

SNV-6084 2 MEGAPIXEL HD VANDAL-RESISTANT NETWORK IR DOME 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 SNV-6084 2 MEGAPIXEL HD VANDAL-RESISTANT NETWORK IR DOME CAMERA

- A. The camera shall be of a dome type suitable for external installation. The camera shall be ivory in appearance with an aluminium body
- B. The camera shall be vandal resistant with an IK10 impact rating.

2.03 CAMERA

- A. Imaging Device 1/ 2.8" 2M PS Exmor 2.38M CMOS
- B. Total Pixels 1,952(H) x 1,116(V)
- C. Effective Pixels 1,944(H) x 1,104(V)
- D. Scanning System Progressive
- E. Min. Illumination
 - 1. Color 0.1 Lux (1/30sec, F1.2, 50IRE)
 - 0.0017 Lux(2sec, F1.2, 50IRE)
 - 2. B/W 0.01 Lux (1/30sec, F1.2, 50IRE)
- F. S / N Ratio 50dB
- G. Video Output CVBS : 1.0 Vp-p / 75Ω composite, 704x480(N),
704x576(P), for installation
- DIP connector type

2.04 LENS TYPE

- A. Lens Type DC Auto Iris
- B. Mount Type Board-in type
- C. Focal Length(Zoom Ratio) 3~ 8.5mm (2.8X) Motorized Varifocal
- D. Max. Aperture Ratio F1.2
- E. Angular Field of View
 - H : 105.5°(Wide) ~ 37.1°(Tele)
 - V : 57.5°(Wide) ~ 21.0°(Tele)
- F. Min. Object Distance 0.5M
- G. Focus Control Simple Focus (Motorized V/F) / Manual
- Remote control via network
(Manual, Simple Focus)

2.05 Pan / Tilt / Rotate

- A. Pan Range '0 ° ~ +355 °
- B. Tilt Range '0 ° ~ +67 °
- C. Rotate Range '0 ° ~ +355 °

2.06 OPERATION

A. Camera Title	Off / On (Displayed up to 45 characters)
B. Day & Night	Auto (ICR) / Color / B/W / External / Schedule
C. Backlight Compensation	Off, BLC
D. Wide Dynamic Range	Off, / On (120dB)
E. Contrast Enhancement SSDR	On, Off
F. Digital Noise Reduction SSNR III	On, Off
G. Motion Detection	Off / On (4ea 4 Points Polygonal zones)
H. Privacy Masking	Off / On (32ea Rectangular zones)
I. Gain Control	Off / Low / Middle / High / Manual
J. White Balance	ATW / AWC / Manual / Indoor / Outdoor
K. Electronic Shutter Speed	Minimum/Maximum/Anti flicker
L. Flip / Mirror	Off, On
M. Intelligent Video Analytics	Tampering, Virtual Line, Enter/Exit, Appear / Disappear, Audio Detection, Face Detection
N. Alarm I/O	Input 1ea / Output 1ea
O. Alarm Triggers	Motion detection, Tampering, Audio Detection, Face Detecton, Video Analytics, Alarm Input
P. Alarm Events	File upload via FTP and E-Mail Notification via E-Mail, TCP and HTTP local storage(SD/SDHC/SDXC) recording at Network disconnected & Event (Alarm Triggers) External output
Q. Defog	Auto/Manual/Off

2.07 NETWORK PROTOCOL

A. Ethernet	RJ-45 (10/100Base-T)
B. Video Compression Format	H.264(MPEG-4 part 10/AVC), MJPEG
C. Resolution	1920x1080 / 1600x1200 / 1280x1024 / 1280x960 / 1280x720 / 1024x768 / 800x600 / 800x450 / 640x480 / 640x360 / 320x240 / 320x180
D. Max. Framerate	Max 60fps at all resolutions
1. H.264	1920x1080 / 1600x1200 / 1280x1024 / 1280x960 / 1280x720 / 1024x768 : Max. 15 fps
2. Motion JPEG	800x600 / 800x450 / 640x480 / 640x360 / 320x240 / 320x180 : Max. 30fps
E. Video Quality Adjustment	Compression level, Target bit rate level control
1. H.264	Quality level control
2. MJPEG	
F. Bitrate Control Method	CBR or VBR
1, H.264	VBR
2. MJPEG	
G. Streaming Capability	Multiple Streaming (Up to 10 Profiles)
H. Audio I/O	Mic(Line) in / Line out (1Vrms), Built-in Mic.
I. Audio Compression Format	G.711 u-law / G.726 Selectable
	G.726 (ADPCM) 8KHz, G.711 8KHz
	G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps
J. Audio Communication	Bi-directional audio
K. IP	IPv4, IPv6
L. Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
M. Security	HTTPS(SSL) Login Authentication
	Digest Login Authentication

	IP Address Filtering
	User access Log
	802.1x Authentication
N. Streaming Method	Unicast, Multicast
O. Max. User Access	15 users at Unicast mode
P. Memory Slot	SD/SDHC/SDXC
	- motion Images recorded in the SDX/SDHC/SD memory card can be downloaded.
Q. ONVIF Conformance	Yes, Profile S
R. Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatia, Hungary, Greek, Finnish, Norwegian
S. Web Viewer	
1. Supported OS	Windows XP / VISTA / 7 / 8, MAC OS X 10.7
2. Supported Browser	Microsoft Internet Explorer (Ver. 7~10), Mozilla Firefox (Ver. 9~19), Google Chrome (Ver. 15~25), Apple Safari (Ver. 6.0.2(Mac OS X 10.8, 10.7 Only), 5.1.7)
	* Mac OS X Only.
3. Central Management Software	SmartViewer 4.0
2.08 ELECTRICAL	
A. Voltage	12V DC, 24V AC, PoE(IEEE802.3af,Class3)
B. Consumption	Max. 9.5W(Heater off) Max. 13.5W(24V AC - Heater on)
2.09 ENVIRONMENTAL SPECIFICATIONS	
A. Operating Temperature	-40°C ~ +55°C(-40°F ~ +131°F) Start up should be done at above -35°C
B. Storage Temperature	-30°C ~ +60°C(-22°F ~ +140°F)
C. Operating Humidity	Less than 90% RH
D. Ingress Protection	IP66 Grade
E. Vandal Resistance	IK10
2.10 PHYSICAL SPECIFICATIONS	
A. Dimension(WxH)	160.0 x 118.5mm(6.3" x 4.67")
B. Weight	985g(2.17 lb)
C. Color	IVORY(Aluminum)
2.11 CERTIFICATIONS	
A. CE mark	
B. FCC mark	
2.12 WARRANTY	
A. 3 years, parts and labor.	