

SNZ-6320 2MEGAPIXEL FULL HD 32X NETWORK ZOOM 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 SNZ-6320 2MEGAPIXEL FULL HD 20X NETWORK ZOOM CAMERA

- A. This camera shall support at least 2M (1920x1080) resolution with 16:9 Full HD (1080p) resolution support.
- B. The camera shall support simultaneous transmission of multiple codec (H.264 and MJPEG).
- C. The camera shall provide 4.44~142.6mm (32x) optical zoom with 16x digital zoom.
- D. The camera shall support PoE plus, SD memory, and bi-directional audio.

2.03 ELECTRICAL SPECIFICATIONS

- | | |
|----------------------------|--------------------------|
| A. Input Voltage | 12V DC PoE (IEEE802.3at) |
| B. Power Consumption, max. | |
| 1. 12V DC | Max. 9W |
| 2. POE | Max. 10W |

2.04 VIDEO SPECIFICATIONS

- | | |
|---|---|
| A. Imaging Device | 1/2.8" 2.38M PS CMOS |
| B. Total Pixels (horizontal x vertical) | 1,952(H) x 1,116(H) 2.18M |
| C. Effective Pixels (horizontal x vertical) | 1,944(H) x 1,104(H) 2.14M |
| D. Scanning System | Progressive |
| E. Min. Illumination | |
| 1. Color | 0.3Lux (1/30sec, F1.6, 50IRE), |
| 2. B/W | 0.03Lux (1/30sec, F1.6, 50IRE) |
| F. S / N (Y signal) | 50dB |
| G. Video Output | CVBS : 1.0 Vpp / 75Ω composite, 720 x 480(N), 720 x 576(P), for installation DIP connector type |

2.05 LENS

- | | |
|------------------------------|---|
| A. Focal Length (Zoom ratio) | 4.44 ~ 142.6mm (32x) |
| B. Max. Aperture Ratio | F1.6 (Wide), F4.4 (Tele) |
| C. Min. Object Distance | 1.5m (4.92ft) |
| D. Angular Field of View | 62.8°(Wide) ~ 2.23°(Tele) (H)
36.80°(Wide) ~ 1.26°(Tele) (V) |
| E. Focus | Auto, Manual, One push |
| F. Lens Type | DC Auto Iris |

G. Mount type	Board-in
2.06 OPERATIONAL SPECIFICATIONS	
A. Camera Title	Off, On (displays up to 45 characters)
B. Day & Night	Auto (ICR), Color, B/W, External, Schedule
C. Backlight Compensation	BLC, Off
D. Wide Dynamic Range	120dB
E. Contrast Enhancement, SDDR (Samsung Super Dynamic Range)	Off, On
F. Digital Noise Reduction SSNR III (2D+3D noise filter)	Off, On
G. Digital Image Stabilization	Off, On
H. Defog	Off, Auto, Manual
I. Motion Detection	Off, On (4ea 4 points polygonal zones)
J. Privacy Masking	Off, On (32 zones with 2 points of rectangle)
K. Gain Control	Off, Low, Medium, High
L. White Balance	ATW, AWC, Manual, Indoor, Outdoor, Mercury
L. Electronic Shutter Speed	Minimum, Maximum, Anti flicker(2 ~ 1/12,000sec)
M. Digital Zoom	16x
N. Flip/Mirror	Off, On
O. Intelligent Video Analytics	Tampering, Virtual line, Enter / Exit, (Dis)Appear, Audio detection, Face detection
P. Alarm I/O	Input 1 each, Output 1 each (Relay)
Q. Remote Control Interface	RS-485/422
R. RS-485 Protocol	Samsung-T/E, Pelco-P/D, Panasonic, Honeywell, AD, Vicon, Bosch, GE
S. Alarm Triggers	Motion detection, Tampering, Audio detection, Face detecton, Video analytics, Alarm input, Network disconnection
T. Alarm Events	File upload via FTP and E-mail, Notification via E-mail, Local storage(SD/SDHC/SDXC) or NAS recording at Network disconnected & Event (Alarm Triggers), External output
2.07 NETWORK	
A. Ethernet	RJ-45 (10/100 Base-T)
B. Video Compression Format	H.264 (MPEG-4 part 10/AVC), MJPEG
C. Resolution	1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 450, 720 x 576, 640 x 480, 640 x 360, 320 x 240, 320 x 180
D. Max. Frame Rate	H.264 : Max. 60fps at all resolutions MJPEG : 1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768 : Max. 15fps 800 x 600, 800 x 450, 720 x 576, 640 x 480, 640 x 360, 320 x 240, 320 x 180 : Max. 30fps
E. Smart Codec	Manual mode (Area-based : 5ea), Face detection mode
F. Video Quality Adjustment	Compression Level, Target Bitrate Level control Quality Level Control
G. Bitrate Control Method	CBR or VBR
H. Streaming Capability	VBR
I. Audio In	Multiple Streaming (Up to 10 Profiles) Selectable (Mic in / Line in), Supply voltage : 2.5V DC (4mA), Input impedance : approx. 2K Ohm

J. Audio Out	Line out (3.5mm stereo mini 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), 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	10 users at Unicast Mode
R. Edge Storage	SD/SDHC/SDXC - motion Images recorded in the SD/SDHC/SDXC memory card can be downloaded.
S. Application Programming Interface	NAS (Network Attached Storage)
T. Webpage Language	ONVIF profile S, SUNAPI 2.0, SVNP 1.2 English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese,Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek, Finnish, Norwegian
U. Web Viewer	Supported OS : Windows XP / VISTA / 7 / 8 / 8.1, MAC OS X 10.7 / 10.8 Supported Browser : Microsoft Internet Explorer (Ver. 8 ~ 11), Mozilla Firefox (Ver. 9 ~ 19), Google Chrome (Ver. 15 ~ 32), Apple Safari (Ver. 6.0.2(Mac OS X 10.8, 10.7 only), 5.1.7) * Mac OS X only
V. Central Management	SmartViewer, SSM, Mobile viewer
2.08 ENVIRONMENTAL SPECIFICATIONS	
A. Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)
B. Operating Humidity	Less than 90% RH
C. Storage Temperature	-30°C ~ +60°C (-22°F ~ +140°F)
D. Storage Humidity	Less than 90% RH
2.09 MECHANICAL SPECIFICATIONS	
A. Dimension	72 x 59.9 x 135.4mm (2.83 x 2.36 x 5.33")
B. Weight	540g (1.19 lb)
C. Materials	Metal
D. Color	Dark Gray
2.10 CERTIFICATIONS	
A. FCC (Class A), UL/cUL Listed	
B. CE, UL/cUL Listed	
2.11 WARRANTY	
A. 3 years parts and service	