

SNB 5000 1/3" 1.3MEGAPIXEL HD 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.
- D. All systems and components shall be provided with a one-day turnaround repair express and 24-hour parts replacement. The repair and parts express shall be guaranteed by the manufacturer on warranty and nonwarranty items.

2.02 SNB 5000 1/3" 1.3MEGAPIXEL HD CAMERA

- A. The network camera shall offer 1.3M (1280 x 1024) resolution with 16:9 HD (720p) resolution allowing for a maximum of 30fps at HD (720p) resolution (and 22fps in SXGA)
- B. The camera shall provide video compression in H.264, MPEG-4 and MJPEG triple encoding.
- C. The camera shall support multiple streaming simultaneous, progressive scan, privacy masking, digital image stabilization, provide true day and night ICR, bi-directional audio support and intelligent video analytics. The camera shall be equipped with an SD memory slot for internal recording
- D. The camera shall provide a customizable on-screen display (OSD) which shall be available in English, French, Spanish, German, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish and Portuguese.

2.03 CAMERA

- | | |
|-----------------------------------|--------------------------------------|
| A. Type | Color |
| B. Imaging Device | 1.3 Megapixel Progressive Scan CMOS |
| C. Size | 1/3" |
| D. Scan | Progressive Scan |
| E. Pixels | |
| 1. Total | 1,384(H) x 1,076(V), 1.49M pixels |
| 2. Effective | 1,329(H) x 1,049(V), 1.39M pixels |
| F. Min. Illumination | |
| 1. Color, Sens off | 0.3 Lux (F1.2, 50IRE) |
| 2. Black/White, Sens off | 0.01 Lux (F1.2, 50 IRE) |
| G. Functions | |
| 1. Privacy mask | On, Off (12 programmable zones) |
| 2. Day and Night | Color, B/W, Auto (ICR) |
| 3. Backlight compensation | BLC, HLC, SSRR, Off |
| 4. Electronic shutter speed | Auto (1/30~30,000sec), A.FLK, Manual |
| 5. Gain Control | Low, Medium, High, Manual |
| 6. Sens-up (frame Integration) | Auto, Off (selectable up to 60x) |
| 7. 2D + 3D Noise Filter (SSNRIII) | On, Off (level adjustment) |

8. White Balance	ATW, AWC, Manual, Indoor, Outdoor
9. On Screen Display	Yes (camera titles support)
H. Video Output	VBS 1.0vp-p
I. S/N Ratio	50Db
J. Lens	
1. Drive Type	Manual, DC
2. Mount Type	CS, C
K. Power	
1. Power Requirement	Dual (12v DC / 24V AC), PoE
2. Consumption	Max. 6W
3. LED indicator	Yes

2.04 OPERATIONAL SPECIFICATIONS

A. Operating System	Embedded Linux
B. Network Board Hardware	
1. Flash Memory	128 Mbyte
2. RAM	256 Mbyte
3. Ethernet	RJ-45 (10/100 Base-T)
4. Video Out	VBS 1.0Vp-p
5. Audio	Line in / Line out
6. SD Memory Slot	Yes (SD, SDHC)
7. PoE	Yes (IEEE802.3af)
C. Alarm	1 input, 1 output (relay)
D. Video Compression	H.264, MPEG-4, MJPEG Multiple codec
E. Video Resolution	
2. SXGA	1280 x 1024
3. HD (16:9)	1280 x 720P
4. SVGA	800 x 600
5. VGA	640 x 480
6. QVGA	320 x 240
F. Video	
1. Max. Frame Rate	22 fps for SXGA 30 fps for HD, SVGA, VGA and QVGA
2. H.264 / MPEG-4 Quality	Compression: 5 ~ 100 (20 steps) Target bitrate (CBR mode only): 1 ~ 10 level
3. MJPEG Quality	1~20 Level
4. Bitrate Control	H.264 and MPEG-4: VBR / CBR MJPEG: VBR
5. Streaming	H.264, MPEG-4, MJPEG multiple streaming (Individual streaming simultaneously)
G. Audio	
1. Compression	G.711 u-law
2. Bi-Directional Communication	Yes
H. Motion Detection	Scene Change, Virtual Line, Enter/Exit, Appear/Disappear
I. Network Protocol	
1. IPv4	TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3 (MIB-2), ARP, DNS, DDNS, ONVIF
2. IPv6	TCP/IP, HTTP, HTTPS, SSL, DHCP
3. Streaming	Unicast, Multicast
4. Security	HTTPS (SSL) login authentication, Digest login authentication, IP address filtering, User access log
5. DDNS	Supporting Samsung DDNS and public DDNS services
6. Maximum user access	10 users in Unicast mode, 20 users in Multicast mode

J. Event management	
1. Alarm Input	Pre/Post alarm image buffering, Image recording: SD memory
2. Intelligent video detection	Event notification, Alarm out activation, E-mail notification
3. Schedule	JPEG image transfer: FTP, Image recording: SD memory
K. Web Browser Viewer	
1. Supported OS	Windows XP, Windows Vista, Windows 7
2. Supported Browser	Internet Explorer 6 or higher, Firefox, Chrome
3. PTZ Control	Digital PTZ based on mega pixel resolution
4. UI Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish and Portuguese
5. S/W Upgrade	Using web viewer UI
L. Video Player RTP/RTSP streaming	QuickTime, VLC player
M. Video Management Software	Samsung CMS, third-party application
N. Application	IP installer application for all Samsung IP devices
2.05	ENVIRONMENTAL SPECIFICATIONS
A. Operating Temperature	-40°C ~ +50°C -40°F ~ +122°F) (built-in fan/heater)
B. Operating Humidity	0% ~ 90% RH
2.06	PHYSICAL SPECIFICATIONS
A. Dimension	72 x 60 x 138.6mm (2.83" x 2.36" x 5.46")
B. Weight	438g (0.97 lb)
C. Color	Dark Gray
D. Case	Metal
2.07	CERTIFICATIONS
A. UL Listed	
B. UL Listed to Canadian safety standards	
C. CE mark	
D. FCC mark	
2.08	WARRANTY
A. 3 years, parts and labor.	