

SND L6012 2 MEGAPIXEL NETWORK 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 L6012 2 MEGAPIXEL NETWORK 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.

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 0.15Lux (1/30sec, F1.8)

2.04 LENS TYPE

- A. Focal Length (Zoom Ratio) 2.8mm fixed
- B. Max. Aperture Ratio F1.8
- C. Angular Field of View H: 110° / V: 61° / D: 125°
- 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

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
N. Streaming Method	Unicast / Multicast

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. 2.4W
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	240g (0.53 lb)
C. Color/Material	Ivory / Plastic
2.11 CERTIFICATIONS	
A. CE mark	
B. FCC mark	
2.12 WARRANTY	
A. 3 years, parts and labor.	