

# SONY®

NTSC

Color Video Camera

## SSC-E453



## FEATURES

### Superb Picture Quality

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#### State-of-the-Art SuperExwave™ CCD Technology

The SSC-E453 camera incorporates a newly developed 1/3-type CCD with SuperExwave technology that achieves extremely high sensitivity levels and produces high-quality images. This CCD imager provides a minimum illumination of 0.55 lx at F1.2, enabling the camera to capture clear and detailed images even under low light conditions. What's more, the camera reproduces images with a high picture quality of 380,000 pixels and an excellent S/N ratio of more than 50 dB.

#### Innovative DSP Technology

Unlike conventional DSPs, the newly developed DSP technology employed in the camera increases the horizontal resolution attainable by the CCD. Thanks to a combination of this DSP technology and the SuperExwave CCD technology, the camera offers a high horizontal resolution of 540 TV lines, providing amazingly clear and detailed images.

### Slim and Stylish Design

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This slim and lightweight color camera can easily be installed in places where space is limited and where installation was previously difficult for larger cameras. A stylish rear panel cover and transparent lens cap comes standard so the camera will not detract from the natural decor of the room in which it is installed.



### Wide Auto Tracing White (ATW) Range

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ATW is a feature that automatically adjusts the camera's white balance to adapt to changing light conditions. The SSC-E453 camera provides an extremely wide ATW range of 2,000 K to 10,000 K, allowing adjustment-free operation under a variety of light conditions. Users can choose from two modes: ATW Pro and ATW. ATW Pro mode is particularly suited to applications where the operator needs to see objects as they appear to the eye. This ensures that a precise color image is always obtained.



## Sony SSC-E453 Color Video Camera – Offering Outstanding Picture Quality at an Affordable Price!

*The SSC-E453 Color Video Camera is the latest addition to the Sony surveillance video camera lineup. Incorporating a newly developed 1/3-type CCD with SuperExwave™ technology allows the camera to achieve extremely high sensitivity levels, and utilizing Sony's newly developed Digital Signal Processing (DSP) technology, allows the camera to attain a high horizontal resolution of 540 TV lines.*

*The newly developed CCD imager offers a minimum illumination of 0.55 lx and an excellent signal-to-noise (S/N) ratio of more than 50 dB, allowing the camera to reproduce amazingly clear and detailed images.*

*With excellent picture quality, sophisticated features, and a stylish new design, the SSC-E453 camera is the ideal solution for a wide range of surveillance applications in locations such as retail stores, offices, banks, and more!*

## Turbo AGC

The SSC-E453 camera is equipped with an advanced Turbo AGC function. This allows the user to boost camera gain up to 24 dB, enabling viewers of the image to distinguish the subject more easily - even if it is shot in low light. The AGC mode is selectable between OFF and TURBO.

## Back-Light Compensation (BLC)

Unwanted backlighting can often cause the subject matter of an image to be cast into shadow. The BLC function incorporated in the camera automatically compensates for such conditions and allows the subject to be more visible.

## CCD IRIS

The CCD IRIS function allows the use of a manual iris lens instead of a more costly automatic iris lens. As the image brightness increases, the camera adjusts the exposure by automatically reducing the CCD photo sensor's exposure time (charge accumulation time). This is achieved by using the CCD electronic shutter, which has a range of 1/60 (NTSC) to 1/100,000 second.

## Other Convenient Features

### DC-Servo Lens Connection Capability

The SSC-E453 camera supports the widely available DC-servo lenses.

### CS-Mount

The camera is equipped with a CS-mount, which provides compatibility with industry-standard CS-mount lenses.

### AC 24 V/DC 12 V Operation

The SSC-E453 accepts both AC 24 V and DC 12 V power sources, and will automatically switch to the appropriate mode upon receiving power.

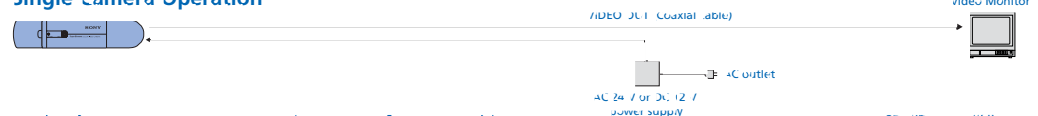
### Sync System

The sync system of the camera can be switched between internal lock and AC-line lock. When AC-line lock is selected, the V-phase can be adjusted by  $\pm 90^\circ$ .

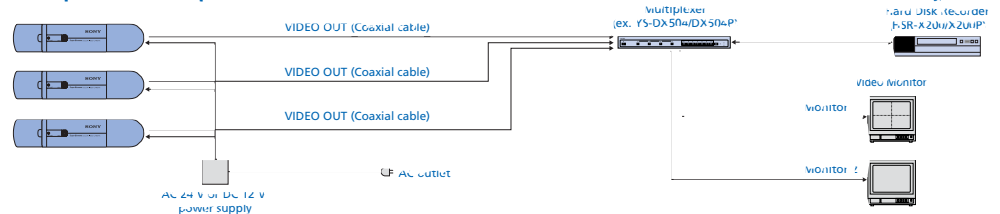
## SYSTEM CONFIGURATIONS

### SSC-E453

#### Single Camera Operation

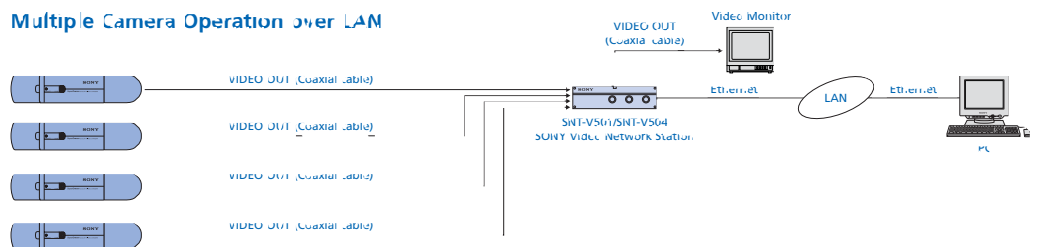


#### Multiple Camera Operation (In case of Line Lock)



### SSC-E453

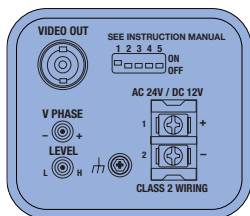
#### Multiple Camera Operation over LAN



# SPECIFICATIONS

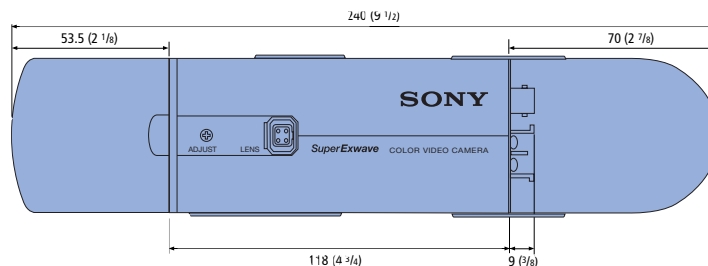
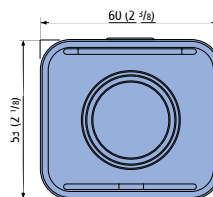
SSC-E453	
Image device	1/3 type Interline Transfer CCD with SuperExwave
Picture elements (H x V)	768 x 494 (NTSC)
Sensing area	1/3 type format (4.8 x 3.6 mm)
Signal system	NTSC standard
Sync system	INT/Line Lock
Horizontal resolution	540 TV lines
Lens mount	CS
Minimum illumination	0.55 lx at F1.2 (50 IRE, AGC ON, Turbo mode)
AGC	TURBO/OFF switchable
CCD IRIS	ON/OFF switchable, 1/60 to 1/100,000 s
White Balance (WB)	Auto White Balance Pro (ATW Pro) /Auto Wite Balance (ATW)
Back-Light Compensation (BLC)	ON/OFF switchable
S/N ratio	More than 50 dB (AGC OFF, WEIGHT ON)
Video out	BNC, 1.0 Vp-p, 75 $\Omega$ , sync negative
Auto iris lens	DC servo
Operating temperature	-10 °C to 50 °C (14 °F to 122 °F)
Storage temperature	-40 °C to 60 °C (-40 °F to 140 °F)
Power requirements	AC 24 V $\pm$ 10%, 60 Hz or DC 12 V $\pm$ 10%
Power consumption	3.5 W
Weight	12 oz (360 g) 15 oz (440 g)* including front and rear covers
Dimensions (W x H x D)	2 3/8 x 2 1/8 x 4 3/4 inches (60 x 53 x 118 mm) 2 3/8 x 2 1/8 x 9 1/2 inches (60 x 53 x 240 mm)* including front and rear covers
Supplied accessories	Lens mount cap (1), Operating instructions (1), Front cover (1), Rear cover (1), Screws (2)

## Rear View



SSC-E453

## Dimensions



Unit: mm (inches)

# SONY®

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