

ARCHITECT & ENGINEER SPECIFICATIONS  
SECTION 16780  
VIDEO SURVEILLANCE SYSTEMS

SSC-CD73V/SSC-CD73VT  
Ruggedized MiniDome Day/Night Color Camera

PART 2 PRODUCTS

2.01 CCTV CAMERA SPECIFICATIONS

A. VIDEO GENERAL REQUIREMENTS:

1. SSC-CD73V & SSC-CD73VT  
The color camera shall utilize a high resolution 1/4" (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 768(h) x 494(v) active picture elements. The camera shall produce 480 lines horizontal resolution.
2. SSC-CD73V & SSC-CD73VT  
The camera shall require a minimum scene illumination of 0.4 lux at F1.0, 89.9% reflectance (30 IRE, AGC ON, Turbo On) or 0.8 lux at F1.0 or (50 IRE, AGC On, Turbo On) in color mode; and 0.1 lux at F1.0, 89.9% reflectance (30 IRE, AGC ON, Turbo On) or 0.2 lux at F1.0 or (50 IRE, AGC On, Turbo On) in B/W mode.
3. SSC-CD73V  
Video connection for the camera shall be via a pigtail with a "BNC" Connector.
3. SSC-CD73V/T  
Video connection for the camera shall be via a pigtail with a mating screw terminal connector. Transmission of video shall be via an NVT™ twisted pair Video transmission module built in to the main camera body.
4. The camera shall have Turbo AGC gain mode of 24dB. The Turbo Gain feature shall be dip switch on/off selectable.
5. The SSC-CD73V & SSC-CD73VT shall utilize Digital Signal Processing (DSP) to provide high stability and reliability.
6. The camera shall be a CS mount type, IP66 rated, impact resistant, in a MiniDome type configuration. It shall come equipped with a 3 – 8mm F1.0 DC auto iris, IR compensated lens.

7. The camera's main body shall be constructed of aluminum diecast, and the lower clear dome shall be 3mm polycarbonate.
8. The camera body shall have 3/4" thread for direct connection with a conduit pipe. Located on the rear of the camera, as well as on the side of the main body. A removeable threaded cap shall be used to seal the unused conduit access.
9. A secondary video output shall be located on the main camera body, to allow for easy adjustment of the field of view and focus. The secondary video output shall be via a 2 pin connector. A pigtail 2-pin mating connector with a BNC shall be included as standard accessory.
10. The SSC-CD73V & SSC-CD73VT shall be capable of being externally triggered to change from color to b/w modes. The cameras shall also be capable of switching between color and b/w modes automatically.
11. The camera's Auto switchover from color to b/w and vice versa, shall be selectable for short, or long via dip switch selection.
12. The SSC-CD73V and SSC-CD73VT shall have a continuously variable shuttering capability, a feature called CCD Iris mode. CCD iris mode shall be from 1/60 to 1/100,000 sec, and shall be used only with manual iris, CS mount lenses.

#### B. OPTICAL REQUIREMENTS:

1. The SSC-CD73V shall incorporate a CS mount, IR compensated auto-iris, 3 to 8mm Vari-focal lens. Maximum aperture shall be F1.0
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 66.6° to 27° Horizontal by 49.3° to 20.2° Vertical.
5. The lens Zoom and Focus levers shall have a locking screws.

#### C. VIDEO-ELECTRICAL REQUIREMENTS

1. The SSC-CD73V/VT shall use an input voltage of either 12VDC  $\pm 10\%$  or 24VAC  $\pm 10\%$  for power.

2. The power connection shall be by means of a 2 pin mating pressure fit screw terminals, to connect to an external power supply of 24VAC or 12VDC.
3. The scanning system shall be 525 lines, 60 fields/30 frames, 2:1 interlace.
4. The SSC-CD73V & SSC-CD73VT signal system shall be NTSC standard.
6. The camera shall employ Auto Tracking White (ATW) balance
7. The Auto Tracking white (ATW) balance range shall be 2,000 degrees Kelvin to 10,000 degrees Kelvin.
8. Camera synchronization shall be dip switch selectable Internal or External AC (60Hz) line lock, with vertical phase adjustment capability of  $\pm 90$  degrees.
9. The camera shall automatically switch to internal sync mode when 12VDC is applied, regardless of the sync mode setting.
10. a) The SSC-CD73V composite video output shall be 1.0V peak to peak @ 75 ohms, sync negative via the pigtail BNC connector.
10. b) The SSC-CD73VT video output shall be through an active type NVT™ module for twisted pair video transmission. Active or passive twisted pair receivers, shall be installer or owner furnished.
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.
13. The SSC-CD73V and SSC-CD73VT shall employ a center weighted backlight compensation system, and shall be dip switch on/off selectable.
14. The SSC-CD73V and SSC-CD73VT power consumption shall be approx: 3.3 watts

#### D. MECHANICAL REQUIREMENTS

1. The lens shall have lock down lever screws for both Zoom and Focus.
2. The IR compensated 3 – 8mm auto iris vari-focal lens shall be preinstalled by the manufacturer.

3. The camera shall come with a slotted, plastic black insert, installed onto the main camera section, such that the lens will only be visible when viewed through that slot.
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. The main body of the camera shall be of aluminum die cast construction
6. The lower dome cover shall be made of 3mm polycarbonate material.
7. The camera shall be IP66 rated.
8. The camera body shall have ¾" thread for direct connection with a conduit pipe, located on the rear of the camera, as well as on the side of the main body. A removeable threaded cap shall be used to seal the unused conduit access.
9. The diameter of the lower polycarbonate clear dome shall be approximately 91mm
10. The dome cover shall have a removeable safety rubber ring attached to the main body for safety.
11. The lower dome cover shall be attached to the main body via security tamper resistant Torx screws.
12. The main camera body shall be capable of being rotated ±150 degrees, and secured via lock down screws.
13. The CCD & lens assembly shall be capable of being rotated ±150 degrees based on the center the lens axis, and the tilt capability of this assembly shall be ±75 degrees.
14. Dimensions of the camera shall be 5-7/8" (W) x 4-3/8" (H) x 5-7/8" (D)  
147mm (W) x 111mm (H) x 148mm (D).
15. The camera shall weigh approximately 2 pound 10 ounces (1,150grams)

#### E. ENVIRONMENTAL REQUIREMENTS

1. The operating temperature shall be -4°F to 122°F (-20°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 (-40 to +60C)
4. Storage humidity shall be 20% to 95% non-condensing.

#### F. SUPPLIED ACCESSORIES

1. Operating Instructions.
2. TP4 x 30 4 screws
3. Monitor cable for secondary video
4. Security Torx driver
5. External control terminal connector

#### G. OPTIONAL ACCESSORY: Flush Mount Kit

#### H. REGULATIONS

1. UL Listed 2044
2. FCC/IC Verified Class "B"

#### I. Mean Time Before Failure Rate

1. MTBF shall be 11 years

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