SNB 7004 3 MEGAPIXEL 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 7004 3 MEGAPIXEL NETWORK CAMERA

1. The camera shall be of a bodied type suitable for installation internally or within an external housing. The camera will accept CS or C mount lenses with a Direct Drive Auto Iris. The camera shall be ivory & black in appearance. A C mount adaptor will be included with the product.
2. The network camera shall feature up to 3 Mega Pixel resolution in a 16:9 format. 4:3 format shall also be available in smaller resolutions.
3. The camera should be capable of capturing and transmitting an image size of 1920 x 1080 at 60 images per second.

**2.03 CAMERA**

A. Imaging Device 1/ 2.8” PS Exmor 3.2M CMOS

B. Total Pixels 2,065(H) x 1,565(V)

C. Effective Pixels 2,065(H) x 1,553(V)

D. Scanning System Progressive

E. Min. Illumination

1. Color 0.1 Lux (F1.2, 50IRE),

0.06Lux (F1.2, 30IRE)

2. B/W 0.01 Lux (F1.2, 50IRE)

0.006 Lux (F1.2, 30IRE)

F. S / N Ratio 50dB

G. Video Output CVBS : 1.0 Vp-p / 75Ω composite, 704x480(N), 704x576(P), for installation

- DIP connector type

2.04 LENS TYPE

A. Lens Type Simple Focus / DC Auto Iris, P-Iris

B. Mount Type C/CS

C. Focus Control Simple Focus / Manual

- Remote control via network ,Button control

(Manual, Simple Focus, Day&Night)

2.05 OPERATION

A. Camera Title Off / On (Displayed up to 45 characters)

B. Day & Night Auto (ICR) / Color / B/W / External / Schedule

C. Backlight Compensation Off, BLC, WDR

D. Wide Dynamic Range 120dB

E. Contrast Enhancement SSDR (Samsung Super Dynamic Range) (Off / On)

F. Digital Noise Reduction SSNRIII (2D + 3D noise filter) (Off / On)

G. Motion Detection Off / On (4ea 4 Points Polygonal zones)

H. Privacy Masking Off / On (32ea Rectangular zones)

I. Gain Control Off / Low / Middle / High

J. White Balance ATW / AWC / Manual / Indoor / Outdoor

K. Electronic Shutter Speed Minimum / Maximum / Anti flicker (1 ~ 1/12,000sec)

L. Flip / Mirror Off, On

M. Intelligent Video Analytics Tampering, Virtual Line, Enter/Exit, Appear / Disappear,

Audio Detection, Face Detection with metadata

N. Alarm I/O Input 1ea / Output 1ea

O. Remote Control Interface RS-485

P. RS-485 Protocol Samsung-T/E, Pelco-P/D, Sungjin, Panasonic, Honeywell, AD, Vicon, GE, Bosch

Q. Alarm Triggers Motion detection, Tampering, Audio Detection, Face Detection, Video Analytics, Alarm Input, Network Disconnection

R. Alarm Events File upload via FTP and E-Mail Notification via E-Mail, local storage(SD/SDHC/SDXC) recording at Network disconnected & Event (Alarm Triggers) External output

S. Defog Auto/Manual/Off

T. Digital Image Stabilization Off / On

2.06 NETWORK PROTOCOL

A. Ethernet RJ-45 (10/100Base-T)

B. Video Compression Format H.264(MPEG-4 part 10/AVC), MJPEG

C. Resolution 2048 x 1536 / 1920x1080 / 1600x1200 / 1280x1024 / 1280x960 / 1280x720 / 1024x768 / 800x600 / 800x450 / 640x480 / 640x360 / 320x240 / 320x180

D. Max. Framerate

1. H.264 Max 30fps@2048x1536, Max 60fps at all resolutions

2. Motion JPEG Max. 10fps@2048 x 1536Max. 15fps@1920 x 1080,

1600 x 1200, 1280 x 1024, 1280 x 960, 1280 x 720,

1024 x 768Max. 30fps@800 x 600, 800 x 450, 640 x 480, 640 x 360, 320 x 240, 320 x 180

E. Smart Codec Manual mode (Area-based : 5ea), Face detection mode

F. Video Quality Adjustment

1. H.264 Compression level, Target bit rate level control

2. MJPEG Quality level control

G. Bitrate Control Method

1, H.264 CBR or VBR

2. MJPEG VBR

H. Streaming Capability Multiple Streaming (Up to 10 Profiles)

I. Audio In Selectable (Mic in / Line in / Built-in mic),

Supply voltage : 2.5V DC (4mA),

Input impedance : approx. 2K Ohm

J. Audio Out Line out (3.5mm mono jack), Max output level : 1 Vrms

K. Audio Compression Format G.711 u-law /G.726 Selectable

G.726 (ADPCM) 8KHz, G.711 8KHz

G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps

L. Audio Communication Bi-directional audio

M. IP IPv4, IPv6

N. 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

O. Security HTTPS(SSL) Login Authentication

Digest Login Authentication

IP Address Filtering

User access Log

802.1x Authentication

P. Streaming Method Unicast, Multicast

Q. Max. User Access 15 users at Unicast mode

R. Edge Storage micro SD/SDHC/SDXC

Motion images recorded in the SDXC/SDHC/SD memory card can be downloaded

S. Application Programming interface ONVIF profile S, SUNAPI (HTTP API) v2.0, SVNP 1.2

T. 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

U. Web Viewer

1. Supported OS Windows XP / VISTA / 7 / 8, MAC OS X 10.7

2. Supported Browser Microsoft Internet Explorer (Ver. 7~10),

Mozilla Firefox (Ver. 9~19),

Google Chrome (Ver. 15~25),

Apple Safari (Ver. 6.0.2(Mac OS X 10.8, 10.7 Only), 5.1.7)

\* Mac OS X Only

3. Central Management Software SmartViewer

**2.07 ELECTRICAL**

A. Voltage AC24V±10%, DC12V±10%,PoE(IEEE802.3af,Class3)

B. Consumption Max. 13.1W (AC 24V, 50~60Hz)

Max. 11.1W (DC 12V)

Max. 12.6W (PoE, Class3)

**2.08 ENVIRONMENTAL SPECIFICATIONS**

A. Operating Temperature -10°C ~ +55°C (14°F ~ 131°F)

B. Operating Humidity Less than 90% RH

**2.09 PHYSCIAL SPECIFICATIONS**

A. Dimension W73.1 x H66.6 x D147.8

B. Weight 430g(0.95lb)

C. Color FRONT (BLACK) , BODY (IVORY) /

FRONT(Aluminium), BODY(Plastic)

**2.10 CERTIFICATIONS**

A. CE mark

B. FCC mark

2.11 WARRANTY

A. 3 years, parts and labor.