

SONY

Outstanding picture quality,
even in low-light conditions.



SSC-DC80 Series
Colour Video Cameras

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Offering Outstanding Picture Quality, the Feature-rich **SSC-DC80 Series** is Ideal for High-end Video Monitoring Applications

Sony is pleased to announce the introduction of new additions to its security camera lineup: the SSC-DC80 Series of high-resolution colour video cameras. Equipped with a 1/2-type CCD with Exwave HAD™ technology, these cameras achieve a high horizontal resolution of 480 TV lines and high sensitivity of 0.4 lx. Incorporating a unique Sony gamma correction function, these cameras can reproduce clear and sharp images in different scene environments, by allowing the user to select the appropriate gamma curve from four preset gamma curve settings. In addition, the Auto Tracing White Balance feature ensures that images are reproduced with the appropriate colour balance in response to changing lighting conditions. Other convenient features such as Privacy Zone Masking, Activity Detection, CCD IRIS™, and On-Screen Menu operation are also available to meet a wide range of video monitoring demands. What's more, the SSC-DC83P camera features dual-power capability (AC 24 V and DC 12 V) to safeguard against unwanted power supply compatibility issues.

With its outstanding picture quality, the feature-rich SSC-DC80 Series cameras are ideal for high-end video monitoring applications such as in train stations, banks, government facilities, on highways and in many more locations.

FEATURES

■ High Resolution and High Sensitivity

SSC-DC80 Series cameras incorporate a 1/2-type CCD with Exwave HAD™ technology that achieves sensitivity levels and delivers outstanding picture quality at a high resolution of 480 TV lines. The minimum illumination of 0.4 lx allows images to be captured clearly even under low-light conditions.

■ Turbo Auto Gain Control (AGC)

SSC-DC80 Series cameras are equipped with an advanced Turbo AGC function. This allows users to boost the camera gain up to 28 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.

■ Wide Auto Tracing White (ATW) Range

ATW 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 images with an appropriate colour are always obtained. The SSC-DC80 Series cameras provide an extremely wide ATW range of 2,000K to 10,000K, allowing adjustment-free operation under a variety of light conditions. Also, these cameras feature preset colour temperature settings and user-defined manual settings.

■ 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 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 1/50 to 1/100,000 second.

■ Variable Gamma Curve

Users can choose from four preset gamma curves including two unique gamma curves, which enable precise brightness level control of captured images. By selecting a gamma curve that is appropriate for a given scene, captured images can be reproduced clearly and sharply.



■ Activity Detection Function

The SSC-DC80 Series cameras feature an activity detection function which 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 freely 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.

■ Stylish Design

A stylish rear panel cover and transparent lens cap come as standard on these cameras, so the camera will not detract from the natural decor of the room in which they are installed.

■ DC Servo/Video Servo Lens Compatibility

These cameras are easily connected to either DC-servo or video-servo lenses.

■ CS-/C-Mount Lens Compatibility

These cameras can be used with both CS- and C-mount*1 lenses so that users can select the appropriate lens type to match the monitoring applications.

*1 Supplied C-mount adaptor is required.

■ Privacy Zone Masking

With the Privacy Zone Masking function, unwanted or prohibited areas within an image can be masked. Up to two masking blocks can be freely selected in width and height. Once the blocks have been defined, the areas either inside or outside of those blocks can be masked.

■ Privacy Zone Masking Function



Setup screen

Mask image

■ User-friendly Operation

ON-SCREEN SETUP 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 setup conditions.

CAMERA TITLE INDICATION

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.

CUSTOM TEMPLATES

To easily and quickly set up any of the SSC-DC80 Series cameras, appropriate values for each of the following settings can be preset as a Scene: Exposure, Auto Gain Control (AGC), Back Light Compensation (BLC), Video Level, Gamma Curve, and White Balance. Simply choose the appropriate Scene from the menu, and the camera settings are automatically changed.

The following six preset Scenes are available: Building Entrance, Office, Parking Lot, Subway, Lobby, and Station.

Preset values can also be changed manually, providing users with the flexibility to capture images using other more suitable values when necessary.



Camera Side Panel



SPECIFICATIONS

CAMERA	SSC-DC80P	SSC-DC83P	SSC-DC88P
Image device	1/2-type CCD with Exwave HAD technology		
Number of effective pixels (H x V)	440,000 (768 x 494)		
Auto Gain Control	Turbo/Normal/Manual/Off		
White balance mode	ATW-pro/ATW/3200K/5600K/Manual		
Lens type	CS/C*-mount (*C-mount adaptor is supplied), DC/Video servo auto iris		
CCD iris	ON/OFF, 1/50 to 1/100,000 s switchable		
Back-Light Compensation (BLC)	SPOT/WEIGHT/OFF switchable		
Analogue video output	BNC x 1, 1.0 Vp-p, 75Ω, Sync negative, S-Video x 1		
Signal system	PAL		
Sync system	Internal/VS/VD	Internal/AC Line lock/VS	
Horizontal Resolution	480 TV lines		
S/N ratio	More than 57 dB (AGC OFF, WEIGHT ON)		
Minimum illumination	0.4 lx (50 IRE, F1.2, Turbo AGC ON)		

GENERAL			
Mass	approx. 560 g (1.4 oz)	approx. 550 g (1.3 oz)	approx. 600 g (1.5 oz)
Dimensions (W x H x D)	70 x 57 x 260 mm (2 7/8 x 2 1/4 x 20 1/4 inches) (including front and rear covers)		
Power requirements	Multiplexing with the YS-W170P/W270P, or DC 12 V ±10%	AC 24 V ±10%, 50 Hz or DC 12 V ±10%	AC 24 V ±10%, 50 Hz
Power consumption	4.6 W	4.4 W	4.2 W
Operating temperature	-10 to 50 °C (14 to 122 °F)		
Storage temperature	-40 to 60 °C (-40 to 140 °F)		

SUPPLIED ACCESSORIES	
SSC-DC80P	Lens mount cap, Operating instructions, Front cover, Rear cover, Screws (2), C-mount adaptor
SSC-DC83P/SSC-DC88P	Lens mount cap, Operating instructions, Front cover, Rear cover, Screws (2), Power cable

CAMERA ADAPTORS		
	YS-W270P	YS-W170P
Video output	BNC(8), composite video	BNC(2), composite video
Signal system	PAL	
Video input	Camera in, BNC(4)	Camera in, BNC(1)
External sync	VS or VD-W	
Internal sync	MPX-VS or MPX-VD-W	
Max. cable length	300 m (984 ft) using RG-59B/U 500 m (1640 ft) using RG-6A/U 600 m (1968 ft) using RG-11A/U	
Cable compensation	3 positions	
Power requirements	AC 220 to 240 V, 50 Hz	
Power consumption	49.5 W	15 W
Operating temperature	-10 to 50°C (14 to 122°F)	
Mass	3.8 kg (8 lb 6 oz)	1.9 kg (4 lb 3 oz)
Dimensions (W x H x D)	424 x 52 x 345 mm (16 3/4 x 2 1/8 x 13 5/8 inches)	212 x 52 x 345 mm (8 8/3 x 2 1/8 x 13 5/8 inches)

Flexible Power Operations

The SSC-DC80P operates on 12 V DC power. If required, optional YS-W270P/W170P Camera Adaptors can be used with this camera to transmit video, sync signals and power using a single coaxial cable for flexible operation. The SSC-DC83P accepts both 24 V AC and 12 V DC power and will automatically switch modes depending on the power source. The SSC-DC88P operates on 220 to 240 V AC power.

Sync System

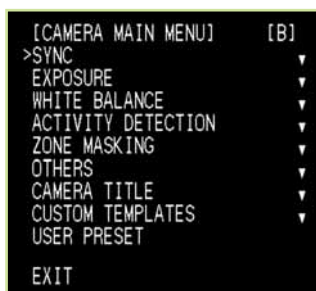
The SSC-DC80P features an internal sync and a VS (Video and Sync) /VD*² for external synchronisations. The VD sync method contributes to easy installation since it eliminates the need for H-phase adjustment. The SSC-DC83P/DC88P features an internal sync and an AC line lock/VS for external synchronisation. When AC line lock is selected, the V-phase can be adjusted by ±90°.

*2 An optional YS-W270P/W170P Camera Adaptor is required to generate a VD sync signal.

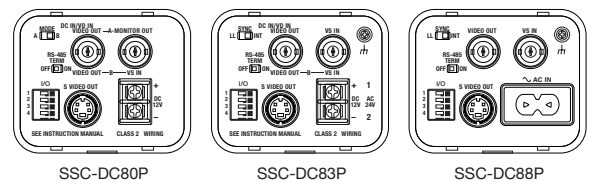
Interfaces

SSC-DC80 Series cameras are equipped with an industry-standard BNC connector for composite video signals and an S-Video connector for higher-quality images.

On-screen Setup Menu

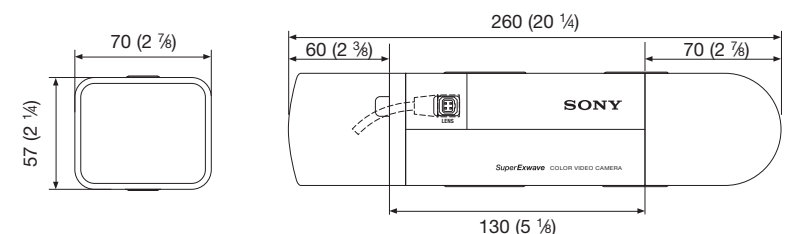


REAR VIEW



DIMENSIONS

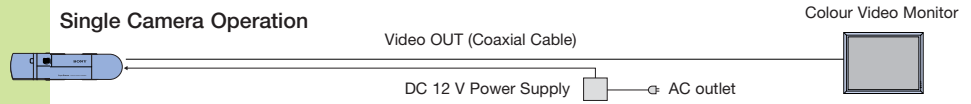
Unit: mm (inches)



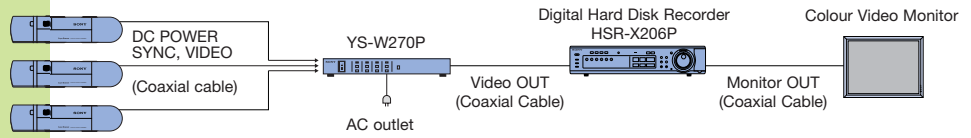
SYSTEM CONFIGURATION

SSC-DC80P

Single Camera Operation

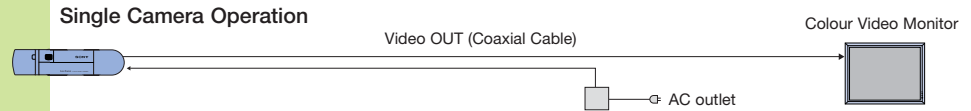


Multiple Camera Operation (Using the YS-W270P)

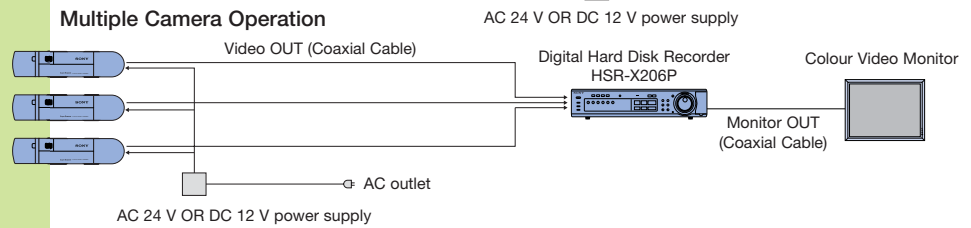


SSC-DC83P

Single Camera Operation

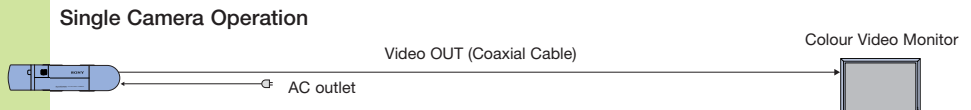


Multiple Camera Operation

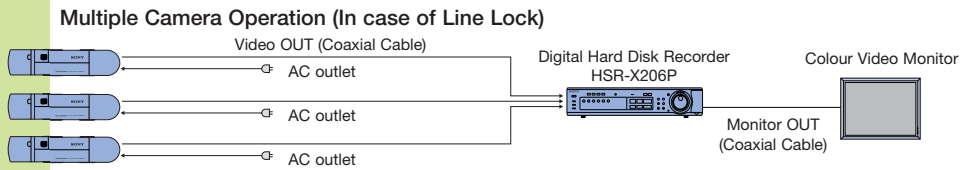


SSC-DC88P

Single Camera Operation

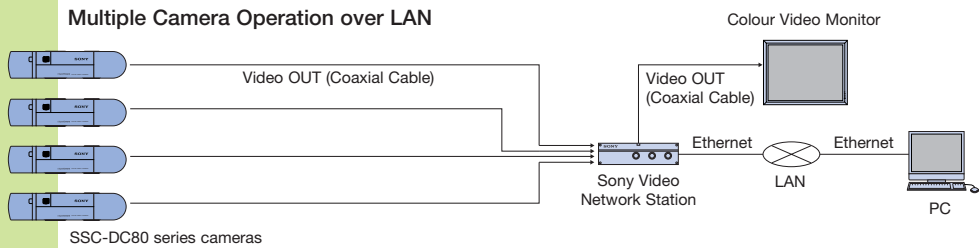


Multiple Camera Operation (In case of Line Lock)



Multiple Camera over LAN

Multiple Camera Operation over LAN



OPTIONAL ACCESSORIES



YS-W170P
Camera Adaptor



YS-W270P
Camera Adaptor

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