ARCHITECT & ENGINEER SPECIFICATIONS
SECTION 16780
VIDEO SURVEILLANCE SYSTEMS

SSC-M183 Super HAD™ CCD Black and White CCTV Camera
SSC-M383 Exwave HAD™ CCD Black and White CCTV Camera

PART 2 PRODUCTS

2.01 CCTV CAMERA SPECIFICATIONS

A. VIDEO GENERAL REQUIREMENTS:

1.

1-1 The SSC-M183 Black and White 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 380 lines horizontal resolution and a signal to noise ratio of 50dB (AGC OFF).

1-2 The SSC-M383 Black and white 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 570 lines horizontal resolution and a signal to noise ratio of 50dB (AGC OFF). Smear level shall be -115dB.

2.

2-1 The SSC-M183 camera shall require a minimum scene illumination of 0.03 lux at F1.2, 89.9% reflectance (30 IRE, AGC ON) or 0.06 lux at F1.2 or (50 IRE, AGC ON) or 0.25lux F1.2 at (100 IRE, AGC ON).

2-2 The SSC-M383camera shall require a minimum scene illumination of 0.04 lux at F1.2, 89.9% reflectance (30 IRE, AGC ON) or 0.07 lux at F1.2 or (50 IRE, AGC ON) or 0.3lux 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) switch that is selectable from the rear of the camera.

5. 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 shall be adjustable.

B. VIDEO-ELECTRICAL REQUIREMENTS

1. The SSC-M183/SSC-M383 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-M183/SSC-M383 monochrome camera shall meet the EIA Standard.

5. Camera synchronization shall be switch selectable Internal or External 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 for ease of camera setup.

10. The camera shall have a switchable ON/OFF back light compensation circuit (BLC). When switched on the camera shall automatically compensate back lit 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-M183 monochrome camera and the SSC-M383 monochrome camera 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-M183/SSC-M383 cameras shall support both DC and Video servo lenses. When used with a DC servo lens, the level 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: 2.5 watts for the SSC-M183 monochrome camera.

15. Power consumption shall be Approx: 2.6 watts for the SSC-M383 monochrome camera.

C. MECHANICAL REQUIREMENTS

1. The SSC-M183/SSC-M383 shall incorporate a CS Lens mount ("C Mount" lenses 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-M183/SSC-M383	:UL Listed 2044
	: FCC/IC Verified Class "B"