

ARCHITECT & ENGINEER SPECIFICATIONS
SECTION 16780
VIDEO SURVEILLANCE SYSTEMS

SSC-E453 CCD High Resolution Color Camera

PART 2 PRODUCTS

2.01 CCTV CAMERA SPECIFICATIONS

VIDEO - GENERAL REQUIREMENTS:

1. The SSC-E453 color camera shall utilize a 1/3" type interline transfer CCD with SuperExwave™ Technology. The image sensing area shall be 4.8 x 3.6mm. The camera shall produce 540 lines horizontal resolution and a signal to noise ratio of better than 50dB (AGC OFF, Weight ON).
2. The SSC-E453 color camera shall require a minimum scene illumination of:
Color: 0.3 lx at F1.2 (30 IRE, AGC ON, Turbo Mode)
0.55 lx at F1.2 (50 IRE, AGC ON, Turbo Mode)
1.8 lx at F1.2 (100 IRE, AGC ON, Turbo Mode)
3. The SSC-E453 color 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 to 1/100,000 of a second.
4. The SSC-E453 shall have Normal & Turbo AGC modes, or turned off. Normal AGC shall provide up to 18dB of gain. Turbo AGC shall provide an additional 6dB gain when enabled, allowing a total AGC range of up to 24dB.
5. The SSC-E453 shall have a choice of two ATW modes ATW & ATW Pro. ATW & Pro are feature that automatically adjusts the camera white balance to adapt to changes in lighting conditions. SSC-E470 Series provides an extremely wide ATW& Pro range of 2,000 K to 10,000 K, allowing adjustment-free operation under a variety of light conditions
6. The SSC-E453 shall also be equipped with a 4-pin auto iris lens connector to work with an DC lens.
7. The SSC-E453 camera shall include a DSP (Digital Signal Processor) LSI technology which delivers not only versatile functionality but also high stability and reliability. This Digital Signal Processing circuit shall provide Video Noise Reduction especially in low light level conditions.
8. Video connection shall be via a "BNC" Connector located on the rear of the camera.

9. The SSC-E453 shall employ the SuperExwave™ Technology with a Dynamic range of 50dB.
10. The SSC-E453 shall have Variable Gamma function, to allow fine tuning the video response to various lighting conditions. It shall have 4 Scene selections in addition to a default gamma setting. Scene 4 setting shall have a gamma value of 1 to 4.
11. The SSC-E453 color 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 to 1/100,000 of a second.

B. VIDEO-ELECTRICAL REQUIREMENTS

1. The SSC-E453 shall use an input voltage of either 12VDC \pm 10% or 24 VAC \pm 10% @ 50 Hz .Power source with auto sensing between the 2 modes.
2. The power connection shall be by means of a screw type terminal strip to connect to an external power supply of 12 VDC or 24 VAC, a ground connection shall also be provided on the back of the camera.
3. The SSC-E453 scanning lines shall be 625 lines, 50 fieldes/25 frames, 2:1 interlace.
4. The SSC-E453 shall meet the EIA/NTSC standard.
5. The SSC-E453 synchronization shall be switch selectable for Internal or AC (60Hz) line lock, with vertical phase adjustment \pm 90°.
6. The camera shall automatically switch to internal sync mode when 12VDC is applied, regardless of the sync selection switch position.
7. The composite video output shall be 1.0 V peak to peak @ 75 ohms, sync negative via a BNC connector.
8. The SSC- E453 signal to noise ratio shall be 50dB (AGC Off, Weight On).
9. The SSC- E453 color camera shall have a wide range ATW (Automatic Tracing White Balance) mode from 2000°K to 10,000°K. It shall adjust the white balance automatically in response to the conditions in order that pictures with an appropriate color balance to be obtained.
10. The SSC- E453 shall also have conventional backlight compensation. Users shall be able to select Center Spot or average weighting to obtain adequate back light compensation.
11. Power requirements for the SSC-E 453 shall be 12VDC \pm 10% or 24VAC \pm 10% at 60Hz.

12. Power consumption for the SSC-E 453 shall be approx: 4.5W at 24VAC.

C: MECHANICAL REQUIREMENTS:

1. The SSC- E453 shall incorporate a CS Lens mount (C-Mount lens can be used by mounting a 5mm adapter).
2. The SSC- E453 shall incorporate a thumbwheel back-focus adjustment mechanism to allow for fine focus adjustments.
4. The camera mounting hole for the SSC-E 453 shall be ¼” –20, on a removable mounting plate that can be positioned at either the top or the bottom of the camera.
5. The SSC- E453 dimensions *without* the front and rear covers shall be 2 3/8(W) x 2 1/4(H) x 5 2/3 (D) inches, 60mm(W) x 53mm(H) x 118mm(D).
5. The SSC- E453 dimensions with the front and rear covers shall be 2 3/8(W) x 2 1/4(H) x 9 1/2 (D) inches, 60mm(W) x 53mm(H) x 240mm(D)
7. The SSC- E453 shall weigh approximately 1 lb 1 oz (370g).

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

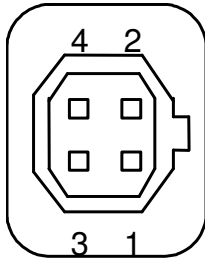
1. Operating Instructions (1)
2. Menu Operations (1)
3. Lens Mount Cap (1)
4. Front cover (1)
5. Rear Cover (1)

F. REFERENCES

1. SSC-E453

:UL Listed 2044

: FCC/IC Verified Class “B”

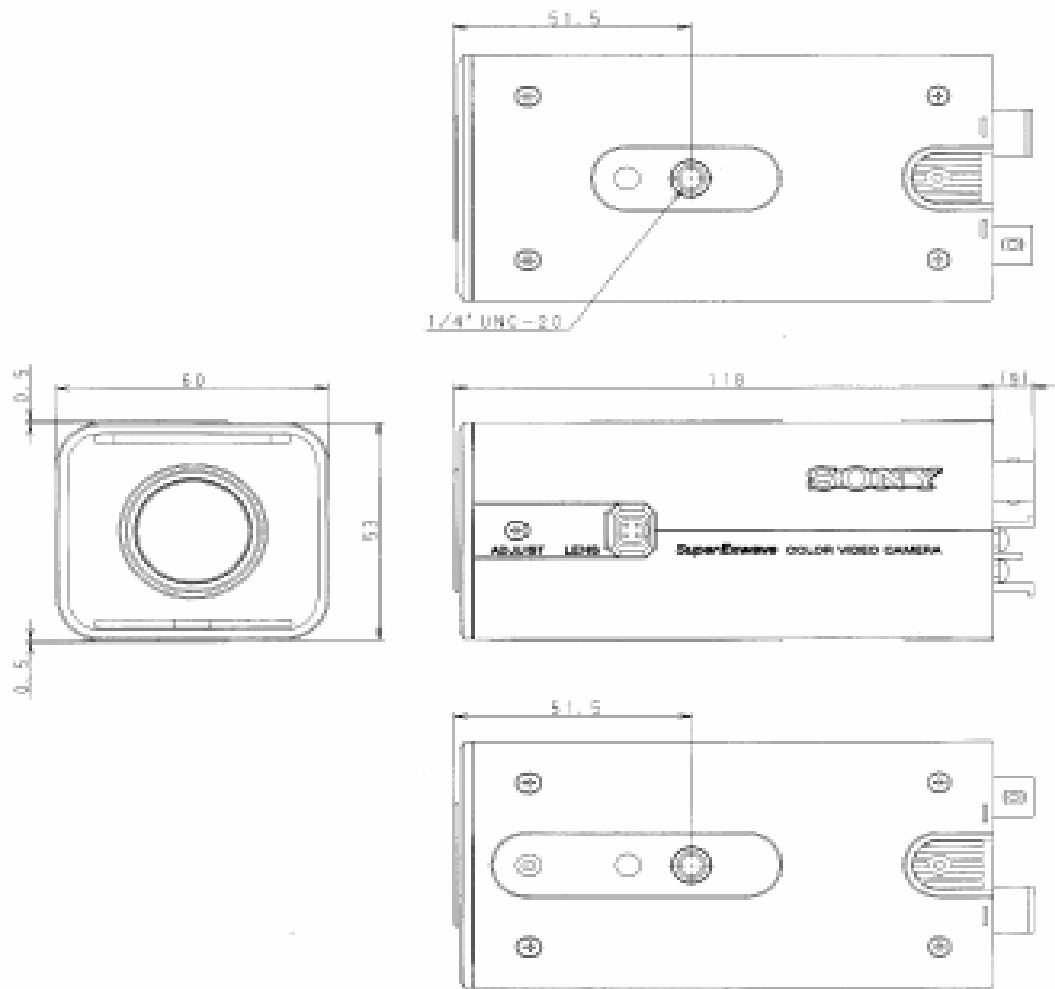


Pin	DC servo
1	Control (-)
2	Control (+)
3	Drive (+)
4	Drive (-) (GND)

[SSC-E453/E453P]



SSC-E453's



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