

SND-5080 1/3" 1.3MEGAPIXEL 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.
- 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 SND-5080 1/3" 1.3MEGAPIXEL HD NETWORK DOME CAMERA

- A. The camera is a day/night vandal-resistant network dome camera that shall support 1.3M (1280 x 1024) resolution and 16:9 HD (720p) resolution support with 30fps at HD (720p) resolution (22fps at 1.3M in SXGA).
- A. The camera shall support simultaneous transmission of multiple codecs (H.264, MPEG-4, and MJPEG).
- B. The camera shall have 2.8 ~ 10mm megapixel varifocal (F1.2) lens and a memory slot for internal recording. The camera shall provide day and night function (through IR Cut Filter), progressive scan, intelligent video analytics, PoE (Power over Ethernet), bi-directional audio support and HTTPS security login support.
- D. The model of this camera shall be built with P66 vandal resistant housing, with a fan/heater suitable for outdoor installation, and the capability of surface or flush mounting.
- E. 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, and Portuguese.

2.03 CAMERA

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|--------------------------|--------------------------------------|
| 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 | 0.3Lux (F1.2, 50IRE) |
| 2. Black/White, Sens off | 0.01Lux (F1.2, 50IRE) |
| G. Functions | |
| 1. Privacy Masking | On, Off (12 programmable zones) |
| 2. Day and Night | Color, B/W, Auto (ICR) |

3. Backlight compensation	BLC, HLC, SSSDR, 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 title support)
H. Video Output	VBS 1.0vp-p
I. S/N Ratio	50Db
J. Lens	
1. Focal Length	2.8~ 10mm
2. Zoom ratio	3.6x
3. Aperture ratio	F1.2
4. Angular Field of View	H : 94.6°(Wide) ~ 28.8°(Tele) V : 68.4°(Wide) ~ 21.6°(Tele)
5. Drive Type	AI (DC)
6. Mount Type	Board type
K. Power	
1. Power Requirement	Dual (12V DC / 24V AC), PoE
2. Consumption	Max. 7W
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	
1. Compression	H.264, MPEG-4, MJPEG Multiple codec
2. Resolution SXGA	1280 x 1024
3. Resolution HD (16:9)	1280 x 720P
4. Resolution SVGA	800 x 600
5. Resolution VGA	640 x 480
6. Resolution QVGA	320 x 240
7. Max. Frame Rate	SXGA: 22 fps HD, SVGA, VGA, QVGA: 30 fps
8. H.264 / MPEG-4 Quality	Compression: 5 ~ 100 (20 steps) Target bitrate (CBR mode only): 1 ~ 10 level
9. MJPEG Quality	1~20 Level
10. Bitrate Control	H.264, MPEG-4: VBR, CBR MJPEG: VBR
11. Streaming	H.264, MPEG-4, MJPEG multiple streaming (Individual streaming simultaneously)
E. Audio	
1. Compression	G.711 u-law
2. Bi-Directional Communication	Yes
F. Intelligent Motion Detection	Scene change, Virtual line, Enter/Exit, Appear/Disappear

G. 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
H. User Access Level	
1. Administrator	Full control privilege
2. Operator	Live monitoring only
3. User	Configurable privilege individually
I. Event management	
1. Alarm Input	Pre/Post alarm image buffering, Image recording: SD memory
2. Intelligent video detection	Event notification, Alarm out activation, Email notification
3. Schedule	JPEG image transfer: FTP Image recording: SD memory
J. Web Browser Viewer	
1. Supported OS	Windows XP, Windows Vista, Windows 7, MAC OS
2. Supported Browser	Internet Explorer 6.0 or higher, Firefox, Chrome, Safari
3. Plug-in	MS SilverLight 4.0
4. PTZ Control	Digital PTZ based on mega pixel resolution
5. UI Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, and Portuguese
6. S/W Upgrade	Using web viewer UI
K. Video Player RTP/RTSP streaming	QuickTime, VLC player
L. Video Management Software	Samsung CMS, third-party application
M. Application	IP installer application for all Samsung IP devices
2.05 ENVIRONMENTAL SPECIFICATIONS	
A. Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F)
B. Operating Humidity	0% ~ 90% RH
2.06 PHYSICAL SPECIFICATIONS	
A. Dimension	
1. SND-5080	Ø133 x 129.5mm (Ø5.24" x 5.1")
2. SND-5080F	Ø160 x 125mm (Ø6.3" x 4.92")
B. Weight	
1. SND-5080	525g (1.16 lb)
2. SND-5080F	765g (1.69 lb)
C. Color	White
D. Case	Plastic
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.	