

ARCHITECT & ENGINEER SPECIFICATIONS
SECTION 16780
VIDEO SURVEILLANCE SYSTEMS

SNC-DF40P High Resolution Minidome Color Camera with 10/100 Base T Ethernet

PART 2 PRODUCTS

2.01 CCTV / NETWORK CAMERA SPECIFICATIONS

A. GENERAL REQUIREMENTS:

1. The SNC-DF40P shall be a CS mount, network enabled minidome color camera, utilizing a 1/4 type Super HAD™ interline transfer CCD. The camera shall have an analog video output producing 480 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-DF40P shall support JPEG and MPEG-4 compression. Compression levels are user selectable in 5 levels of compression ratios, based on an image of 24bits per picture element (8bits each for YUV).
4. The SNC- DF40P 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. The supported operating system is Windows® 2000 and Windows XP. Recommended PC requirements shall be 2 GHz, Pentium® IV Processor, with 512MB RAM or more supporting 1024X768 True Color display.
5. The SNC-DF40P is capable of supporting up to 20 users in the JPEG format or 10 users in the MPEG 4 format simultaneously over the network.
6. There shall be up to 3 user level/group settings. Access to functions shall be determined as follows:

| | |
|-----------------|---------------|
| a. User level 1 | Viewing only |
| b. User level 2 | Capture image |
| c. User level 3 | Administrator |

Administrator shall be able to assign manual FTP trigger to each user level

7. Maximum frame rate capability of the SNC-DF40P over LAN shall be up to 18 frames per second on 640 X 480 capture size on JPEG and 15 frames per second on MPEG4.
8. The SNC-DF40P has the capability of selecting either JPEG or MPEG-4 compression formats.
9. The SNC-DF70N shall have a throughput of :

| | |
|---------------------|---------------------|
| MPEG-4 | JPEG |
| 640 x 480 @ 15 fps, | 640 x 480 @ 18 fps, |
| 320 x 240 @ 30 fps, | 320 x 240 @ 30 fps, |

10. The SNC-DF40P shall be capable of supporting 6 selectable image capture sizes in either JPEG and MPEG4. The image sizes shall be:
640 x 480 (VGA); , 480 x 360; 384 x 288; 320 x 240; 256 x 192; and 160 x 120
11. The minimum slow shutter setting is 1/60 second, and a maximum of 1/10,000 sec
12. The SNC-DF40P shall have CCD Iris, a continuous variable speed shuttering capability of 1/60 sec. to 1/100,000 sec, to allow the use of manual iris under varying light conditions.
13. The SNC-DF40P shall have a 6 pin I/O pigtail interface located on rear of the base. There shall be an alarm input port, and 2 Alarm/relay output ports. The Alarm input port shall be opto-isolated.
14. The SNC-DF40P shall support the following Network protocols: TCP/IP, DNS, RTCP, UDP, RTP, ARP, HTTP, ICMP, SMTP, FTP, DHCP, NTP and SNMP (MIB2). Network security shall be via Password (basic authentication) and IP filtering.
15. The SNC-DF40P shall have both FTP client and server capabilities.
16. The SNC-DF40P shall have user configurable port settings.
17. The SNC-DF40P 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.
18. The SNC-DF40P shall be capable limiting the bandwidth from 64kbps to 2048 mbps in MPEG4 and 500 kbps to 4 mbps in JPEG..
19. The SNC-DF40P shall have an internal image memory size of 8MB for alarm buffering.
20. The SNC-DF40P shall support multi-casting in MPEG4 mode, and shall allow the user to utilize TCP or UDP protocols.
21. The SNC-DF40P shall be capable of pre and post alarm buffering.
22. The SNC-DF40P shall be capable of specifying up to 10 users/user groups, inclusive of administrator, and allow each user or group to have one of three levels of access, plus manual ftp for each.
23. The SNC-DF40P shall have built-in video motion detection on MPEG4, and shall be vector based.

B. CAMERA LENS SPECIFICATIONS:

1. Camera lens supplied as standard accessory shall be a 3.0 to 8mm DC type auto iris lens, F=1.0
2. Horizontal viewing angle shall be 66.6 degrees to 26.9 degrees

3. Minimum object distance shall be 200mm
4. The SNC-DF40P lens zoom and focus shall have locking screws.

C. VIDEO-ELECTRICAL REQUIREMENTS

1. The SNC-DF40P shall use an input power voltage of either AC24V or DC12V.
2. The power connection shall be by means screw down mini terminals connector.
3. The scanning system shall be 525 lines, 60 fieldes/30 frames, 2:1 interlace.
5. The video output of the SNC-DF40P shall meet the EIA/NTSC standard.
6. The SNC-DF40P color mini dome camera shall require a minimum scene illumination of: 0.8 lux at F1.0 (50 IRE, AGC ON)
7. Camera synchronization shall be Internal.
8. The SNC-DF40P shall have an ON/OFF selectable AGC, with a range of 18dB, through the settings menu.
9. The composite video output shall be 1.0 V peak to peak @ 75 ohms.
10. The video signal to noise ratio shall be 50dB (Normal AGC, Weight ON).
11. The SNC-DF470N shall employ a center weighted backlight compensation system
12. The SNC-DF70N shall employ Auto Tracking White (ATW) balance.
13. The Auto tracking white (ATW) balance range shall be 2,000 degrees Kelvin to 10,000 degrees Kelvin
14. The SNC-DF40P power requirements shall be AC24 V 50/60 Hz or DC12V.
15. The SNC-DF40P shall support Power Over Ethernet (PoE) 802.3af standard.
16. Power consumption for the SNC-DF40P shall be 7.5 watts maximum.

D: AUDIO REQUIREMENTS:

1. The SNC-DF40P shall support audio. Audio compression standards supported shall be G.711 (64kbps) & G.726 (40, 32, 24, 16Kbps).
2. The SNC-DF40P shall also support an external microphone in lieu of the built-in mic. External microphone connectivity shall be via a single channel stereo type mini- jack, supporting 2.4 VDC power at 4.7 ohm external microphone input.

3. The SNC-DF40P shall support an external active speaker via a mini-jack. Audio output shall be a maximum level of 1Vrms.
4. The SNC-DF40P shall be capable of bi-direction audio transmission.

E: MECHANICAL REQUIREMENTS:

1. SNC-DF40P camera lens mount shall be CS type.
2. Input/Output Alarm or sensor input & outputs, shall be via a 6 pin push type spring lock connector.
3. The camera shall support 1 optically isolated Alarm or sensor input, and 2 relay outputs via a 6 pin push type spring lock connector.
4. Relay outputs shall be rated at 1 Amp at less than 24V DC
5. Video output connector from the DF40P shall be a two (2) pin mini – jack screw down connector to a pigtail BNC type of connector.
6. A secondary analog monitor output shall be provided, accessible from the front after the SNC-DF40P is installed. Interface wiring to this secondary analog monitor output shall be provided by the manufacturer as a standard accessory
7. The camera dimensions shall be 4.9(W) x 5.2 (H) x 5 (D) inches, 124mm (W) x 132mm (H) x 126mm (D).
7. The camera shall weigh approximately 1 lb 10oz (750g).
8. The CCD/lens combination shall be user settable at ± 150 degrees Pan, and tilt of ± 75 degrees, lens leveling rotation of ± 150 degrees.
9. A black sleeve shall be incorporated such that only the lens viewing area is exposed to via the lower clear dome cover. This shall be secured by lockdown screws.
10. The angle of the CCD / lens assembly shall be fixed via a locking screw.
11. The lower dome shall have a lock screw to avoid being tampered with.

F. ENVIRONMENTAL REQUIREMENTS

1. The operating temperature shall be 14°F to 122°F (-10°C to +50°C)
2. Storage temperature shall be within -4°F to 140°F (-20°C to +60°C)

G. SYSTEM REQUIREMENTS

1. Operating system requirements: Microsoft Windows 2000/XP.
2. Recommended processor requirements: PentiumIV, 2 GHz or higher.

3. Minimum memory requirements : 512MB RAM
4. Web browser requirements: shall be Internet Explorer version 5.5 or 6.0.

H. SUPPLIED ACCESSORIES

1. CD ROM containing User guide & setup program(1)
2. Installation manual (1)
3. Wire rope (1)
4. Installation screws (2)
5. Dome cover (1)
6. Mini power connector
7. Warranty card

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SNC-DF40

