

SND L6013R 2 MEGAPIXEL 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 SND L6013R 2 MEGAPIXEL NETWORK IR DOME CAMERA

- A. The camera shall be of a DOME type suitable for interior installation. The camera shall be ivory in appearance with a plastic body.
- 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.
- D. The camera shall feature an Adaptive Infrared illumination system with IR LEDs giving a viewable distance of 15m (49.21ft) in complete darkness.

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 PAN/TILT/ROTATE

A. Pan Range	0° ~ 350°
B. Tilt Range	0° ~ 67°
C. Rotate Range	0° ~ 355°

2.06 OPERATION

A. Camera Title	Off / On (Displayed up to 15 characters)
B. Day & Night	Electric 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	15m(49.21ft)

2.07 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	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
	Unicast / Multicast
N. Streaming Method	
O. ax. 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
	- Manual recording at local PC
Q. Application Programming interface	ONVIF Profile S, G, SUNAPI (HTTP API)
R. Webpage Language	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
2.08 ELECTRICAL	
A. Voltage	PoE (IEEE802.3af, Class2)
B. Consumption	Max. 5.9W
2.09 ENVIRONMENTAL SPECIFICATIONS	
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
2.10 PHYSICAL SPECIFICATIONS	
A. Dimension	Ø110.0 x 86.0mm (Ø4.33" x 3.39")
B. Weight	250g (0.55 lb)
C. Color/Material	Ivory / Plastic
2.11 CERTIFICATIONS	
A. CE mark	
B. FCC mark	
2.12 WARRANTY	
A. 3 years, parts and labor.	