

SND L6013R 2 MEGAPIXEL FULL 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 L6013R 2 MEGAPIXEL FULL HD WEATHERPROOF NETWORK IR CAMERA

- A. The camera shall be of a bullet type. The camera shall be dark grey in appearance with an plastic 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 2 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" 2.19M CMOS
- B. Total Pixels 2,000(H) x 1,121(V)
- C. Effective Pixels 1,984(H) x 1,105(V)
- D. Scanning System Progressive
- E. Min. Illumination
 - 1. Color 0.15Lux (1/30sec, F1.8), 0.003Lux (2sec, F1.8)
 - 2. B/W 0Lux (IR LED on)

2.04 LENS TYPE

- A. Focal Length (Zoom Ratio) 3.6mm fixed
- B. Max. Aperture Ratio F1.8
- C. Angular Field of View H: 86.5 ° / V: 47.8 ° / D:101.2 °
- D. Min. Object Distance 0.5m (1.64ft)
- E. Lens Type Fixed
- F. Mount Type Board type

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 (6 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	1920 x 1080, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 720 x 576, 640 x 480, 320 x 240
D. Max. Framerate	
1. H.264	Max. 30fps at all resolutions
2. MJPEG	Max. 1fps@1920 x 1080, 1280 x 960, 1280 x 720, 1024 x 768, Max. 15fps@other resolution
E. Video Quality Adjustment	
1. H.264	Target bitrate 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 3 profiles)
H. Audio In	Line in
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 - Motion images recorded in the SD memory card can be downloaded

Q Application Programming interface	- Manual recording at local PC
R Webpage Language	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. Web Viewer	
1. Supported OS	Windows XP / VISTA / 7 / 8 / 8.1, MAC OS X 10.7 ~ 10.10
2. Supported Browser	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
T Central Management Software	SmartViewer
2.07 ELECTRICAL	
A. Voltage	PoE (IEEE802.3af, Class2)
B. Consumption	Max. 5.7W
2.08 ENVIRONMENTAL SPECIFICATIONS	
A. Operating Temperature / Humidity	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH *Start up should be done at above -20°C (-4°F)
B. Storage Temperature / Humidity	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH
C. Ingress Protection	IP66
2.09 PHYSICAL SPECIFICATIONS	
A. Dimension	Ø58.6 x 165.2mm (Ø2.31" x 6.5") (Without sunshield)
B. Weight	250g (0.55 lb)
C. Color/Material	Dark gray / Plastic
2.10 CERTIFICATIONS	
A. CE mark	
B. FCC mark	
2.11 WARRANTY	
A. 3 years, parts and labor.	