ARCHITECT & ENGINEER SPECIFICATIONS
SECTION 16780
VIDEO SURVEILLANCE SYSTEMS

SSC-DC193 Super HAD™ CCD Color CCTV Camera
SSC-DC393 Exwave HAD™ CCD Color CCTV Camera

PART 2 PRODUCTS

2.01 CCTV CAMERA SPECIFICATIONS

A. VIDEO - GENERAL REQUIREMENTS:

1.

1-1. The SSC-DC193 color camera shall utilize a 1/3" (4.8 x 3.6mm) Super HAD™ Interline Transfer Type CCD image sensor. The image sensing area shall be 4.8 x 3.6mm utilizing 510(H) x 492(V) active picture elements. The camera shall produce 330 lines horizontal resolution and a signal to noise ratio of better than 50dB (AGC OFF).

1-2. The SSC-DC393 color camera shall utilize a 1/3" (4.8 x 3.6mm) Exwave HAD™ Interline Transfer Type CCD image sensor. The image sensing area shall be 4.8 x 3.6mm utilizing 768(H) x 494(V) active picture elements. The camera shall produce 480 lines horizontal resolution and a signal to noise ratio of better than 50dB (AGC OFF). Smear level shall be -115dB.

2.

2-1. The SSC-DC193 camera shall require a minimum scene illumination of 0.3 lux at F1.2, 89.9% reflectance (30 IRE, AGC ON) or 0.6 lux at F1.2 or (50 IRE, AGC ON) or 3.0 lux at (100 IRE, AGC ON).

2-2. The SSC-DC393 camera shall require a minimum scene illumination of 0.35 lux at F1.2, 89.9% reflectance (30 IRE, AGC ON) or 0.7 lux at F1.2 or (50 IRE, AGC ON) or 3.5 lux at (100 IRE, AGC ON).

3. Video connection for the camera shall be via a "BNC" Connector located on the rear of the camera.

4. The camera shall have up to 24dB gain when the Turbo AGC is turned on. The Turbo Gain feature shall work in conjunction with the AGC (ON/OFF) that is switch selectable from the rear of the camera.

5. The SSC-DC193/SSC-DC393 color cameras shall have a wide range ATW (Automatic White Balance Mode). It shall adjust the white balance automatically in response to the lighting conditions in order that the proper white balance can be obtained. The color temperature compensation range shall from 2,000°K to 10,000°K which permits the camera to be used under a variety of illuminants such as under high-pressure sodium vapor light.

6. The cameras shall be equipped with a 4-pin auto iris connector to work with both DC and Video servo lenses. When used with a DC servo lens, the output signal level is adjustable.

7. The SSC-DC193/SSC-DC393 cameras shall DSP (Digital Signal Processing) LSI (Large Scale Integration) technology to ensure that the cameras will deliver not only versatile functionality but also high stability and reliability.

B. VIDEO-ELECTRICAL REQUIREMENTS

1. The SSC-DC193/SS-DC393 shall use an input voltage of either 12VDC ±10% or 24VAC±10% as a power source with auto sensing between the two power modes.

2. The power connection shall be by means of a screw terminal strip to connect to an external power supply of 24VAC or 12VDC, a ground connection shall also be provided on the back of the camera.

3. The scanning system shall be 525 lines, 60 fields/30 frames, 2:1 interlace.

4. The SSC-DC193/SSC-DC393 color camera shall meet the NTSC Standard.

5. Camera synchronization shall be switch selectable Internal or AC (60Hz) line lock, with vertical phase adjustment capability of ± 90 degrees.

6. The camera shall automatically switch to internal sync mode when 12VDC is applied, regardless of the sync switch setting.

7. The composite video output shall be 1.0V peak to peak @ 75 ohms, sync negative on a BNC connector.

8. The signal to noise ratio shall be better than 50dB (AGC OFF, Weight ON).

9. Easy camera set-up shall be done by the means of switches as well as two potentiometers, one to compensate for Video Level and the other for Vertical Phase adjustment. The switches and the potentiometers shall be located on the rear of the camera.

10. The SSC-DC193/SSC-DC393 color cameras shall have a switchable ON/OFF back light compensation circuit (BLC). When switched on the camera shall automatically compensate for backlit objects to obtain an adequate picture. Proper exposure shall be achieved by adjusting the level control when DC auto iris lenses are used. Backlight compensation shall be center weighted.

11. The SSC-DC193/SSC-DC393 color cameras shall have a CCD Iris™ function to automatically adjust the shutter speed depending on the amount of incident light. This shall enable the camera to continuously control the exposure by electronically adjusting the CCD shutter speed in the range from 1/60 of a second to 1/100,000 of a second. This feature allows inexpensive manual iris lenses to be used with this camera. This feature shall be switchable (ON/OFF) from the rear of the camera.

12. The SSC-DC193/SSC-DC393 cameras shall support both DC and Video servo lenses. When used with a DC servo lens, the potentiometer shall determine the amount of exposure by controlling the iris opening of the lens.

13. The camera shall be capable of operating on 60Hz power systems.

14. Power consumption shall be Approx: 3.5 watts for the SSC-DC193 color camera.

15. Power consumption shall be Approx: 3.7 watts for the SSC-DC393 color camera.

C: MECHANICAL REQUIREMENTS:

1. The SSC-DC193/SSC-DC393 shall incorporate a CS Lens mount (C-Mount lens can be used by mounting a 5mm adapter).

2. A level adjustment potentiometer shall be available to adjust for optimum exposure, when using a DC type (Non ALC) auto iris lens.

3. The camera shall incorporate a back-focus adjustment mechanism to allow for fine focus adjustments.

4. The camera mounting hole shall be a ¼”-20 located on the top and bottom of the camera for ease of installation.

5. The camera size must be very compact in order to be installed in space-limited locations or camera housings.

6. Dimensions of the camera shall be 2 3/8”(W) x 2 ¼” (H) x 4 3/4” (D)
60mm (W) x 54mm (H) x 120mm (D).

7. The camera shall weigh approximately 13 ounces (360grams)

D. ENVIRONMENTAL REQUIREMENTS

1. The operating temperature shall be 14°F to 122°F (-10°C to +50°C)
2. The operating humidity shall be 20% to 80% non-condensing.
3. Storage temperature must not be less than -40°F or greater than 140°F
4. Storage humidity shall be 20% to 95% non-condensing.

E. SUPPLIED ACCESSORIES

1. Operating Instructions (1)
2. Lens Cap (1)

F. REFERENCES

1. SSC-DC193/SSC-DC393 :UL Listed 2044
   : FCC/IC Verified Class "B"