

SND-7080 3MEGAPIXEL FULL HD NETWORK 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

- 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-7080 3MEGAPIXEL FULL HD NETWORK DOME CAMERA

- A. This network dome camera that shall provide up to 3M (2048x1536) resolution with full HD (1080p) resolution.
- B. The camera shall have 3 ~ 8.5mm motorized varifocal (2.8x) lens.
- C. The camera shall support simultaneous transmission of dual codec (H.264 and MJPEG), with smart codec (ROI encoding).
- D. The camera shall provide WDR in 2M mode.
- E. Models of this camera shall be capability of surface or flush mounting.
- F. The camera shall provide a customizable on-screen display (OSD) which shall be available in English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Romanian, Serbian, Dutch, Croatian, Hungarian, and Greek.

2.03 ELECTRICAL SPECIFICATIONS

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

2.04 CAMERA

- A. Imaging Device 1/2.8" 3M PS CMOS
- B. Total Pixels (horizontal x vertical) 2,144 x 1,588
- C. Effective Pixels (horizontal x vertical) 2,096 x 1,561
- D. Scanning System Progressive
- E. Min. Illumination
 - 1. Color 0.1Lux (F1.2, 50IRE), 0.017 Lux (Sens-up, 60x)
 - 2. Black/White 0.08Lux (F1.2, 50IRE), 0.001 Lux (Sens-up, 60x)
- F. SN Ratio 50dB
- G. Video Output CVBS: 1.0 Vp-p, 75 ohms composite
 - 1. NTSC 704x480, for installation
 - 2. PAL 704x576, for installation

2.05 LENS

- A. Focal Length (Zoom Ratio) 3~ 8.5mm (2.8x) motorized varifocal
- B. Aperture ratio, max. F1.2

C. Angular Field of View	H: 100°(Wide) ~ 35.3°(Tele) V: 74.6°(Wide) ~ 26°(Tele)
D. Min. Object Distance	0.5m (1.64ft)
E. Focus control	Remote control via network (Manual, One-shot AF)
F. Drive Type	DC auto iris
G. Mount Type	Board-in
2.06 PAN/TILT	
A. Pan Range	0° ~ 355°
B. Tilt Range	0° ~ 90°
C. Rotate Range	0° ~ 355°
2.07 OPERATIONAL SPECIFICATIONS	
A. Camera Title	Off, On (displays 15 characters)
B. Day and Night	Auto (ICR), Color, B/W, External B/W
C. Backlight Compensation	BLC, HLC, WDR, Off
D. Wide Dynamic Range	52dB (2M mode only)
E. Contrast Enhancement	SSDR (Off, On)
F. Digital Noise Reduction, SSNR/III 2D+3D noise filter	Off, Low, Middle, High, User
G. Digital Image Stabilization	Off, On
H. Motion Detection	Off, On (4 programmable zones)
I. Privacy Masking	Off, On (1 each, 4 point polygonal + 16 each rectangular zones)
J. Sens-up (Frame Integration)	Off, Auto (2x ~ 60x)
K. Gain Control	Off, Low, Medium, High)
L. White Balance	ATW AWC, Manual, Indoor, Outdoor
M. Electronic Shutter Speed	Auto, A.FLK, Manual (1/30~30,000sec)
N. Flip/Mirror	Off, On
O. Alarm I/O	Input, 1 each. Output, 1 each (relay)
2.08 NETWORK	
A. Ethernet	RJ-45 (10/100Base-T)
B. Video Compression	H.264, MJPEG
C. Resolution 3M	20fps max, all resolutions 800 x 600 ~ 320 x 180, 20fps 1280 x 1024 ~ 1600 x 1200, 15fps 1920 x 1080 ~ 2048 x 1536, 10fps
D. Resolution 2M	30fps max, all resolutions but 15fps if WDR is on 800 x 600 ~ 320 x 180, 30fps 1280 x 1024 ~ 1920 x 1080, 15fps
E. Max Framerate	20fps 30fps max but 15fps if WDR is on
F. Smart Codec	Area based method, Face detection method
G. Video Quality	Compression level, Target bitrate level control Quality level control
H. Bitrate Control	VBR or CBR VBR
I. Streaming	Multiple, up to 6 profiles
J. Audio I/O	Mic/ Line in, Line Out
K. Audio Compression Format	G.711 u-law

L. Audio Communication	Bi-directional audio
M. IP	IPv4, IPv6
N. 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,
O. Security	HTTPS (SSL) login authentication, Digest login authentication, IP Address filtering, User access log, 802.1x authentication
P. Streaming Method	Unicast, Multicast
Q. User Access	10 users at Unicast level
R. Memory Slot	SD/SDHC
S. ONVIF Conformance	No
T. Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Romanian, Serbian, Dutch, Croatian, Hungarian, and Greek
U. 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
V. Central Management Software	NET-i Viewer
2.09 ENVIRONMENTAL SPECIFICATIONS	
A. Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F)
B. Operating Humidity	20% ~ 80% RH
2.10 PHYSICAL SPECIFICATIONS	
A. Dimension	
1. SND-7080N/P	Ø133 x 129.4mm (Ø5.24" x 5.09")
2. SND-7080(F)N/P	Ø159 x 125mm (Ø6.3" x 4.92")
B. Weight	
1. SND-7080N/P	700g (1.54 lb)
2. SND-7080(F)N/P	800g (1.76 lb)
C. Color	Ivory
D. Case	Plastic
2.11 CERTIFICATIONS	
A. UL Listed	
B. UL Listed to Canadian safety standards	
C. CE mark	
D. FCC mark	
2.12 WARRANTY	
A. 3 years, parts and labor.	
2.13 MODELS	
A. SND-7080N/P	basic version for NTSC and PAL
B. SND-7080(F)N/P	basic version with flush mounting