SND L6083R 2 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 L6083R 2 MEGAPIXEL HD WEATHERPROOF NETWORK IR CAMERA

1. 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.
2. The camera shall provide video compression dual codec ( H.264 and MJPEG).
3. 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 | 0.095Lux (1/30sec, F1.4), 0.002Lux (2sec, F1.4) |
|  | 2. B/W | 0Lux (IR LED on) |

2.04 LENS TYPE

|  |  |
| --- | --- |
| A. Focal Length (Zoom Ratio) | 2.8 ~ 12mm (4.3x) varifocal |
| B. Max. Aperture Ratio | F1.4 |
| C. Angular Field of View | H: 103.8 ˚ (Wide)~32.4 ˚ (Tele)  V: 53.7 ˚ (Wide)~18.4 ˚ (Tele)  D:121.9 ˚ (Wide)~37.1 ˚ (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

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| --- | --- | --- |
| 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  - 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.eb 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**

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| A. Voltage | PoE (IEEE802.3af, Class2) |
| B. Consumption | Max. 5.9W |

**2.08 ENVIRONMENTAL SPECIFICATIONS**

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| --- | --- |
| 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. Ingression Protection | IP66 |
| D. Vandal Resistance | IK10 |

**2.09 PHYSCIAL SPECIFICATIONS**

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| A. Dimension | Ø70.0 x 246.0mm (Ø2.76" x 9.69") (Without sunshield) |
| B. Weight | 700g (1.54 lb) |
| C. Color/Material | Dark gray / Metal |

**2.10 CERTIFICATIONS**

A. CE mark

B. FCC mark

2.11 WARRANTY

A. 3 years, parts and labor.