

**SND L5083R 1.3 MEGAPIXEL HD WEATHERPROOF NETWORK 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 SND L5083R 1.3 MEGAPIXEL HD WEATHERPROOF NETWORK IR CAMERA**

- A. The camera shall be of a bullet type suitable for external installation. The camera shall be dark grey in appearance with a metal body and integrated wall bracket.
- B. The camera shall provide video compression dual codec ( H.264 and MJPEG).
- C. The network camera shall feature up to 1.3 Mega Pixel resolution in a 16:9 format. 4:3 format shall also be available in smaller resolutions.

**2.03 CAMERA**

- A. Imaging Device 1/2.9" 1.37M CMOS
- B. Total Pixels 1,312(H) x 1,069(V)
- C. Effective Pixels 1,305(H) x 1,049(V)
- D. Scanning System Progressive
- E. Min. Illumination
  - 1. Color 0.04Lux (1/30sec, F1.4), 0.001Lux (2sec, F1.4)
  - 2. B/W 0Lux (IR LED on)

**2.04 LENS TYPE**

- A. Focal Length (Zoom Ratio) 3 ~ 10mm (3.3x) varifocal
- B. Max. Aperture Ratio F1.4
- C. Angular Field of View
  - H: 88.2 ° (Wide)~28.6 ° (Tele)
  - V: 69.4 ° (Wide)~23.0 ° (Tele)
  - D:117.3 ° (Wide)~36.2 ° (Tele)
- D. Min. Object Distance 0.5m (1.64ft)
- E. Lens Type DC auto iris
- F. Mount Type Board type
- G. Focus Control Manual

**2.05 OPERATION**

- A. Camera Title Off / On (Displayed up to 15 characters)
- B. Day & Night True Day & Night
- C. Backlight Compensation Off / BLC
- D. Contrast Enhancement SSDR (Samsung Super Dynamic Range) (Off / On)

E. Digital Noise Reduction	SSNR (Off / On)
F. Motion Detection	Off / On (4ea rectangular zones)
G. Privacy Masking	Off / On (6ea rectangular zones)
H. Gain Control	Off / Low / Middle / High
I. White Balance	ATW / AWC / Manual / Indoor / Outdoor
J. LDC(Lens Distortion Correction)	Off / On (5 levels with min / max)
K. Electronic Shutter Speed	Minimum / Maximum / Anti flicker
L. Flip / Mirror	Flip / Mirror / Hallway view
M. Intelligent Video Analytics	Motion detection with metadata, Tampering
N. Alarm Triggers	Motion detection, Tampering detection, SD card error, NAS error
O. Alarm Events	File upload via FTP and E-mail, Local storage recording at event, Notification via E-mail
P. IR Viewable Length	20m (65.62ft)

## **2.06 NETWORK PROTOCOL**

A. Ethernet	RJ-45 (10/100BASE-T)
B. Video Compression Format	H.264, MJPEG
C. Resolution	1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 720 x 576, 640 x 480, 320 x 240
D. Max. Framerate	Max. 30fps at all resolutions
1. H.264	Max. 1fps@1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768,
2. MJPEG	Max. 15fps@other resolution
E. Video Quality Adjustment	Target bitrate 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 3 profiles)
H. Audio In	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	Uni-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	6 users at unicast mode
P Edge Storage	micro SD/SDHC max. 32G, NAS

Q Application Programming interface R Webpage Language	<ul style="list-style-type: none"> <li>- Motion images recorded in the SD memory card can be downloaded</li> <li>- Manual recording at local PC</li> </ul> ONVIF Profile S, G, SUNAPI (HTTP API) English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek, Norwegian, Finnish
S.eb Viewer 1. Supported OS 2. Supported Browser	Windows XP / VISTA / 7 / 8 / 8.1, MAC OS X 10.7 ~ 10.10 Microsoft Internet Explorer (Ver. 8 ~ 11), Mozilla Firefox (Ver. 9 ~ 35), Google Chrome (Ver. 15 ~ 40), Apple Safari (Ver. 8.0.2(Mac OS X 10.10), 7.0.6(Mac OS X 10.9), 6.0.2 (Mac OS X 10.8, 10.7 only), 5.1.7) * Mac OS X only SmartViewer
T Central Management Software	
<b>2.07 ELECTRICAL</b>	PoE (IEEE802.3af, Class2) Max. 5.9W
<b>2.08 ENVIRONMENTAL SPECIFICATIONS</b>	A. Operating Temperature / Humidity -10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH B. Storage Temperature / Humidity -30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH C. Ingression Protection IP66 D. Vandal Resistance IK10
<b>2.09 PHYSICAL SPECIFICATIONS</b>	A. Dimension Ø70.0 x 246.0mm (Ø2.76" x 9.69") (Without sunshield) B. Weight 650g (1.43 lb) C. Color/Material Dark gray / Metal
<b>2.10 CERTIFICATIONS</b>	A. CE mark B. FCC mark
<b>2.11 WARRANTY</b>	A. 3 years, parts and labor.