SNP-3371 4CIF NETWORK PTZ 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

1. All equipment and materials used shall be standard components that are regularly manufactured and used in the manufacturer’s system.
2. All systems and components shall have been thoroughly tested and proven in actual use.
3. 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 SNP-3371 4CIF NETWORK PTZ DOME CAMERA

1. These cameras shall support multi-streaming technologies, transferring real-time high resolution images at 30 fps with video compression in H.264, MJPEG and MPEG-4 codec.
2. The camera shall provide3.5~129.5mm (37x) optical zoom with 16x digital zoom. It shall support PoE plus, SD memory, and bi-directional audio.
3. All operation and configuration menus shall be provided in English, Korean, Japanese,Chinese, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Dutch, Portuguese, Swedish, Danish, Thai, Romanian, Serbian, Croatian, Hungarian, and Greek.
4. The camera shall be of a dome type suitable for internal installation. The camera shall be ivory in appearance.
5. The camera shall feature a motorized pan and tilt mechanism capable of panning at 500°/s and tilt movement at 500°/s.
6. The camera should be capable of capturing an image size of 704x576 at 30 images per second.
7. The camera shall feature a day / night mode that incorporates an infrared cut filter removal mechanism for true color reproduction and the best possible low light performance.
8. The camera shall feature a 37x zoom lens with continuous and one shot autofocus functions.
9. The camera shall feature Wide Dynamic Range with a gain of 96db. This feature will work at 30 images per second in 2 mega pixel mode, or 20 images per second in 3 megapixel mode.
10. The camera shall feature a high performance 2D & 3D noise reduction that automatically adapts the type of technology used according to movement in the field of view. 2D noise reduction compares adjacent pixels while 3D technology compares the same pixel in the previous and subsequent images, giving a higher level of detail. When the camera detects movement in a region of the image it will apply 2D noise reduction to that area and 3D noise reduction to the remainder of the image.
11. The camera shall feature a backlight compensation technology that can be used to manually select an area of high brightness in the field of view and adjust the gain in that area.
12. The camera shall feature a highlight compensation function that automatically detects very bright areas of the image and changes them to a previously configured greyscale. This technology helps to reduce the flaring effect of bright lights such as a torch or car headlights.
13. The network camera shall provide video transmission in an open format with H.264 or MJPEG compression.
14. The network camera should be configurable through a built in web server that can be accessed via standard browsers including Internet Explorer, Firefox, Chrome & Safari.
15. The camera shall feature a line level audio input and output capable of duplex operation.
16. The cameras shall support a SDHC flash memory card for recording video footage on event, network loss or on a one second interval.
17. The camera shall support ONVIF architecture for operation with 3rd party systems. The camera shall be capable of simultaneously transmitting multiple video streams of different resolution, compression, frame-rate and compression settings.
    1. ELECTRICAL SPECIFICATIONS
18. Input Voltage 24V AC, PoE+ (IEEE802.3af)
19. Power Consumption, max. Max. 21W

**2.04 CAMERA**

A. Imaging Device 1/4” Vertical double density interline transfer CCD

B. Total Pixels (horizontal x vertical) 811(H) x 508(V)

C. Effective Pixels (horizontal x vertical) 768(H) x 494(V)

D. Scanning System Progressive(VPS on)(If WDR on, interlaced scan)

E. Min. Illumination

1. Color 0.7Lux (F1.6, 50IRE), 0.001Lux(Sens-up, 512x)

2. B/W 0.07Lux(F1.6, 50IRE), 0.0001Lux(Sens-up, 512x)

F. S / N ratio 52dB

G. Video Output CVBS:1.0 Vp-p

1. NTSC 704x480, for installation

2. PAL 704x576, for installation

* 1. **LENS**

A. Focus control AF / One-shot AF / Manual

B. Drive Type DC auto iris

C. Mount Type Board-in type

2.06 OPERATIONAL SPECIFICATION

A. Camera Title On, Off (displays up to 15 characters)

B. Day and Night Auto (ICR), Color, B/W

C. Backlight Compensation WDR, BLC, HLC, Off

D. Contrast Enhancement SSDR off, on

E. Digital Noise Reduction SSNR Off, On

F. Wide Dynamic Range 52dB

G. Motion Detection Yes

H. Privacy Masking On, Off (8 programmable zones)

I. Sens-up (Frame Integration) Off, Auto (2x ~ 512x)

J. Gain Control Off, Low, Medium, High, Manual

K. White Balance ATW AWC, Manual, Indoor, Outdoor

L. Electronic Shutter Speed ESC, A.FLK, Manual (1/60~1/120,000)

M. Flip/Mirror Off, On

N. Digital Zoom 16x

O. Intelligent Video Analytics Virtual line, Enter / Exit, Appear / Disappear

P. Alarm I/O Input 4ea / Output 2ea(relay).

**2.08 NETWORK**

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

B. Video Compression H.264,MJPEG, MJPEG

C. Resolution 704 x 480, 640 x 480, 352 x 240, 320 x 240

D. Max Frame rate 30fps at all resolutions.

E. Video Quality

1. H.264, MPEG-4 Compression level, Target bit rate level control

2. MJPEG Quality level control

F. Bitrate Control

1. H.264, MPEG-4 VBR or CBR

2. MJPEG VBR

G. Streaming Multiple, up to 10 profiles

H. IP IPv4, IPv6

I. Network 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

J. Security HTTPS (SSL) login authentication, Digest login   
 authentication, IP Address filtering, User access log,

802.1x authentication.

K. Streaming Method Unicast, Multicast

L. User Access 10 users at Unicast

M. Memory Slot SD/SDHC memory slot

N. ONVIF Conformance Yes

O. Webpage Language English, French, German, Spanish, Italian, Chinese,   
 Korean, Russian, Japanese, Swedish, Danish,   
 Portuguese, Turkish, Polish, Czech, Rumanian, Serbian,   
 Dutch, Croatian, Hungarian, and Greek

P. Web Viewer

1. Supported OS Windows XP, Windows Vista, Windows 7, MAC OS

2. Supported Browser Internet Explorer 6.0 or higher, Firefox, Chrome, Safari

Q. Central Management Software NET-i Viewer

**2.09 ENVIRONMENTAL SPECIFICATIONS**

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

B. Operating Humidity 20% ~ 80% RH

**2.10 PHYSCIAL SPECIFICATIONS**

A. Dimension Ø155.0 x 243.4mm (Ø6.1” X 9.58”)

B. Weight 2.2kg (4.85 lb)

C. Color Ivory

D. Material Plastic

**2.11 CERTIFICATIONS**

A. UL Listedo

B. UL Listed to Canadian safety standards

C. CE mark

D. FCC mark

2.12 WARRANTY

A. 3 years