



SSC-DC593P SSC-DC598P

DAY/NIGHT VIDEO CAMERAS

In a constantly changing surveillance environment, the need for security remains greater than ever. These new surveillance cameras from Sony, incorporating a unique range of functions and new technology, ensure that sharp and clear images can be monitored and recorded around the clock.



The SSC-DC593P/DC598P colour video cameras are the latest additions to the Sony surveillance camera line up, specifically designed for challenging lighting conditions as well as day/night surveillance applications. Incorporating newly developed DynaView technology from Sony these cameras offer an extremely wide dynamic range allowing for the capture of clear images - even in strong backlight situations. In addition, an automatic "Day/Night" function enables the camera to capture high quality colour images during the day and more sensitive Black & White (B&W) images at night. Outstanding picture quality and sophisticated features make the SSC-DC593P/DC598P cameras the logical choice for challenging 24-hour surveillance applications.

Features

- Wide dynamic range with DynaView™
- High resolution and high sensitivity
- Day/night function
- CCD IRIS
- Wide Auto Tracing White (ATW) range
- Turbo Automatic Gain Control (AGC)
- Privacy zone masking
- Activity detection function
- Remote camera control
- User-friendly operation

CHANGING



THE WAY

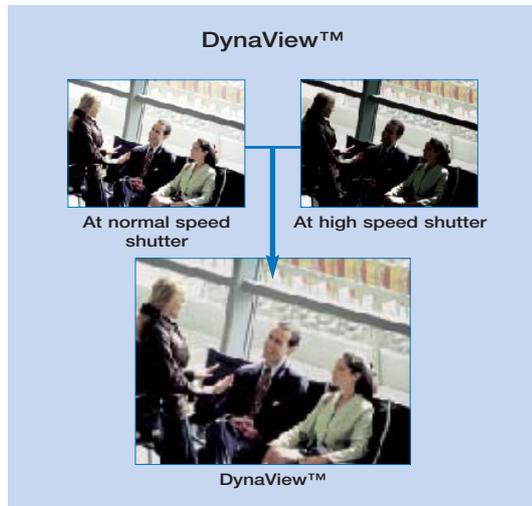


BUSINESS



COMMUNICATES

Superior Picture Quality



Wide dynamic range with DynaView™

Incorporating newly developed DynaView technology, these cameras achieve an incredible dynamic range that is 128 times wider than conventional cameras, so users can capture clear images even in extreme high-contrast lighting environments.

In DynaView mode, the camera captures the same image twice – firstly with a normal shutter speed, and then with a high shutter speed. Newly developed LSI technology then combines the dark areas captured at normal shutter speed with the bright areas captured at high shutter speed and creates one image – an extremely high-contrast picture that would be unattainable with a conventional camera.

DynaView technology also means more powerful Backlight Compensation (BLC). While conventional BLC can result in over exposure of the image background, DynaView reduces this to a minimum by using a high shutter speed for the background, which consequently provides optimum exposure for both the subject and the background.

High resolution and high sensitivity

The SSC-DC593P/DC598P cameras incorporate a 1/3 type IT (Interline Transfer) CCD with 440,000 pixels – a feature that contributes to their superb picture quality and high sensitivity. These cameras provide a high resolution of 480 TV lines and can operate under a minimum illumination of 0.07 lux in B&W mode or 0.8 lux in Colour mode.



Day/Night function

The SSC-DC593P/DC598P cameras offer a “Day/Night” function to provide optimised sensitivity in both day and night shooting scenarios. As the scene illumination reduces and the acquired image darkens, the infrared filter is automatically removed and the camera switches to B&W mode, requiring a minimum illumination of only 0.07 lux. For even greater flexibility, the Day/Night function can also be initiated on demand through an external control signal.

CCD IRIS

The CCD IRIS function allows the use of a manual iris lens instead of a more costly automatic iris lens. As image brightness increases, the camera adjusts 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 1/50 to 1/10,000 per second.

Wide Auto Tracing White (ATW) range

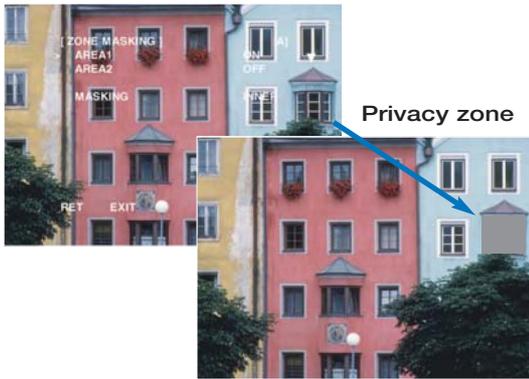
Automatic Tracing White is a feature that automatically adjusts the white balance in accordance with any changes in lighting conditions, ensuring that the appropriate colour balance of a picture is always obtained.

The SSC-DC593P/DC598P cameras provide an extremely wide Automatic Tracing White range (2,000 K to 10,000 K), allowing adjustment-free operation under a variety of light conditions. These cameras also feature pre-set colour temperature settings and user-defined manual settings.

Turbo AGC

These cameras incorporate an advanced Turbo AGC function which allows the user to boost camera gain to 24 dB. This enables the image to be more easily distinguished, even if it is shot in low light.

Advanced Features



Privacy zone masking

Unwanted or prohibited areas within an image can be masked. Up to two masking blocks can be freely selected in width and height. The masking areas are selectable from either the inside or the outside of the masking blocks.

Activity detection function

The activity detection function detects changes within up to three user-defined areas of the picture. When triggered, the camera superimposes a blinking ALARM indication on the video monitor and outputs an alarm trigger signal to external equipment. The on-screen, superimposed ALARM message lasts for 10 seconds, while the alarm trigger can be set at between 0.5 and 10 seconds.

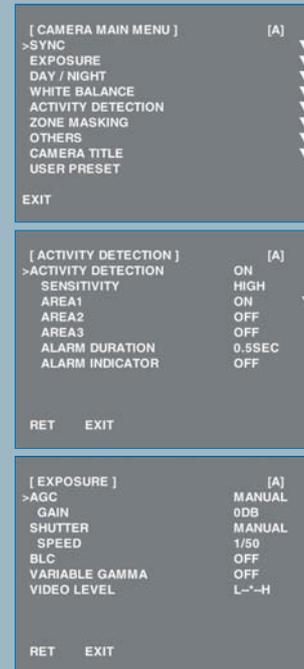
Remote camera control

The SSC-DC593P/DC598P cameras can be remotely controlled through the RS-485 serial interface for camera configuration and control of advanced features such as DynaView™ ON/OFF and Day/night mode switching.

User-friendly operation

- On-screen set up menu:
Camera settings can be made through the on-screen menu using the cursor keys on the side panel of the camera. Up to two customised settings can be stored in the memory to quickly recall specific set-up conditions.
- Camera title indication:
In order to identify individual cameras more easily, a title of up to 24 characters can be assigned to each unit, which can then be superimposed onto a video monitor screen. The position of the superimposed title is selectable from OFF, TOP LEFT, TOP RIGHT, BOTTOM LEFT, or BOTTOM RIGHT.

On-screen set up menu



Menu operation buttons

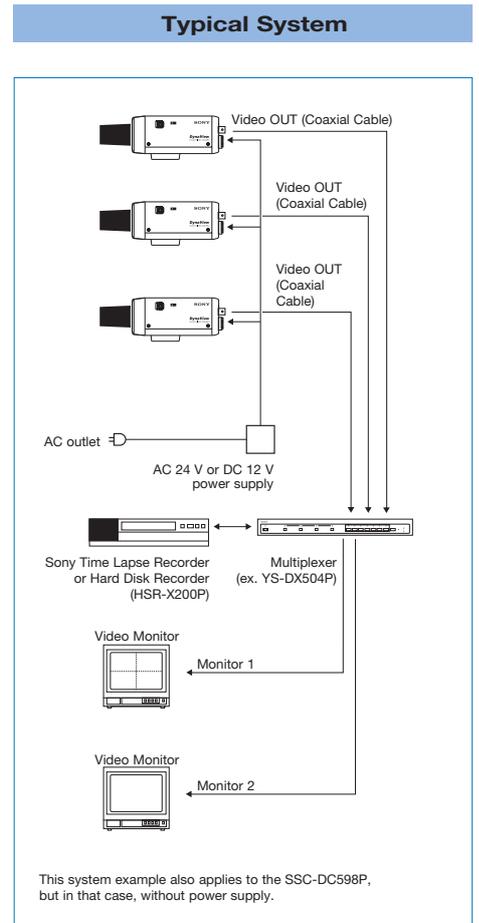


Other Convenient Features

- **DC servo/video servo lens connection capability**
The SSC-DC593P/DC598P cameras are easily connected to either DC-servo or video-servo lenses.
- **CS-mount**
CS-mount lenses can also be used, allowing for easy and precise back-focus adjustments.
- **Dual power capability**
The SSC-DC593P accepts both AC 24 V and DC 12 V power sources and automatically switches to the appropriate mode upon receiving power.
- **Sync system**
The sync system of these cameras can be switched between internal lock and AC line lock. When AC line lock is selected, the V-phase can be adjusted by $\pm 90^\circ$.

SSC-DC593P / SSC-DC598P Specifications

	SSC-DC593P	SSC-DC598P
Image device	1/3 type Interline Transfer CCD	
Picture elements (H x V)	752 x 582	
Sensing area	1/3 type format (4.8 x 3.6 mm)	
Signal system	PAL standard	
Sync system	INT/AC Line Lock	
Horizontal resolution	480 TV lines	
Lens mount	CS	
Minimum illumination	Colour: 0.4 lx at F1.4 (30 IRE, AGC ON, Turbo mode) 0.8 lx at F1.4 (50 IRE, AGC ON, Turbo mode) 2.9 lx at F1.4 (100 IRE, AGC ON, Turbo mode) B&W: 0.03 lx at F1.4 (30 IRE, AGC ON, Turbo mode) 0.07 lx at F1.4 (50 IRE, AGC ON, Turbo mode) 0.25 lx at F1.4 (100 IRE, AGC ON, Turbo mode)	
AGC	NORMAL/TURBO/MANUAL/OFF selectable	
CCD IRIS	ON/OFF switchable, 1/50 to 1/10,000 s	
White Balance (WB)	ATW-PRO/ATW/3200K/5600K/MANUAL/DUAL WB selectable	
Backlight Compensation (BLC)	DYNAVIEW/SPOT/WEIGHT/OFF selectable	
S/N ratio	More than 50 dB (AGC OFF, WEIGHT ON)	
Dynamic range	52 dB	
Variable Gamma	SCENE1/SCENE2/SCENE3/SCENE4/OFF selectable	
Aperture	Soft/Normal/Sharp switchable	
Day/Night function	Auto/External/Colour to B/W selectable	
Activity detection	ON/OFF switchable	
Privacy zone masking	ON/OFF switchable (with Area setting function)	
Camera title	Up to 24 characters	
User Preset	A / B / Reset selectable	
Remote control	RS-485 (Baud rate: 38,400bps)	
Video out	BNC, 1.0 Vp-p, 75 Ω, sync negative	
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 ±10 %, 50 Hz or DC 12 V ±10 %	AC 220 to 240 V ±10%, 50 Hz
Power consumption	5.8 W	5.6 W
Auto iris lens	DC/video servo switchable	
Mass	500 g (1 lb. 2 oz)	
Dimensions (W x H x D)	<p>Unit: mm (inches)</p>	
Supplied accessories	Lens mount cap (1), Operating instructions (1), Menu operations (1), AC power cable (1, SSC-DC598P only)	



Sony address/contact details/dealer stamp