

SONY®

NTSC/PAL

Color Video Cameras

SSC-DC80 Series



SSC-DC80
SSC-DC80P
SSC-DC83
SSC-DC83P
SSC-DC88P



FEATURES

High Resolution and High Sensitivity

SSC-DC80 Series cameras incorporate a 1/2-type CCD with Exwave HAD™ technology that achieves high 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.

Variable Gamma Curve

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



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 color 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 color 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 the wide range of video monitoring demands. What's more, the SSC-DC83/DC83P cameras feature 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!



A 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 the images with an appropriate color are always obtained.

SSC-DC80 Series cameras provide an extremely wide ATW 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.

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.

Turbo AGC

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

Activity Detection Function

The SSC-DC80 Series cameras provide 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.

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. The masking areas are selectable from either the inside or the outside of the masking blocks.



(Setup screen)



(Mask image)

Privacy Zone Masking Function

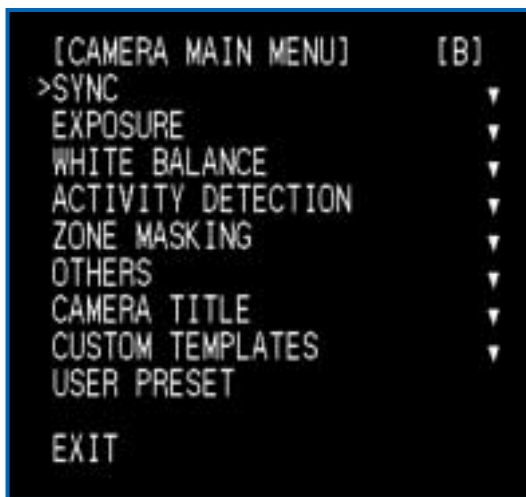
Stylish Design

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.

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 customized settings can be stored in the memory to quickly recall specific setup conditions.



Camera Side Panel

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 more suitable values when necessary.

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.

Flexible Power Operations

The SSC-DC80/DC80P operates on 12 V DC power. If required, optional YS-W270A/270P/W170A/W170P Camera Adaptors can be used with these cameras to transmit video, sync signals, and power using a single coaxial cable for flexible operation.

The SSC-DC83/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-DC80/DC80P features an internal sync and a VS (Video and Sync) /VD*2 for external synchronizations. The VD sync method contributes to easy installation since it eliminates the need for H-phase adjustment. The SSC-DC83/DC83P/DC88P features an internal sync and an AC line lock/VS for external synchronizations. When AC line lock is selected, the V-phase can be adjusted by $\pm 90^\circ$.

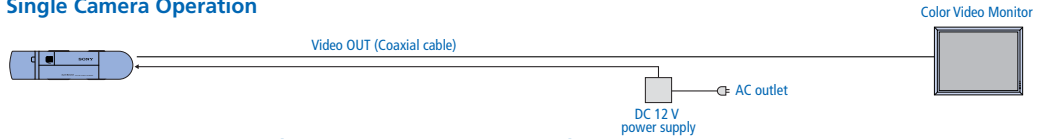
*2 An optional YS-W270A/270P/W170P/ Camera Adaptor is required to generate a VD sync signal.

Interfaces

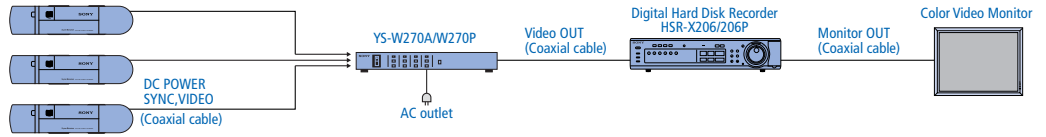
These cameras are equipped with an industry-standard BNC connector for composite video signals and an S-Video connector for higher-quality images.

SYSTEM CONFIGURATION

SSC-DC80/SSC-DC80P Single Camera Operation



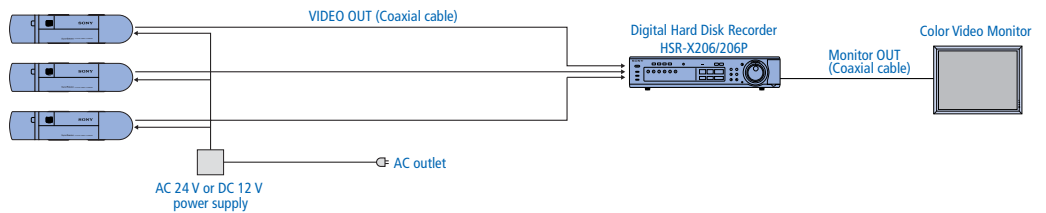
Multiple Camera Operation (Using the YS-W270A/W270P)



SSC-DC83/SSC-DC83P Single Camera Operation



Multiple Camera Operation

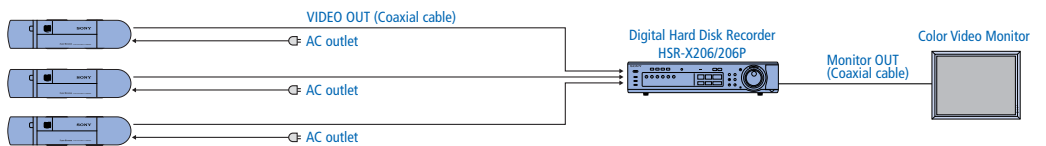


SSC-DC88P

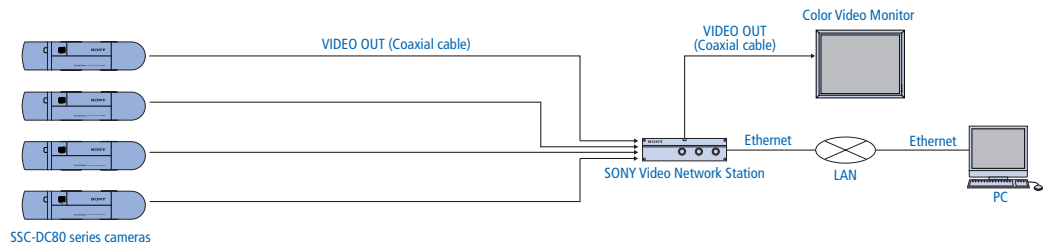
Single Camera Operation



Multiple Camera Operation (In case of Line Lock)



Multiple Camera Operation over LAN



OPTIONAL ACCESSORIES



YS-W170A/YS-W170P
Camera Adaptor



YS-W270A/YS-W270P
Camera Adaptor

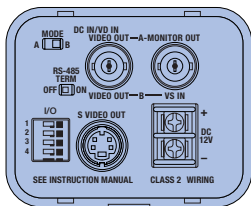
SPECIFICATIONS

	SSC-DC80	SSC-DC80P	SSC-DC83	SSC-DC83P	SSC-DC88P
Camera					
Image device	1/2-type CCD with Exwave HAD technology				
Number of effective pixels (H x V)	380,000 (768 x 494)	440,000 (752 x 582)	380,000 (768 x 494)	440,000 (752 x 582)	
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 switchable, 1/60 to 1/100,000 s	ON/OFF switchable, 1/50 to 1/100,000 s	ON/OFF switchable, 1/60 to 1/100,000 s	ON/OFF switchable, 1/50 to 1/100,000 s	
Back-Light Compensation (BLC)	SPOT/WEIGHT/OFF switchable				
Analog video output	BNC x 1, 1.0 Vp-p, 75 Ω, Sync negative, S-Video x 1				
Signal system	NTSC	PAL	NTSC	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 (50IRE, 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-W170A/W270A, or DC 12 V ±10 %	Multiplexing with the YS-W170P/W270P, or DC 12 V ±10 %	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	4.6 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					
	Lens mount cap, Operating instructions, Front cover, Rear cover, Screws (2), C-mount adaptor				Lens mount cap, Operating instructions, Front cover, Rear cover, Screws (2), Power cable

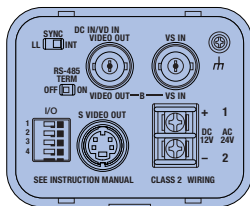
Camera Adaptors

	YS-W270A	YS-W270P	YS-W170A	YS-W170P
Video output	BNC(8), composite video		BNC(2), composite video	
Signal system	NTSC	PAL	NTSC	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 120 V, 60 Hz	AC 220 to 240 V, 50 Hz	AC 120 V, 60 Hz	AC 220 to 240 V, 50 Hz
Power consumption	92 W	49.5 W	27 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 3/8 x 2 1/8 x 13 5/8 inches)	

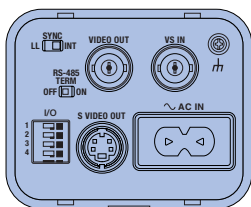
Rear View



SSC-DC80/SSC-DC80P

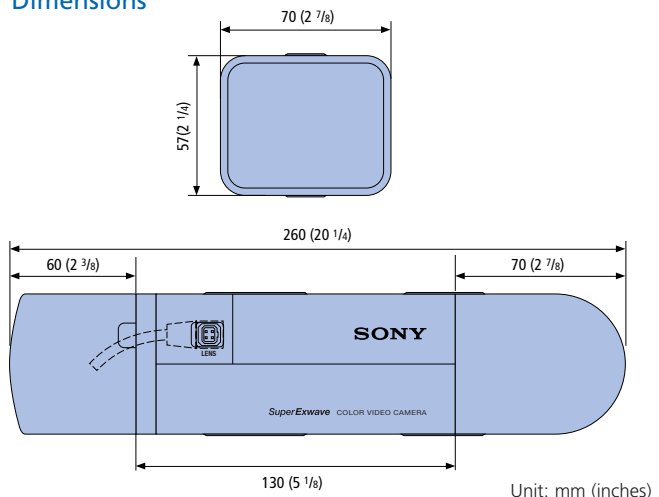


SSC-DC83/SSC-DC83P



SSC-DC88P

Dimensions



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