

SNB 2000 4CIF NETWORK 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 SNB 2000 4CIF NETWORK CAMERA

- A. The network camera shall offer 30fps in NTSC and 25fps in PAL at 4CIF resolution.
- B. The camera shall provide video compression in H.264, MPEG-4 and MJPEG multiple codec.
- C. The camera shall support PoE.
- D. The camera shall provide a customizable on-screen display (OSD) which shall be available in English, French, Spanish, Japanese and Portuguese in NTSC and English, French, German, Spanish, Italian, and Chinese in PAL.

2.03 CAMERA

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|--------------------------|---|
| A. Imaging Device | 1/3" Super HAD Progressive Scan CCD |
| B. Total Pixels | |
| 1. NTSC | 811 (H) x 508 (V) |
| 2. PAL | 795 (H) x 596 (V) |
| C. Effective Pixels | |
| 1. NTSC | 768 (H) x 494 (V) |
| 2. PAL | 752 (H) x 582 (V) |
| D. Scanning System | Progressive. |
| E. Frequency | |
| 1. NTSC | 15.734KHz (H), 59.94Hz (V) |
| 2. PAL | 15.625KHz (H), 50HZ (V) |
| F. Horizontal Resolution | Color: 600 TV Lines |
| G. Min. Illumination | |
| 1. Color | 0.4Lux (F1.2, 50IRE), 0.001Lux (Sens-up 512x) |
| 2. B/W | 0.04Lux (F1.2, 50IRE), 0.0001Lux (Sens-up 512x) |
| H. S/N Ratio | 52dB |
| I. Video Output | CVBS: 1.0 Vp-p, 75 ohms composite |

2.04 LENS TYPE

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|---------------|----------------------|
| A. Lens Type | Manual, DC auto iris |
| B. Mount Type | C, CS |

2.05 OPERATION

A. Camera Title	Off/On (displays up to 54 characters)
B. Day & Night	Auto, Day, Night (software method)
C. Backlight Compensation	Off, BLC
D. Contrast Enhancement XDR (eXtended Dynamic Range)	Off, Low, Middle, High
E. Digital Noise Reduction	Motion adaptive 2D+3D noise filter (Off, Low, Middle, High, User)
F. Digital Image Stabilization	Off/On
G. Motion Detection	Off/On (4 programmable zones)
H. Privacy Masking	Off/On (12 polygonal programmable zones, 4 point polygonal method)
I. Sens-up (Frame Integration)	Off, Auto (2x ~ 512x)
J. Gain Control	AGC (Low, Middle, High)
K. White Balance	ATW1, ATW2, AWC, 3200K, 5600K
L. Electronic Shutter Speed	
1. NTSC	Off, Auto (1/100 ~ 1/10Ksec)
2. PAL	Off, Auto (1/120 ~ 1/10Ksec)
M. Digital Zoom	16x
N. Flip / Mirror	Off/On
O. Profile	Standard, ITS, Backlight, Day & Night, Gaming, Custom
P. PIP	Off/On
Q. Alarm I/O	Input 2ea, Output 2ea (Relay)

2.06 NETWORK PROTOCOL

A. Ethernet	RJ-45 (10/100Base-T)
B. Video Compression Format	H.264, MPEG-4, MJPEG
C. Resolution	
1. NTSC	704 x 480, 640 x 480, 352 x 240
2. PAL	704 x 576, 640 x 480, 352 x 288
D. Max. Framerate	
1. NTSC	30fps
2. PAL	25fps
E. Video Quality Adjustment	
1. H.264, MPEG-4	Compression level, Target bitrate level control
2. MJPEG	Quality level control
F. Bitrate Control Method	
1. H.264 and MPEG-4	CBR or VBR
2. MJPEG	VBR
G. Streaming Capability	Dual streaming (MPEG-4 + MJPEG or H.264 + MJPEG)
H. IP	IPv4, IPv6
I. Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1, v2c, v3(MIB-2), ARP, DNS, DDNS, ONVIF
J. Security	HTTPS(SSL) login authentication, Digest login authentication, User access log
K. Streaming Method	Unicast, Multicast
L. Max. User Access	10 users at Unicast mode
M. ONVIF Conformance	Yes
N. Webpage Language	English, French, German, Spanish, Italian, Chinese, and Korean
O. Web Viewer	
1. Supported OS	Windows XP, Windows Vista, Windows 7
2. Supported Browser	Internet Explorer 6.0 or higher
P. Central Management Software	NET-i viewer

2.07 ELECTRICAL

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|----------------|-----------------------------------|
| A. Voltage | 12V DC, 24V AC, PoE (IEEE802.3af) |
| B. Consumption | Maximum 7W |

2.08 ENVIRONMENTAL SPECIFICATIONS

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|--------------------------|------------------------------|
| A. Operating Temperature | -10°C ~ +50°C (14°F ~ 122°F) |
| B. Operating Humidity | 20% ~ 80% RH |

2.09 PHYSICAL SPECIFICATIONS

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|--------------|---|
| A. Dimension | 72 x 60 x 136.8mm (2.83 x 2.36 x 5.39") |
| B. Weight | 300g (0.66 lb) |
| C. Color | Silver |
| D. Case | Metal |

2.10 CERTIFICATIONS

- A. UL Listed
- B. UL Listed to Canadian safety standards
- C. CE mark
- D. FCC mark

2.11 WARRANTY

- A. 3 years, parts and labor.

2.12 ACCESSORIES

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|-----------------------|--|
| A. SLA-2810D | 1/3" CS-mount lens |
| B. SLA-2985D | 1/3" CS-mount varifocal lens |
| C. SLA-3580DN | 1/3" CS-mount day/night varifocal lens |
| D. SLA-550DA | 1/3" CS-mount varifocal lens |
| E. STB-4150V | Bracket for fixed camera |
| F. STH-500 | Indoor Housing for fixed box camera |
| G. STH-200 | Indoor Housing for fixed box camera |
| H. STB-400 | Indoor/Outdoor enclosure bracket,
use with STH-500 or STH-200 |
| I. SHB-4300H1 | Extreme weatherproof housing for fixed camera |
| J. SHB-4200/SHB-4200H | Indoor housing for fixed camera (H=with Heater) |