

## **SNV 5084R 1.3 MEGAPIXEL HD 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 5084R 1.3 MEGAPIXEL HD NETWORK IR DOME CAMERA**

- A. The camera shall be of a dome type suitable for internal installation. The camera shall be ivory in appearance.
- B. The network camera shall feature up to 1.3 Mega Pixel resolution in a 4:3 format. 16:9 format HD 720p shall also be available.
- C. The camera should be capable of capturing and transmitting an image size of 1280 x 1024 at 60 images per second.

#### **2.03 CAMERA**

- |                      |  |
|----------------------|--|
| A. Imaging Device    | 1/3" PS Exmor 1.37 CMOS(IMX238)  |
| B. Total Pixels      | 1,312(H) x 1,069(V)  |
| C. Effective Pixels  | 1,305(H) x 1,049(V)  |
| D. Scanning System   | Progressive  |
| F. Min. Illumination |  |
| 1. Color             | 0.05 Lux (1/30sec F1.2, 50IRE),<br>0.005Lux (1/30sec, F1.2, 30IRE)                                   |
| 2. B/W               | 0Lux(IR LED on)  |
| G. S / N Ratio       | 50dB   |
| H. Video Output      | CVBS : 1.0 Vp-p / 75Ω composite, 704x480(N),<br>704x576(P), for installation<br>- DIP connector type |

#### **2.04 LENS TYPE**

- |                             |   |
|-----------------------------|---|
| A. Lens Type                | DC Auto Iris, P-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 : 93.4°(Wide) ~ 33.1°(Tele)<br>V : 73.8°(Wide) ~ 26.5°(Tele)        |
| F. Min. Object Distance     | 0.5M(1.64ft)  |
| G. Focus Control            | Simple Focus (Motorized V/F) / Manual<br>- Remote control via network |

#### **2.05 Pan / Tilt / Rotate**

- |               |            |
|---------------|------------|
| A. Pan Range  | 0° ~ +354° |
| B. Tilt Range | 0° ~ +67°  |

C. Rotate Range	'0 ° ~ +355 °
<b>2.06 OPERATION</b>	
A. IR LED / Viewable Length	12ea / 30m(98.43ft)
B. Camera Title	Off / On (Displayed up to 40 characters)
C. Day & Night	Auto (ICR) / Color / B/W / External / Schedule
D. Backlight Compensation	Off, BLC, WDR
E. Wide Dynamic Range	130dB
F. Contrast Enhancement SSSR	On, Off
G. Digital Noise Reduction SSNR III	On, Off
H. Digital Image Stabilization	On, Off
I. Defog Off / Auto / Manual	
J. Motion Detection	Off / On (4 zones with 4-sided polygon)
K. Privacy Masking	Off / On (32 zones with 4-sided polygon)
L. Gain Control	Off / Low / Middle / High
M. White Balance	ATW / AWC / Manual / Indoor / Outdoor
N. Electronic Shutter Speed	Minimum / Maximum / Anti flicker
O. Flip / Mirror	Off, On
P. Intelligent Video Analytics	Tampering, Virtual Line, Enter/Exit, Appear / Disappear, Audio Detection, Face Detection
Q. Alarm I/O	Input 1ea / Output 1ea
R. Alarm Triggers	Motion detection, Tampering, Audio Detection, Face Detection, Video Analytics, Alarm Input, Network Disconnection
S. 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
<b>2.07 NETWORK PROTOCOL</b>	
A. Ethernet	RJ-45 (10/100Base-T)
B. Video Compression Format	H.264(MPEG-4 part 10/AVC), MJPEG
C. Resolution	1280x1024 / 1280x720 / 1024x768 / 800x600 / 640x480 / 320x240
D. Max. Framerate	
1. H264	Max 60fps at all resolutions
2. Motion JPEG	1280x1024 / 1280x720 / 1024x768 : Max. 15 fps 800x600 / 640x480 / 320x240 : Max. 30fps
E. Video Quality Adjustment	
1. H.264	Compression level, Target bit rate level control
2. MJPEG	Quality level control
F. Bitrate Control Method	
1, H.264	CBR or VBR
2. MJPEG	VBR
G. Streaming Capability	Multiple Streaming (Up to 10 Profiles)
H. Audio In	Selectable (Mic in / Line in) Supply voltage : 2.5V DC(4mA), Input impedance : approx. 2K Ohm
I. Audio Out	Line out(3.5mm mono jack), Max output level : 1 Vrms
J. Audio Compression Format	G.711 u-law / G.726 Selectable G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps
K. Audio Communication	Bi-directional audio
L. IP	IPv4, IPv6
M. Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE, FTP, SMTP,

N. Security	<p>ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour</p> <p>HTTPS(SSL) Login Authentication</p> <p>Digest Login Authentication</p> <p>IP Address Filtering</p> <p>User access Log</p> <p>802.1x Authentication</p>
O. Streaming Method	Unicast, Multicast
P. Max. User Access	15 users at Unicast mode
Q. Edge Storage	<p>SD/SDHC/SDXC</p> <p>- motion Images recorded in the SDX/SDHC/SD memory card can be downloaded,</p> <p>NAS(Network Attached Storage)</p>
R. Application Programming Interface	Onvif Profile S, SUNAPI(HTTP API), SVN 1.2
S. Webpage Language	<p>English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatia, Hungary, Greek, Norwegian</p>
T. Web Viewer	
1. Supported OS	Windows XP / VISTA / 7 / 8, MAC OS X 10.7
2. Supported Browser	<p>Microsoft Internet Explorer (Ver. 8~10),</p> <p>Mozilla Firefox (Ver. 9~19),</p> <p>Google Chrome (Ver. 15~25),</p> <p>Apple Safari (Ver. 6.0.2(Mac OS X 10.8, 10.7 Only), 5.1.7)</p> <p>* Mac OS X Only.</p>
3. Central Management Software	SmartViewer 4.0, SSM(Samsung Security Manager)
<b>2.08 ELECTRICAL</b>	
A. Voltage	DC12V, AC24V, PoE(IEEE802.3af)
B. Consumption	Max. 12.95W(Heater on), Max. 11W(Heater off)
<b>2.09 ENVIRONMENTAL SPECIFICATIONS</b>	
A. Operating Temperature	-40°C ~ +55°C (-40°F ~ 131°F)
B. Operating Humidity	<p>Less than 90% RH</p> <p>*Start up should be done at above -35°C</p>
C. Ingress Protection	IP66
D. Vandal Resistance	IK10
<b>2.10 PHYSICAL SPECIFICATIONS</b>	
A. Dimension	D160.0 ,H118.5
B. Weight	985g(2.17lb)
C. Color	IVORY(Aluminum)
<b>2.11 CERTIFICATIONS</b>	
A. CE mark	
B. FCC mark	
C. ULL	
<b>2.12 WARRANTY</b>	
A. 3 years, parts and labor.	