

ARCHITECT & ENGINEER SPECIFICATIONS  
SECTION 16780  
VIDEO SURVEILLANCE SYSTEMS

SNC-DF40N 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-DF40N is a CS mount, network enabled minidome color camera, utilizing a 1/4 type Super HAD™ interline transfer CCD. The camera has an analog video output producing 480 TV lines of horizontal resolution.
2. Network interface is via an 8-pin RJ-45 connector, 10 Base T /100 Base TX Ethernet.
3. The SNC-DF40N utilizes 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- DF40N incorporates 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. Minimum PC requirements shall be 1 GHz, Pentium® III Processor, with 256MB RAM or more supporting 1024X768 True Color display capability with Ethernet 100 Base T.
5. The SNC-DF40N 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 are up to 4 user level 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	Trigger relay outputs, capture images, FTP or Email image, & save image into memory
d. User level 4	All functions (Administrator)
7. Maximum frame rate capability of the SNC-DF40N over LAN is up to 18 frames per second on 640 X 480 capture size on JPEG and 15 frames per second on MPEG4.
8. The SNC-DF40N has the capability of selecting either JPEG or MPEG-4 compression formats.

9. The SNC-DF40N is capable of compressing MPEG-4 and JPEG at:

MPEG-4	JPEG
i. 640 x 480 @ 15 fps,	i. 640 x 480 @ 18 fps,
ii. 320 x 240 @ 30 fps,	ii. 320 x 240 @ 30 fps,

10. Image sizes are user selectable for the following:

MPEG-4	JPEG
i. 640 x 480	i. 640 x 480
ii. 320 x 240	ii. 320 x 240
iii. 160 x 120	iii. 160 x 120

11. The minimum slow shutter setting is 1/60 second, and a maximum of 1/100,000 sec

14. The SNC-DF40N shall have a 6 pin I/O 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.

15. The SNC-CS3N 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.

16. The SNC-DF40N shall have both FTP client and server capabilities.

17. The SNC-DF40N shall have user configurable port settings.

18. The SNC-DF40N 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.

19. The SNC-DF40N shall be capable limiting the bandwidth on all ports from 64kbps to 2048 mbps.

20. The SNC-DF40N shall have an internal image memory size of 8MB for alarm buffering.

21. The SNC-DF40N shall be capable of pre and post alarm buffering.

22. The SNC-DF40N shall be capable of specifying up to 10 users inclusive of administrator, and allow each user to have one of four levels of access.

#### 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

### C. VIDEO-ELECTRICAL REQUIREMENTS

1. The SNC-DF40N 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.
4. The video output of the SNC-DF40N shall meet the EIA/NTSC standard.
5. The SNC-DF40N color mini dome camera shall require a minimum scene illumination of: 0.8 lux at F1.0 (50 IRE, AGCTurbo ON)
6. Camera synchronization shall be Internal.
7. The SNC-DF40N shall be have Normal AGC of 18dB, and an additional 6dB for Turbo AGC for a total range of 24dB.
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. White balance shall be Auto, Indoor 1, Indoor 2, Outdoor, One push AWB
12. The SNC-DF40N power requirements shall be AC24 V 50/60 Hz or DC12V.
13. The SNC-DF40N shall support Power Over Ethernet (PoE) 802.3af standard.
14. Power consumption for the SNC-DF40N shall be 7.5 watts maximum.

### D: AUDIO REQUIREMENTS:

1. The SNC-DF40N shall support audio. Audio compression standards supported shall be G.711 (64kbps) & G.726 (40, 32, 24, 16Kbps).
2. The SNC-DF40N 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-DF40N shall support an external active speaker via a mini-jack. Audio output shall be a maximum level of 1Vrms.
4. The SNC-DF40N shall be capable of bi-direction audio transmission.

#### E: MECHANICAL REQUIREMENTS:

1. SNC-DF40N 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 DF40N shall be a two (2) pin mini – jack screw down connector to a pigtail BNC type of connector.
6. The camera dimensions shall be 4.8818(W) 5.1996 (H) 4.9606(D) inches, 124mm (W) x 132mm (H) x 126mm (D).
7. The camera shall weigh approximately 1lb 7oz (750g).
8. The CCD/lens combination shall be user settable at  $\pm 150$  degrees Pan, and tilt of  $\pm 75$  degrees, lens leveling rotation of  $\pm 150$  degrees.
9. A black sleeve shall be incorporated such that only the lens viewing area is exposed to via the lower clear dome cover.
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. Minimum processor requirements: Pentium III, 1 GHz or higher.
3. Minimum memory requirements : 256MB 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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