

ARCHITECT & ENGINEER SPECIFICATIONS
SECTION 16780
VIDEO SURVEILLANCE SYSTEMS

SNC-RZ30P High Resolution Pan/Tilt Zoom Camera with 10/100 Base T Ethernet

PART 2 PRODUCTS

2.01 CCTV / NETWORK CAMERA SPECIFICATIONS

A. GENERAL REQUIREMENTS:

1. The SNC-RZ30P shall be a network enabled, integrated pan/tilt zoom color camera. utilizing a 1/6 type 680,000 pixel SuperHAD™ interline transfer CCD. The camera shall have an analog video output producing better than 470 TV lines of horizontal resolution.
2. Network interface shall be via an 8-pin RJ-45 connector, 10 Base T /100 Base TX Ethernet.
3. The SNC-RZ30P shall utilize JPEG compression, baseline compliant YCbCr422. Compression levels shall be user selectable in 10 steps, ranging from 1/5 to 1/60 compression ratios, based on an image of 24bits per picture element (8bits each for R,G &B).
4. The SNC-RZ30P shall incorporate a built-in web server, such that standard web browsers Internet Explorer or Netscape Navigator can be used to view the camera view without need for special viewer software. Supported operating system shall be Windows 98, 98SE, NT4.0, Me, 2000 and XP. Minimum PC requirements shall be 500MHz, PIII Processor, with 128MB RAM supporting 1024X768 True Color display capability.
5. Internet Explorer browser shall be version 5.5 or 6.0; Netscape browser shall be version 4.7 or 6.0 w/ Java plug-in version 1.3.1_02, version 1.3.1_03, version 1.4.0, version 1.4.0_01
6. The SNC-RZ30P shall be capable of supporting up to 50 users simultaneously over the network.
7. There shall be up to 4 user level settings. Access to functions shall be determined as follows:

a. User level 1	Viewing only
b. User level 2	Pan/Tilt & preset control
c. User level 3	Trigger alarm outputs, capture images, FTP or Email image
d. User level 4	All functions (Administrator)
8. Maximum frame rate capability of the SNC-RZ30P over LAN shall be up to 30 frames per second on 640 X 480 capture size.

9. Image sizes shall be user selectable for the following:
 - i. 736X480
 - ii. 640 x 480
 - iii. 320 x 240
 - iv. 160 x 120
10. The minimum slow shutter setting shall be ¼ second.
11. The SNC-RZ30P shall have Color and B/W mode capability. The switching between modes shall be accomplished automatically by sensing the luminance level, by time schedule, or manually by the administrator.
On B/W mode, the IR cut filter shall move away from the CCD imager, allowing the camera to fully utilize the sensitivity of the CCD in the near IR range, beyond 700 nm.
12. SNC-RZ30P shall have an integral 25X Optical auto focus zoom lens. The camera shall also feature digital zoom that extends the total zoom range to 300X.
13. SNC-RZ30P shall incorporate an integral DC servo type pan/tilt mechanism, allowing a total pan range of 340 degrees and a tilt range of -25 degrees to 90 degrees.
14. The camera shall be capable of 16 presets and 5 tour settings
15. Pan and tilt speeds on tour mode shall be in 20 steps.
16. User shall have the option of having the camera on tour all the time, or via one of 6 possible schedules. Each schedule shall contain the 7 days of the week with each own start and stop times for the tour. Manually controlling the pan/tilt cursor buttons on the GUI shall disable the tour automatically.
17. The SNC-RZ30P shall feature SteadyShot® mode, to allow compensation for slight vibrations. There shall be no loss of video resolution when this mode is activated.
18. The SNC-RZ30 shall incorporate proportional pan/tilt speed on zoom. The wider the angle of view, the faster the pan/tilt speed and, the higher the zoom ratio, the slower the pan/tilt speed on manual pan/tilt control.
19. The SNC-RZ30 shall also feature an Exclusive Control Mode, that shall allow multiple users (up to 20) to come in queue for control of the camera. Exclusive control mode shall be user settable for between 10 to 600 seconds.
20. The SNC-RZ30P shall also incorporate an Activity Detection circuit to detect changes in luminance levels in the designated area. Detection area shall rectangular, variable in size, set by the administrator. Camera shall have 9 levels of sensitivity.
21. The SNC-RZ30P shall have an 18 pin I/O interface located on rear of the base. There shall be 3 separate alarm input ports, and 2 Alarm output ports, an RS-232C port and an RS-485 port. Alarm input ports shall be opto-isolated.
22. The SNC-RZ30 shall support data transparency for either RS-232C or RS-485 ports.

23. Network protocols supported shall be TCP/IP, ARP, HTTP, ICMP, SMTP, FTP, DHCP and SNMP. Network security shall be via Password (basic authentication) and IP filtering.
24. The SNC-RZ30 shall be capable limiting the bandwidth on all ports from 0.5Mbps to 8Mbps.
24. The SNC-RZ30 shall have an internal image memory size of 8MB for alarm buffering.
25. The SNC-RZ30 shall be capable of pre and post alarm buffering.
26. There shall be 2 PCMCIA type II expansion slots. Manufacturer recommended MemoryStick® with PCMCIA memory stick adapter, Compact Flash as well as ATA HDD card shall be supported. Use of the PCMCIA shall be one at a time.
27. On alarm, user shall have the option of utilizing the onboard image memory area, or an attached PCMCIA memory device. Additionally, captured images on alarm may also be sent via FTP to a server. Moment of alarm image captured shall also be capable of being attached to an email, to an email address specified by the administrator.

B. CAMERA LENS SPECIFICATIONS:

1. Camera lens shall have an optical zoom range of 25X.
2. Focal length range shall be 2.4mm to 60mm, F1.6 (wide end) to F2.7 (tele end)
3. Horizontal viewing angle shall be 2.0 degrees to 45 degrees
4. Camera lens shall feature an inner focus type mechanism
5. Camera lens shall be auto-focus type, but can be switched to manual, which can be set by the administrator
6. Minimum object distance shall be 30mm on wide angle, and 800mm on maximum zoom

C. VIDEO-ELECTRICAL REQUIREMENTS

1. The SNC-RZ30 shall use an input voltage of either 12VDC.
2. The power connection shall be by means of a coaxial DC jack
3. The scanning system shall be 525 lines, 60 fields/30 frames, 2:1 interlace.
4. The video output of the SNC-RZ30 shall meet the EIA/NTSC standard.
5. The SNC-RZ30P color camera shall require a minimum scene illumination of:
Color: 3.0 lux at f1.6 (50 IRE, AE mode, slow shutter OFF)
B&W: 0.18 lx at F1.6 (50 IRE, AE mode, slow shutter OFF)

6. Camera synchronization shall be Internal
7. The composite video output shall be 1.0 V peak to peak @ 75 ohms, sync negative via a BNC connector.
8. The video signal to noise ratio shall be 48dB.
9. Video gain shall be Auto or manual with a range of -3 to +28dB
9. White balance shall be Auto, Indoor, Outdoor, One push AWB, ATW, or manual.
10. Power consumption shall be approx: 21.6W maximum w/ an ATA HDD card.

D: MECHANICAL REQUIREMENTS:

1. The pan/tilt mechanism shall incorporate direct drive gearless motors, suitable for either desktop or ceiling mount operation.
2. Full pan range of 340 degrees shall be achieved in 2 seconds, and full 115 degree tilt travel shall be 1.5 seconds.
3. The camera shall employ a motor driven mechanism that removes the IR cut filter position from the front of the CCD when it switches to B/W mode, On B/W mode, the IR cut filter shall move away from the CCD imager, allowing the camera to fully utilize the sensitivity of the CCD in the near IR range, beyond 700 nm.
4. The camera shall be capable of 16 presets. Additionally there shall be 5 tour settings that can be established tour, labeled A,B,C,D,&E. User shall have the choice of pan and tilt speeds, including stay time at the preset for each tour. Sequence of presets, choice of presets, shall be independent for each tour set by the user.
5. External alarm triggered presets shall be supported. Up to 3 external alarm inputs shall be supported via the I/O port, which shall be opto-isolated.
6. The SNC-RZ30 shall have 2 PCMCIA type II slots.
7. Video output connector shall be BNC type. Normal view shall be ceiling mounted operation only.
8. The camera mounting hole shall be ¼" -20, located on the base.
9. The camera dimensions shall be 5 5/8(W) x 7(H) x 5 3/4(D) inches, 140mm(W) x 175mm(H) x 144mm(D).
9. The camera shall weigh approximately 2 lb 10 oz (1.2kg).

E. ENVIRONMENTAL REQUIREMENTS

1. The operating temperature shall be 32°F to 104°F (0°C to +40°C)
2. Storage temperature shall be within -4°F to 140°F (-20°C to +60°C)

F. SUPPLIED ACCESSORIES

1. CD ROM containing User guide & setup program(1)
2. AC Adaptor w/ AC cord (1)
3. I/O interface connector (1)
4. Installation guide (1)
5. Ethernet cable, UTP category 5 cross over cable (1)
6. Ceiling brackets A & B
7. Wire rope (1)
8. Ferrite core (1)
9. Screws

