion priority / Normal / Quality priority |
| ii. Best effort | Motion priority / Normal / Quality priority |
| iii. VBR | 10 steps |

- e. Transmission type Unicast, Multicast
- 4. JPEG
 - a. Image quality 10 steps
 - b. Transmission type Pull, Push

E. Audio

- a. Audio Compression G.726 (ADPCM) 32kbps / 16kbps, G.711 64kbps, AAC-LC
- b. Audio Mode OFF / Mic input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)

F. OPERATION

- 1. Super Dynamic On / Off
The level can be set in the range of 0 to 31.
- 2. Intelligent Auto On / Off
- 3. Adaptive Black Stretch The level can be set in the range of 0 to 255.
- 4. Fog compensation On / Off (Only when Intelligent Auto is off.)
- 5. Black light compensation High light compensation BLC (Black light compensation) / HLC (High light compensation) / Off
(Only when Super dynamic and Intelligent Auto is off)
- 6. AGC The level can be set in the range of 0 to 11.
- 7. Maximum shutter Off(1/30) to 1/10000
*1/30 Fix to 2/100 Fix is available during 30 fps mode only.
- 8. Day & Night On / Off / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)
- 9. Digital Noise Reduction The level can be set in the range of 0 to 255.
- 10. Video Motion Detection On / Off, 4 areas, Sensitivity:15 steps, Detection size:10 steps
- 11. Privacy Zone On / Off, Up to 8 zones
- 12. Camera Title (OSD) Up to 20 characters
- 13. Digital Zoom 1x, 2x, 4x

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, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP, DiffServ
 - b. IPv4 TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP, DiffServ
- 4. Max. User access Up to 14 users
- 5. Mobile Terminal Compatibility iPad, iPhone, Android™ mobile terminals

H. INTERFACE

- 1. Monitor Output VBS : 1.0 V [p-p] / 75 ohm, NTSC / PAL composite, RCA jack, for adjustment
- 2. Microphone input ø3.5 mm monaural mini jack
- 3. Line input Input level: Approx. -10 dBV
- 4. Audio Output ø3.5 mm stereo mini jack (monaural output)
- 5. External I/O Terminals ALARM IN 1 (DAY/NIGHT IN), ALARM IN 2 (ALARM OUT), ALARM IN 3 (AUX OUT)
- 6. SD memory card slot 1 slot, SD/SDHC/SDXC

I. ELECTRICAL

- 1. Power Source DC 12V/460mA, PoE (Class 2)

- 2. Power Consumption Approx. 5.6W (DC 12V), Approx. 5.8W (PoE)

J. SAFETY / EMC

- 1. Safety UL (UL60950-1), C-UL (CAN/CSA C22.1 No.60950-1), CE, IEC60950-1
- 2. EMC FCC (Part15 Class A), ICES-003 Class A, EN55032 Class B, EN55024

K. MECHANICAL

- 1. Dimensions 75 mm (W) x 57 mm (H) x 146 mm (D)
 {2-15/16 inches (W) x 2-1/4 inches (H) x 5-3/4 inches (D)}
 (excluding lens and power cord plug)
- 2. Weight Approx. 350 g (0.77 lbs.) (excluding lens)
- 3. Construction material PC/ABS resin
- 4. Finish Sail white

L. ENVIRONMENTAL

- 1. Operating Temperature -10 °C ~ +50 °C (14 °F ~ 122 °F)
- 2. Operating Humidity 10 % ~ 90 % (without condensation)