

SNP-6320RH 2MEGAPIXEL FULL HD NETWORK PTZ DOME IR CAMERA

TECHNICAL SPECIFICATIONS

SECURITY SYSTEM

DIVISION – 28 ELECTRONIC SAFETY AND SECURITY

LEVEL 1 28 20 00 ELECTRONIC SURVEILLANCE

LEVEL 2 28 23 00 VIDEO SURVEILLANCE

LEVEL 3 28 23 29 VIDEO SURVEILLANCE REMOTE DEVICES AND SENSORS

PART 2 – PRODUCTS

2.01 GENERAL

- A. All equipment and materials used shall be standard components that are regularly manufactured and used in the manufacturer's system.
- B. All systems and components shall have been thoroughly tested and proven in actual use.
- C. All systems and components shall be provided with the availability of a toll-free (U.S. and Canada), 24-hour technical assistance program (TAP) from the manufacturer. The TAP shall allow for immediate technical assistance for either the dealer/installer or the end user at no charge for as long as the product is installed.

2.02 SNP-6320RH 2MEGAPIXEL FULL HD NETWORK PTZ DOME IR CAMERA

- A. These cameras shall support multi-streaming technologies, transferring real-time high resolution images. It shall support 60fps at all available resolution when using H.264.
- B. The camera shall provide 4.4~140.8mm (32x) optical zoom with 16x digital zoom. It shall support SD memory, and bi-directional audio.
- C. All operation and configuration menus shall be provided in English, Korean, Japanese, Chinese, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Dutch, Portuguese, Swedish, Danish, Romanian, Serbian, Croatian, Hungarian, and Greek.
- D. The camera shall be of a dome type suitable for external installation. The camera shall be ivory in appearance.
- E. The camera shall feature a motorized pan and tilt mechanism capable of panning at 250°/s and tilt movement at 250°/s under preset mode. Under manual mode it shall be possible to move at maximum speed of 120°/s
- F. The camera should be capable of capturing an image size of 1920x1080 at 60 images per second
- G. The camera shall feature a day / night mode that incorporates an infrared cut filter removal mechanism for true color reproduction and the best possible low light performance
- H. The camera shall feature a 32x zoom lens with continuous and one shot autofocus functions
- I. The camera shall feature Wide Dynamic Range with a gain of 120dB.
- J. The camera shall feature two integrated IR LED's. The IR shall function along with the zoom and dynamically vary the IR intensity as per the zoom ratio. The IR shall cover a distance of upto 150mts.

2.03 ELECTRICAL SPECIFICATIONS

- | | |
|----------------------------|--|
| A. Input Voltage | 24V AC only |
| B. Power Consumption, max. | Max. 30W (Heater Off) / 35W (Heater Off, IR on),
90W (Heater On, IR on) |

2.04 CAMERA

- | | |
|---|---------------------------|
| A. Imaging Device | 1/2.9" 2M CMOS |
| B. Total Pixels (horizontal x vertical) | 1952(H) x 1116(V) |
| C. Effective Pixels (horizontal x vertical) | 1,944(H) x 1104(V) |
| D. Scanning System | Progressive |
| E. Min. Illumination | |
| 1. Color | 0.3Lux (F1.6, 50IRE) |
| 2. B/W | 0Lux (IR LED on) |
| F. S / N ratio | 50dB |
| G. Video Output | CVBS:1.0 Vp-p |
| 1. NTSC | 704x480, for installation |
| 2. PAL | 704x576, for installation |

2.04 LENS

- | | |
|------------------|--------------------------|
| A. Focus control | Auto / Manual / One shot |
| B. Drive Type | DC auto iris |
| C. Zoom | 32x (4.4 ~ 140.8 mm) |

2.06 OPERATIONAL SPECIFICATION

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|--------------------------------|--|
| A. Camera Title | On, Off (displays up to 15 characters) |
| B. Day and Night | Auto (ICR), Color, B/W |
| C. Backlight Compensation | BLC, HLC, WDR, Off |
| D. Digital Noise Reduction | SSNR Off, On |
| E. Wide Dynamic Range | 120dB |
| F. Motion Detection | On, Off (1 programmable zones) |
| G. Privacy Masking | On, Off (32 rectangular zones)
Apply privacy mask with zoom ratio. |
| I. Gain Control | Off, Low, Medium, High, Manual |
| J. White Balance | ATW/AWC/Manual/Indoor/Outdoor/Mercury/Sodium |
| K. Electronic Shutter Speed | Minimum/Maximum/Anti-flicker (2~1/12000 sec) |
| L. Flip/Mirror | Off, On |
| M. Intelligent Video Analytics | Tampering, Virtual line, Enter / Exit, Appear / Disappear
Audio detection, Face detection (5ea)
Input 4ea / Output 3ea
Off/On |
| N. Alarm I/O | Yes (East/West/South/North OSD) |
| O. Auto Tracking | +/- 0.2 |
| P. Azimuth | Preset (255), Swing, Group (6), Trace, Tour, Auto Run,
Schedule. |
| Q. Preset Accuracy | 190° (-5 ~ 185) |
| R. Sequence | 360° Endless. |
| S. Tilt Range | RS485/422 |
| T. Pan Range | Samsung-T/E, Pelco D/P, Panasonic, Honeywell, AD
Vicon, GE, BOSCH. |
| U. Remote Control Interface | Alarm input, Motion detection, Intelligent Video analytics,
Network Disconnection. |
| V RS-485 Protocol | -File Upload via FTP, E-Mail
-Notification via E-Mail, TCP
-Local storage (SD/SDHC) or NAS recording .
-External Output.
-PTZ Preset |
| W. Alarm Triggers | |
| X. Alarm Events | |

Y. Edge Storage	-SD/SDHC/SDXC (Upto 128GB) Motion images recorded in the SD/SDHC/SDXC memory can be downloaded.
Z. Audio In	-Direct NAS (Network attached storage) support. Selectable (Mic IN, Line IN) Supply Voltage: 2.5VDC (4mA)
AA. Audio Out	Input impedance: approx 2K Ohm Line out (3.5mm stereo mini jack), Max output level: 1Vrms.

2.08 NETWORK

A. Ethernet	RJ-45 (10/100Base-T)
B. Video Compression	H.264,MJPEG-4 part 10/AVC), MJPEG
C. Resolution	1920 x 1080p(Full HD), 1280 x 1024, 1280 x 960, 1280 x 720P (HD), 1024 x 768, 800 x 600, 800 x 450, 640 x 480, 640 x 360, 320 x 240
D. Max Frame rate	60fps at all resolutions *when WDR on, frame rate is Max.30fps.
E. Video Quality	
1. H.264	Compression level, Target bit rate level control
2. MJPEG	Quality level control
F. Bitrate Control	
1. H.264	VBR or CBR
2. MJPEG	VBR
G. Streaming	Multiple, up to 10 streams
H. IP	IPv4, IPv6
I. Network Protocol	TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1, v2c, v3 (MIB-2), ARP, DNS, DDNS, QoS, ONVIF, PIM-SM, UPnP, Bonjour.
J. Security	HTTPS (SSL) login authentication, Digest login authentication, IP Address filtering, User access log, 802.1x authentication.
K. Streaming Method	Unicast, Multicast
L. User Access	15 users at Unicast
M. Memory Slot	SD/SDHC memory slot
N. ONVIF Conformance	Yes
O. Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatian, Hungarian, and Greek
P. Web Viewer	
1. Supported OS	Windows XP, Windows Vista, Windows 7, MAC OS
2. Supported Browser	Internet Explorer 7.0 or higher, Firefox, Chrome, Safari
Q. Central Management Software	SmartViewer 4.0, SSM

2.09 ENVIRONMENTAL SPECIFICATIONS

A. Operating Temperature	-50°C ~ +55°C (-58°F ~ +131°F) sustained maximum 65°C absolute maximum.
B. Operating Humidity	Less than 100% RH

2.10 PHYSICAL SPECIFICATIONS

A. Dimension	Ø248.0 x 399.5mm (Ø9.76" X 15.73")
B. Weight	6.6kg (14.95 lb)
C. Color	Ivory
D. Material	Aluminum

2.11 CERTIFICATIONS

- A. UL Listed
- B. UL Listed to Canadian safety standards
- C. CE mark
- D. FCC mark

2.12 WARRANTY

- A. 3 years