

ARCHITECT & ENGINEER SPECIFICATIONS  
SECTION 16780  
VIDEO SURVEILLANCE SYSTEMS

SSC-MX13V/SSC-CX13V  
Fully Integrated 2 x Vari-focal Cameras

PART 2 PRODUCTS

2.01 CCTV CAMERA SPECIFICATIONS

A. VIDEO GENERAL REQUIREMENTS:

1. SSC-CX13V  
The colour camera shall utilize a high resolution ¼” (3.6 x 2.7mm) Super HAD™ Interline Transfer Type CCD image sensor. The image sensing area shall be 3.6 x 2.7mm utilizing 768h x 494v active picture elements. The camera shall produce 480 lines horizontal resolution.
1. SSC-MX13V  
The monochrome camera shall utilize a high resolution ¼” (3.6 x 2.7mm) Super HAD™ Interline Transfer Type CCD image sensor. The image sensing area shall be 3.6 x 2.7mm utilizing 768h x 494v active picture elements. The camera shall produce 570 lines horizontal resolution.
2. SSC-CX13V  
The camera shall require a minimum scene illumination of 1.1 lux at F1.4, 89.9% reflectance (30 IRE, AGC ON, Turbo On) or 1.8 lux at F1.4 or (50 IRE, AGC On, Turbo On)
2. SSC-MX13V  
The camera shall require a minimum scene illumination of 0.2 lux at F1.4, 89.9% reflectance (30 IRE, AGC ON, Turbo On) or 0.3 lux at F1.4 or (50 IRE, AGC On, Turbo 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 an 18dB AGC range, plus an additional 6dB on Turbo gain mode. The Turbo Gain feature shall be dip switch on/off selectable from the rear of the camera.
5. The colour camera model SSC-CX13V shall utilize Digital Signal Processing (DSP) to provide high stability and reliability.

## B. OPTICAL REQUIREMENTS:

1. The SSC-CX13V and the SSC-MX13V shall incorporate an integrated ¼” type auto-iris, 2.8 to 5.8mm Vari-focal lens.
2. The minimum object distance shall be 0.2m (0.66ft).
3. A level adjustment potentiometer shall be available to adjust the iris for optimum exposure.
4. The optical system shall permit the camera to cover a large angle of view from 75.9° to 37.8° Horizontal by 56.4° to 28.4° Vertical.
5. The lens Zoom and Focus levers shall have a lens lever cover.

## C. VIDEO-ELECTRICAL REQUIREMENTS

1. The SSC-MX13V and the SSC-CX13V shall use an input voltage of either 12VDC (10.8 to 15.6V) or 24VAC 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 same terminal strip.
3. The scanning system shall be 525 lines, 60 fields/30 frames, 2:1 interlace.
4. The SSC-MX13V monochrome camera shall meet the EIA Standard.
5. The SSC-CX13V colour camera shall fully meet the NTSC standard.
6. The camera shall employ Auto Tracing White (ATW) balance control on the colour model SSC-CX13V.
7. The Auto tracing white (ATW) balance range shall be 2,200 degrees Kelvin to 10,000 degrees Kelvin on the colour model SSC-CX13V.
8. Camera synchronization shall be dip switch selectable Internal or External AC (60Hz) line lock, with vertical phase adjustment capability of ± 90 degrees.
9. The camera shall automatically switch to internal sync mode when 12VDC is applied, regardless of the sync mode setting.
10. The composite video output shall be 1.0V peak to peak @ 75 ohms, sync negative on a BNC connector.

11. The signal to noise ratio shall be more than 50dB (AGC OFF, Weight ON).
12. Easy camera set-up shall be done by the means of DIP Switches as well as two potentiometers, one to compensate for video level and the other for Vertical Phase adjustment. The DIP Switches and the potentiometers shall be located on the rear of the camera.
13. The camera shall employ a center weighted backlight compensation system, when used with a DC type auto iris lens. The level of compensation shall be manually adjustable via a potentiometer located on the rear of the camera. This function shall be enabled using an ON/OFF DIP Switch located on the rear of the camera.
13. The camera shall be capable of operating on either 50Hz or 60Hz power systems.
14. Power consumption shall be Approx: 1.8 watts for the SSC-MX13V monochrome camera and Approx: 3.0 watts for the SSC-CX13V Colour camera.

#### D. MECHANICAL REQUIREMENTS

1. The lens shall have lock down lever screws for both Zoom and Focus.
2. The Zoom lens shall be integrated with the camera in order that flange back adjustment will not be required.
3. The camera mounting hole shall be a  $\frac{1}{4}$ "-20 located on the top and bottom of the camera for ease of installation.
4. The camera size must be very compact in order to be installed in space-limited locations as well as being stylish to meet with retail and commercial requirements.
5. An access lid shall cover the lens Zoom and Focus controls, located on the top side of the camera.
6. Dimensions of the camera shall be  $2\frac{3}{8}$ "(W) x  $2\frac{1}{4}$ " (H) x  $5\frac{1}{4}$ " (D) 58mm (W) x 54mm (H) x 133mm (D).
7. The camera shall weigh approximately 8.8 ounces (250grams)

## E. 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.

## F. SUPPLIED ACCESSORIES

1. Operating Instructions.
2. Limited Warranty (SSC-MX13V/SSC-CX13V)

## G. REGULATIONS

1. SSC-MX13V :UL Listed 2044  
FCC/IC Verified Class “B”  
  
:EN50081-1+EN50130-4 (EMC)  
AS4251.1 (Emission) + AS4252.1 (Immunity)

## H. Mean Time Before Failure Rate

1. MTBF for the SSC-MX13V shall be 20 years.
2. MTBF for the SSC-CX13V shall be 18.4 years.