

**SONY**<sup>®</sup>

NTSC/PAL

Color Video Cameras

**SSC-DC573**

**SSC-DC573P**

**SSC-DC578P**



**DynaView™**

## FEATURES



### *Sony's surveillance camera line up, provide clear images even under challenging lighting conditions*

*Sony introduces new additions to its surveillance camera line up, the SSC-DC573/DC573P/DC578P 1/3-type CCD Color Video Cameras.*

*Incorporating Sony's advanced DynaView™ technology, these cameras offer an extremely wide dynamic range allowing for the capture of clear images - even in strong backlight situations. All cameras incorporate a 1/3-type CCD, which offers a high horizontal resolution of 480 TV lines and a high sensitivity of 0.8 lx.*

*For greater operational flexibility, the SSC-DC573/DC573P/DC578P cameras provide a variety of convenient features including Variable Gamma Curve, Privacy Zone Masking, Activity Detection, and CCD IRIS™.*

*In addition, the SSC-DC573 and the SSC-DC573P cameras feature dual-power capability (AC 24 V and DC 12 V) to safeguard against unwanted power supply compatibility issues, while the SSC-DC578P is intended for 220 to 240 V AC operations.*

*Offering excellent picture quality and sophisticated features, the SSC-DC573/DC573P/DC578P Color Video Cameras are the right choice for a wide range of surveillance applications, such as in banking, transportation, communication, and government facilities.*

#### **Superior Picture Quality**

##### **High Resolution and High Sensitivity**

The SSC-DC573/DC573P/DC578P cameras incorporate a 1/3-type CCD with 380,000 pixels (SSC-DC573)/440,000 pixels (SSC-DC573P/DC578P) - 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 0.8 lx.

##### **Variable Gamma Curve**

The SSC-DC573/DC573P/DC578P Color Video Cameras are equipped with a gamma correction function, which provides users with a choice of four preset gamma curves. By selecting the appropriate gamma curve, depending on the brightness of the image, both dark and bright portions of the image are reproduced clearly and sharply.

\* The SSC-DC573 is intended for use in NTSC areas; the SSC-DC573P and SSC-DC578P are for use in PAL areas.

### A Wide Dynamic Range with DynaView Technology (See Fig. 1)

With the newly developed DynaView technology, these cameras achieve an incredible dynamic range that is 128 times wider than conventional cameras. Thanks to this new technology, users can capture clear images even in extremely high-contrast lighting environments.

By activating the DynaView mode, the camera will capture the same image twice - first with a normal shutter speed, and then with a high shutter speed. The newly developed LSI technology then combines the dark areas captured at normal shutter speed with the bright areas captured at high shutter speed to create one image.

The result is an extremely high-contrast picture that is unattainable with a conventional camera. Additionally, DynaView technology allows the SSC-DC573/DC573P/DC578P cameras to achieve more powerful Back-Light 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.

### 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)/1/50 (PAL) to 1/100,000 second.

### A Wide Auto Tracing White (ATW) Range

Auto Tracing White is a feature that automatically adjusts the camera white balance in accordance with any changes in the lighting conditions and different illuminants. This ensures that the appropriate color balance of a picture is always obtained. The SSC-DC573/DC573P/DC578P cameras provide an extremely wide Automatic Tracing White range of 2,000 K to 10,000 K, allowing adjustment-free operation under a variety of light conditions. Also, these cameras feature preset color temperature settings and user-defined manual settings.

### Turbo AGC

The SSC-DC573/DC573P/DC578P cameras are equipped with the advanced Turbo AGC function. This allows the user to boost camera gain 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 from OFF, NORMAL, TURBO, or MANUAL.

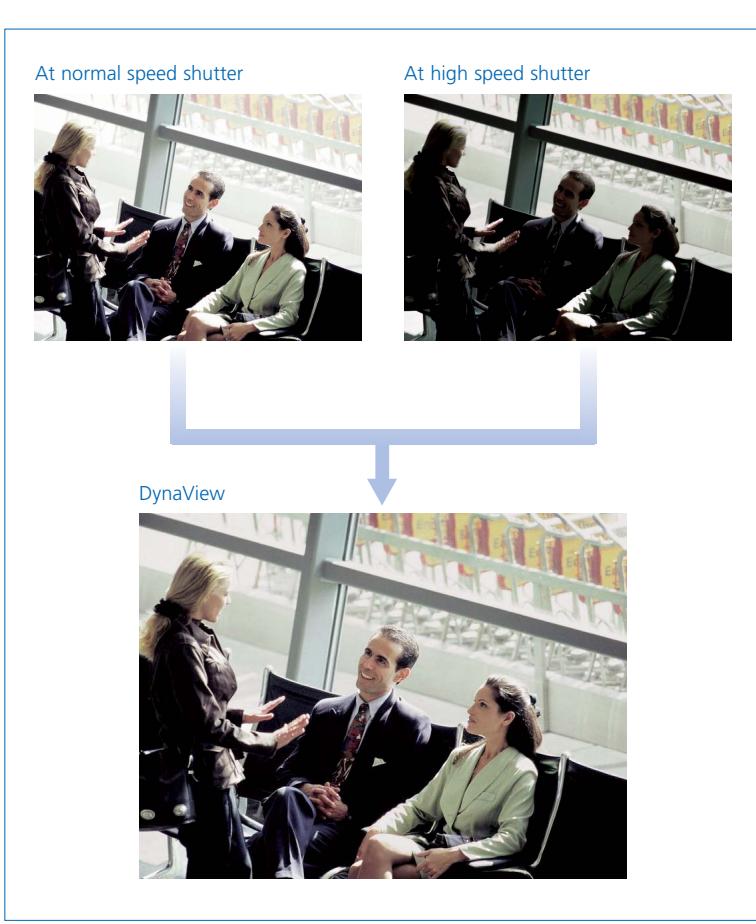


Fig. 1 DynaView

## Advanced Features

### Activity Detection Function

The Activity Detection function detects changes within an area of the picture designated by the user.

When activity is detected, the camera superimposes a blinking ALARM indication on the video monitor and outputs an alarm trigger signal to external equipment. Up to three user-defined detection areas can be selected. The on-screen, superimposed ALARM message is 10 seconds in duration, while the alarm trigger signal output can be selected within the range of 0.5 and 10 seconds.

### Privacy Zone Masking (See Fig. 2)

With the Privacy Zone Masking function, unwanted or prohibited areas within an image can be masked. Up to two masking blocks can be selected in width and height. The masking areas are selectable from either the inside or the outside of the masking blocks.

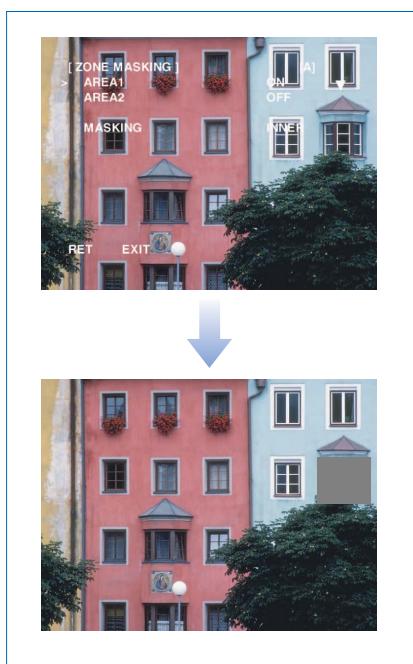


Fig. 2 Privacy Zone Masking Function

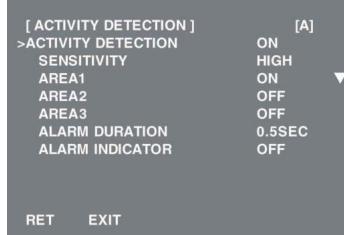
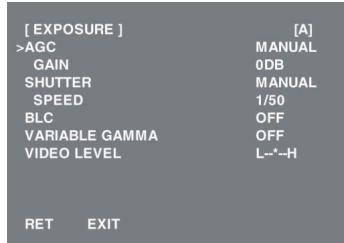
### User-friendly Operation

#### On-screen Set-up Menu

Camera settings can be adjusted via the on-screen menu using the cursor keys on the side panel of the camera. Up to two customized settings can be stored in the memory to quickly recall specific setup conditions.

#### Camera Title Indication

The SSC-DC573/DC573P/DC578P cameras also feature a camera title indication function. To easily identify individual cameras, users can assign a title of up to 24 characters 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.



Menu operation buttons

# FEATURES

## Other Convenient Features

### DC-servo/Video-servo Lens Connection Capability

The SSC-DC573/DC573P/DC578P cameras can be connected easily to either DC-servo or video-servo lenses.

### CS-mount

This range of Sony cameras can also be used with CS-mount lenses, allowing for easy and precise back-focus adjustments.

### AC 24 V/DC 12 V Operation

The SSC-DC573 and SSC-DC573P accept 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 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  $\pm 90^\circ$ .

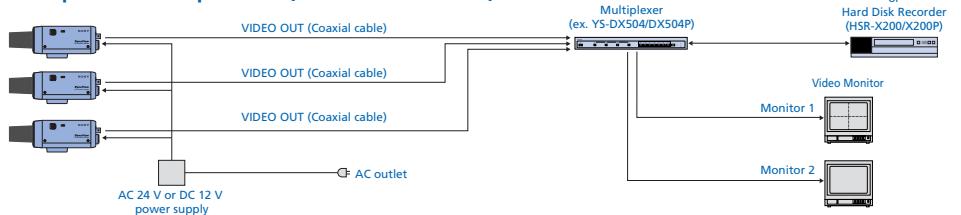
## SYSTEM CONFIGURATIONS

### SSC-DC573/DC573P

#### Single Camera Operation



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

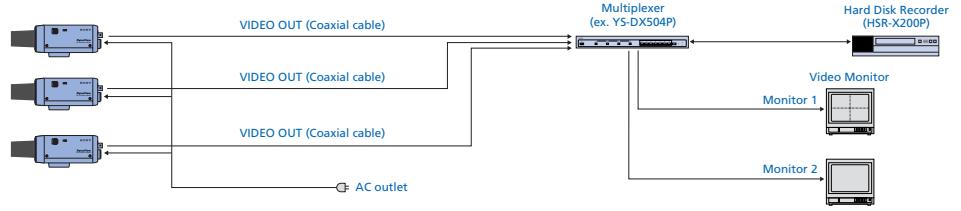


### SSC-DC578P

#### Single Camera Operation

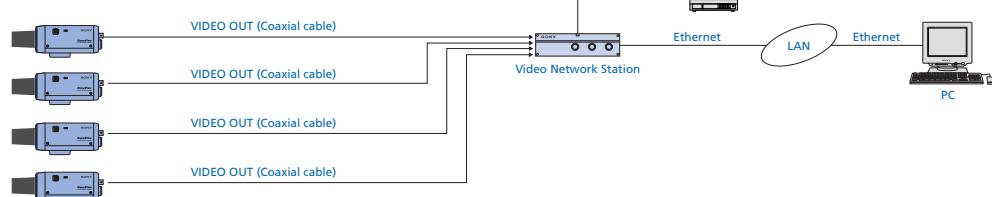


#### Multiple Camera Operation (In case of Line Lock)



### SSC-DC573/DC573P/DC578P

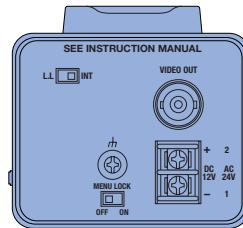
#### Multiple Camera Operation over LAN



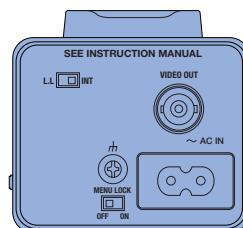
# SPECIFICATIONS

	SSC-DC573	SSC-DC573P	SSC-DC578P
Image device	1/3 type CCD		
Picture elements (H x V)	768 x 494	752 x 582	
Sensing area	1/3 type format (4.8 x 3.6 mm)		
Signal system	NTSC standard	PAL standard	
Sync system	INT/Line Lock		
Horizontal resolution	480 TV lines		
Lens mount	CS		
Minimum illumination	0.8 lx at F1.4 (50 IRE, AGC ON)		
AGC	NORMAL/TURBO/MANUAL/OFF selectable		
CCD IRIS	ON/OFF switchable, 1/60 to 1/100,000 s	ON/OFF switchable, 1/50 to 1/100,000 s	
Electric shutter	1/60 to 1/10,000 s, 8 steps	1/50 to 1/10,000 s, 8 steps	
White Balance (WB)	ATW-PRO/ATW/3200K/5600K/MANUAL/DUAL WB selectable		
Back-Light Compensation (BLC)	DYNAVIEW/SPOT/WEIGHT/OFF selectable		
S/N ratio	More than 50 dB (AGC OFF, WEIGHT ON)		
Dynamic range	52 dB		
Variable Gamma Curve	Scene 1/Scene 2/Scenc 3/Scene 4/Off selectable		
Aperture	Soft/Normal/Sharp selectable		
Camera title	Up to 24 characters		
User preset	Two presets		
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 %, 60 Hz or DC 12 V ±10 %	AC 24 V ±10 %, 50 Hz or DC 12 V ±10 %	AC 220 to 240 V ±10 %, 50 Hz
Power consumption	4 W		
Auto iris lens	DC/Video Servo switchable		
Mass	480 g (1 lb 1 oz)		
Dimensions (W x H x D)	70 x 57 x 129 mm (2 7/8 x 2 1/4 x 5 1/8 inches)		
Supplied accessories	Lens mount cap (1), Operating instructions (1), Menu operations (1), AC power cable (1, SSC-DC578P only)		

## Rear View

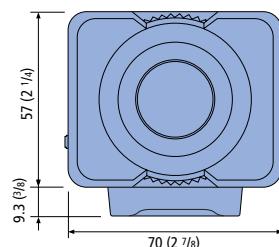


SSC-DC573/DC573P Rear panel

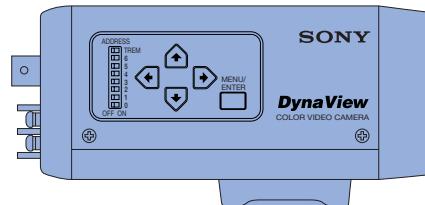
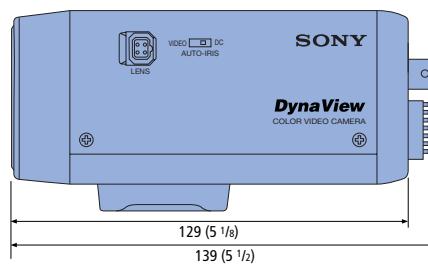


SSC-DC578P Rear panel

## Dimensions



Unit: mm (inches)



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