

ARCHITECT & ENGINEER SPECIFICATIONS
SECTION 16780
VIDEO SURVEILLANCE SYSTEMS

SNC-CS10/SNC-CS11 Progressive Scan MPEG4/JPEG Network Video Camera

PART 2 PRODUCTS

2.01 CCTV / NETWORK CAMERA SPECIFICATIONS

1. GENERAL REQUIREMENTS:

1. The SNC-CS10/SNC-CS11 shall be a CS mount, network enabled color camera, utilizing a 1/4 type Progressive Scan CCD with primary RGB color filter. The camera shall have an analog video output producing 400 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-CS10/SNC-CS11 shall utilize selectable MPEG4/JPEG compression. Compression levels shall be user selectable in 5 steps, ranging from 1/15 to 1/50 compression ratios, based on an image of 24bits per picture element (8bits each for R,G &B).
4. The SNC-CS10/SNC-CS11 shall incorporate a built-in web server, such that standard web browser Internet Explorer can be used to view the camera view without need for special viewer software. Supported operating system shall be Windows 2000 and XP. Minimum PC requirements shall be 1GHz, PIII Processor, with 256MB RAM or more supporting 1024X768 True Color display capability, with Ethernet 100 Base T.
5. Internet Explorer browser shall be version 6.0 or higher.
6. The SNC-CS11 shall be IEEE 802.3af Power Over Ethernet (PoE) compliant.
7. The SNC-CS10/SNC-CS11 shall be capable of supporting up to 20 users simultaneously on JPEG, and 10 users simultaneously on MPEG4, across the network.
8. There shall be 3 user level settings. Access to functions shall be determined as follows:
 - a. User level 1 Viewing only
 - b. User level 2 Capture image, change view size, digital zoom
 - c. User level 3 All functions - Administrator
9. Maximum frame rate capability of the SNC-CS10/SNC-CS11 over LAN shall be up to 18 frames per second on 640 X 480 capture size in JPEG, and up to 15 frames per second on 640 X 480 capture size in MPEG4.
10. User selectable image sizes shall be:
640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
11. The minimum slow shutter setting shall be 1 second, and a maximum of 1/10,000 sec.

12. The SNC-CS11 shall include a CS mount, 3 to 8mm F1.0 – F1.4 DC auto-iris type vari-focal lens, as standard accessory. User shall provide the appropriate lens necessary in their application for the SNC-CS10.
13. The SNC-CS10/SNC-CS11 shall have FTP server and client functionality. FTP client shall support passive mode ftp.
14. The SNC-CS10/SNC-CS11 shall be capable of pre and post alarm recording to its internal 8MB memory. FTP on alarm as well as periodic FTP shall be supported. Periodic ftp shall be a minimum of once per second up to once every 24 hours.
15. The SNC-CS10/SNC-CS11 shall also incorporate an Activity Detection circuit to detect changes in luminance levels in the designated area. There shall be a maximum of 4 detection areas, rectangular, and variable in size, sensitivity and threshold, set by the administrator.
16. The SNC-CS10/SNC-CS11 shall have a maximum gain (AGC) of 18dB.
17. The SNC-CS10/SNC-CS11 shall have a 4 pin I/O interface located on rear of the base. There shall be an alarm input port, and an Alarm/relay output.
18. The SNC-CS10/SNC-CS11 shall support the following Network protocols TCP/IP, UDP/IP, HTTP, ARP, ICMP, FTP, SMTP, DHCP,SNMP(MIB2), DNS, NTP, RTP/RTCP, PPPoE.
19. Network security shall be via Password (basic authentication) and IP filtering.
20. The SNC-CS10/SNC-CS11 shall have user configurable port settings.
21. The SNC-CS10/SNC-CS11 shall be capable of dynamic IP address change notification. It shall accomplish this via an email to a specified address when its IP address changes.
22. The SNC-CS10/SNC-CS11 shall be capable setting the bandwidth from 0.5Mbps to 4Mbps in JPEG and 64 kbps to 2 Mbps on MPEG4 .
23. The SNC-CS10/SNC-CS11 shall have an internal image memory size of 8MB for manual captures or alarm buffering.
24. The SNC-CS10/SNC-CS11 shall be capable of pre and post alarm buffering.
25. The SNC-CS11 shall support bi-directional audio capability.
26. The SNC-CS10 and SNC-CS11 shall support unicast or multicast in MPEG4
27. The SNC-CS10 and SNC-CS11 shall support TCP for both MPEG4 and JPEG compressions, as well as UDP transmission in MPEG4.

28. The SNC-CS10/SNC-CS11 shall have constant bit-rate algorithm to stabilize file size and network bandwidth.
29. The SNC-CS10/SNC-CS11 shall be capable of specifying up to 10 users or groups inclusive of administrator, allow or deny access to the camera ftp server, per user or group, and access to 3 levels per user or group.
30. The SNC-CS10/SNC-CS11 shall have Auto Rate Control capability,. When enabled, the camera shall automatically throttle down the refresh rate to avoid video and audio breakup when network congestion occurs.

B. CAMERA LENS SPECIFICATIONS (SNC-CS11 ONLY):

1. Camera lens supplied as standard accessory shall be a 3.0 to 8mm DC type auto iris lens, F1.0 to F1.4.
2. Horizontal viewing angle shall be 26.9 degrees to 66.6 degrees
3. Minimum object distance shall be 0.2 meter

C. VIDEO-ELECTRICAL REQUIREMENTS

1. The SNC-CS10/SNC-CS11 shall use an input power voltage of either AC24V or DC12V. The SNC-CS11 shall also be capable of being powered over the Ethernet, under IEEE 802.3af Power over Ethernet (PoE) standards.
2. The power connection shall be by means screw down terminals. A chassis ground connector shall be provided and located on the rear of the camera.
3. The signal system shall be user selectable between NTSC and PAL system, via a selector switch on the rear of the camera.
4. The SNC-CS10/SNC-CS11 color camera shall require a minimum scene illumination of: 1.7 lux at F1.0 (50 IRE, AGC ON, 1/30 sec shutter), or 1.0 lux at F1.0 (30 IRE, AGC ON, 1/30 sec shutter). On ¼ sec shutter, minimum illumination shall be: 0.23 lux @ F1.0 (50 IRE, AGC ON), or 0.14 lux @ F1.0 (30 IRE, AGC ON).
5. Camera synchronization shall be Internal.
6. The composite video output shall be 1.0 V peak to peak @ 75 ohms, sync negative via a BNC connector.
7. The video signal to noise ratio shall be 50dB (Normal AGC, Weight ON).
8. White balance shall be ATW/Tungsten bulb/Daylight/One-push auto/Manual
9. Power consumption shall be 5.4W maximum.

C. AUDIO – ELECTRICAL REQUIREMENTS (SNC-CS11 only)

1. The SNC-CS11 shall support G.726, and G.711 audio compression standards
2. The SNC-CS11 external MIC input shall be mini-jack type, monaural, 2.2kOhm, with 2.5V plug in power capability
3. The SNC-CS11 Audio output shall be mini-jack type, monaural, with maximum output level of 1 V rms.

D: MECHANICAL REQUIREMENTS:

1. SNC-CS10/SNC-CS11 camera lens mount shall be CS type.
2. Flange back adjustment for precise back focus shall be provided via a flange back adjustment dial without need for special tools
3. Input/Output Alarm or sensor input & output, shall be via a 4 pin push type spring lock connector.
4. The camera shall support 1 Alarm or sensor input, and 1 relay output via a 4 pin push type spring lock connector.
5. Relay output shall be rated at 1 Amp at less than 24V DC
6. Video output connector shall be BNC type.
7. SNC-CS11 shall have 2 mini-jacks, one for mic, and the other for active speaker.
8. Top or bottom camera mounting shall be accomplished via a removable plate with ¼" X 20 mounting screw hole. The height of the plate shall be 9mm, and shall be secured to the main camera body via 4 screws.
9. The camera dimensions (WxHxD) shall be no more than:
SNC-CS11 : 70mm x 57mm x 158mm (with lens)
SNC-CS10 : 70mm x 57mm x 116mm (without lens)
10. The SNC-CS10 shall weigh approximately 430 grams.
The SNC-CS11 with lens shall weigh approximately 475 grams.

E. ENVIRONMENTAL REQUIREMENTS

1. The operating temperature shall be -10°C to +50°C
2. Storage temperature shall be within -20°C to +60°C

F. SUPPLIED ACCESSORIES

1. CD ROM containing User guide, setup program SNC audio upload tool, SNC Video Player, and Custom homepage installer (1)
3. Installation manual (1)
4. Wire rope (1)
5. Screws
6. Warranty card