

## SSC-E478P

CS-Mount Color High Resolution type with Day/  
Night function.



Sony introduces new SSC-E470 series camera in order to further strengthen Sony's analogue security camera line-up. This new SSC-E470 series is included in the category called CS-Mount Color High Resolution type with Day/Night function which is expected to show CAGR of sixteen percent between year 2002 and 2006 in terms of world wide quantity base.

## Features

### Day/Night function

SSC-E470 Series features a "Day/Night" capability, which provides optimized sensitivity in both day and night shooting applications. Under low light condition, SSC-E470 series automatically switches the infrared cut filter to a clear dummy filter and changes to B/W mode. This results in minimum illumination of 0.05 lx which is a drastic improvement from 0.55 lx in color mode. The refractive index of the dummy filter is adjusted to visible spectrum, considering that there is some visible light even under dark circumstances in the majority of cases. Therefore, if only infrared illuminator is available as light source, the object will become out of focus with standard lens. There are some near-infrared compatible lenses available from several manufacturers including Cosmocar to avoid it.

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

SSC-E470 Series 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 cameras to capture clear and detailed images even under low light conditions. What's more, these cameras reproduce images with a high picture quality of 380,000 pixels (SSC-E473) / 440,000 pixels (SSC-E473P/E478P) and have an excellent S/N ratio of more than 50 dB.

### Newly developed innovative DSP Technology

Unlike conventional DSP's, the newly developed DSP technology employed in these cameras increases the horizontal resolution attainable by the CCD. Thanks to a combination of this DSP technology and the SuperExwave CCD technology, these cameras offer a high-horizontal resolution of 540 TV lines, providing amazingly clear and detailed images.

### Slim and stylish design

These slim and lightweight color cameras 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 come as standard on these cameras so that they will not detract from the natural décor of the room in which they are installed.

## Benefits

### A Wide Auto Tracing White Range - ATW Pro & ATW

ATW is a feature that automatically adjusts the camera white balance to adapt to changes in lighting conditions. SSC-E470 Series 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 ideal when the lighting condition changes frequently and is particularly suited to applications where the operator needs to see objects as they appear to the eye. This ensures that the precise color image is always obtained.

### Back Light Compensation

Unwanted backlighting can often cause the subject matter of the image to be cast into shadows. The BLC function incorporated in these cameras automatically compensates for such conditions and allows the subject to be more visible. The BLC mode is selectable between OFF and ON.

### CCD IRIS

SSC-E470 Series have CCD-IRIS function to automatically adjust the shutter speed depending on the amount of incident light. As the image brightness increases, the camera adjusts the exposure by automatically reducing the CCD photo sensor's exposure time (charge accumulation time). The CCD-IRIS enables to continuously control the exposure by electronically adjusting the shutter speed in the range from 1/60(NTSC) / 1/50(PAL) second to 1/100,000

second. Manual iris lens with CCD-IRIS function can be used instead of more costly automatic iris lens.

**Turbo AGC**

The SSC-E470 Series cameras are 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.

## Technical Specifications

Image device	1/3type CCD with SuperEx-wave™ technology
Sensing area	4.8 x 3.6mm
Video Signal	1.0 V peak to peak at 75 Ohms, sync negative

Horizontal Resolution	540 TV lines
Signal/Noise	Better than 50 dB (AGC OFF, Weight ON)
Auto Iris Lens	DC servo