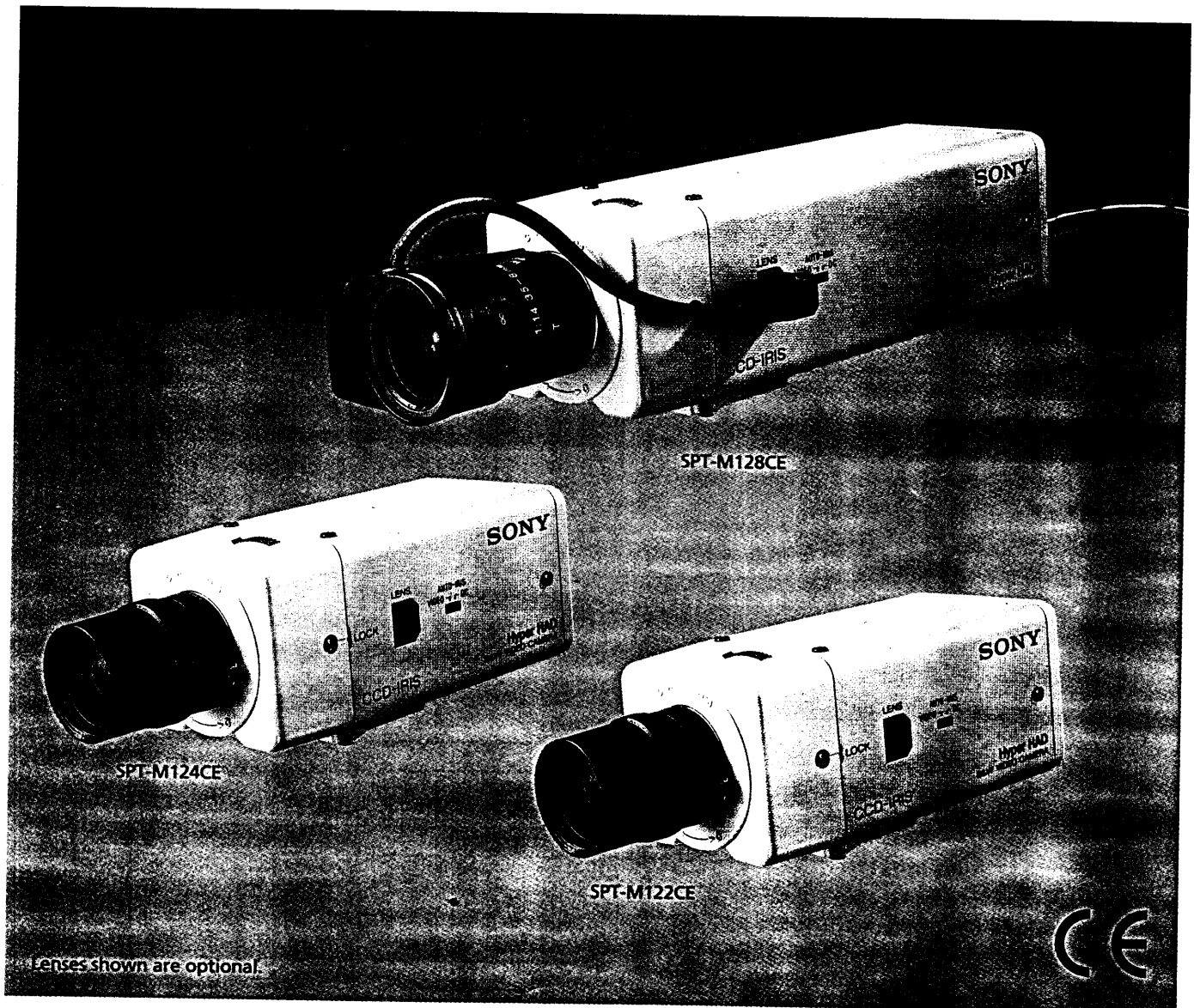


SPT-M128CE/M124CE/M122CE

CCD Black & White Video Cameras



Lenses shown are optional.

SONY®

Cameras For Today's Deman

Compact and reliable, Sony SPT-M128CE, SPT-M124CE and SPT-M122CE Video Cameras are the ideal choice for many of today's surveillance and monitoring applications. Sony Hyper HAD™ (Hole Accumulated Diode) CCD technology provides the high sensitivity and resolution required to capture crisp, high quality images. These black and white cameras also support both DC and Video servo auto iris lenses. Manual iris lenses are also effective thanks to the combination of CCD IRIS™ and BLC (Back Light Control) funtions which ensure high image quality even in adverse light conditions.

To accommodate varying user requirements, Sony provides a choice of three models that operate from different power sources: the SPT-M128CE operates from 220 to 240 V AC, the SPT-M124CE from 24 V AC and the SPT-M122CE from 12 V DC. Whatever your power source, these cameras deliver the clear images that are vital for effective security and surveillance.

● Features

► Superior Picture Quality

All three of these cameras incorporate a 1/3-inch IT (Interline Transfer) Hyper HAD CCD with more than 290,000 effective picture elements and a horizontal resolution of 380 TV lines. Sony Hyper HAD technology allows very high sensitivity with a minimum illumination of 0.1 lx at F1.2 (50 IRE), producing clear, crisp images.

► CCD IRIS Function

This function allows the use of a manual iris lens instead of a more costly automatic iris lens. As the illumination level of the scene changes, these cameras respond by automatically reducing or increasing the exposure time of the photosensors. This is achieved by changing the electronic shutter speed of the CCD, in the range of 1/50 of a second to 1/100,000 of a second.

► Flexible Choice of Auto Iris Lens

An auto iris lens is often ideal for shooting in environments where illumination levels vary greatly, such as outdoors. The SPT-M128CE, SPT-M124CE and SPT-M122CE cameras accept both DC servo and Video servo auto iris lenses. The auto iris lens 4-pin connector is conveniently located on the side of the camera.

► Backlight Compensation Function

Strong backlighting can often cause the subject of the picture to be cast into shadow. The analogue Backlight Compensation (BLC) function helps to overcome this problem. In all three camera models, picture brightness can be adjusted automatically to allow for changes in lighting conditions. The rear panel LEVEL

and BLC controls also make it possible to manually adjust the range of the backlight compensation function to optimize the image under very adverse lighting conditions.

► AC Line Lock Capability (SPT-M128CE and SPT-M124CE)

The SPT-M128CE and SPT-M124CE feature external sync with an AC line lock. This makes camera installation and synchronization easy for both new and existing camera systems. The AC power frequency (50 Hz) is used as the vertical sync reference of the camera and there is an externally adjustable Vertical-Phase (+/-90°) control. This feature is used in multi-camera installations where automatic switching is employed, and allows for easy roll-free switching from camera to camera.

Model	Power Source	Synchronization
SPT-M128CE:	220 V – 240 V AC	AC line lock (50 Hz)
SPT-M124CE:	24 V AC	AC line lock (50 Hz)
SPT-M122CE:	12 V DC	Internal

► Low Power Consumption

All three cameras have significantly lower power consumption than earlier models:

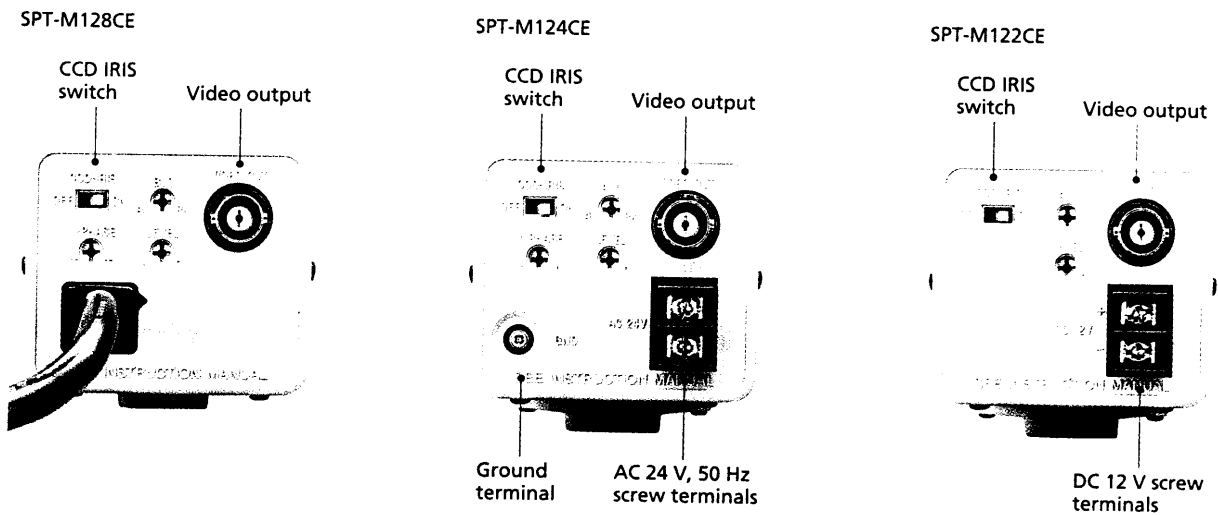
Model	Power Requirements	Power Consumption
SPT-M128CE:	220 V – 240 V AC, 50 Hz	3.5 W
SPT-M124CE:	24 V AC, 50 Hz	2.5 W
SPT-M122CE:	12 V DC	2.4 W (0.2 A)

► C/CS-mount Lens Compatibility

All three cameras can be used with C-mount or CS-mount lenses, and precise back-focus adjustment can be easily accomplished. This broadens your choice of lenses.

ing Surveillance Applications

Rear Panel




► Optional Accessory Auto Iris Lens



Models	VCL-4V8WEA
DC/Video servo	DC
Mount	CS
Focal length	3.5 to 8.0 mm
Iris control	Auto
Maximum aperture ratio	1 : 1.4
Minimum object distance	0.3 m
Angle of view (horizontal)	71.4° to 33°
Angle of view (vertical)	54.8° to 25.2°
Filter size	—
Mass	72 g (2.5 oz)
Dimensions	ø35 × 54 × 46 mm
(dia. × H × L)	(1 7/16 × 2 1/4 × 1 13/16 in)
Cable length	100 mm (4 in)

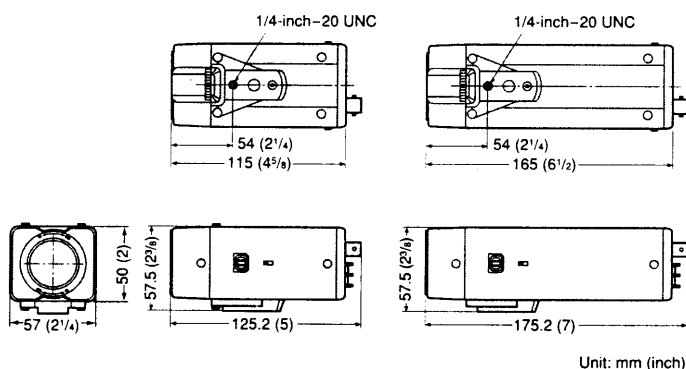
Specifications

	SPT-M128CE	SPT-M124CE	SPT-M122CE															
Image device:	1/3-inch Interline Transfer Hyper HAD CCD																	
Picture elements:	500 (H) × 582 (V)																	
Sensing area:	4.4 × 3.3 mm																	
Signal system:	CCIR																	
Sync system:	External with AC line lock		Internal															
Phase control:	V-phase adjustment (+/-90°)		—															
Horizontal resolution:	380TV lines																	
Lens mount:	C/CS mount adjustable																	
Minimum illumination:	0.06 lx at F1.2 (30 IRE, AGC ON) 0.1 lx at F1.2 (50 IRE, AGC ON) 0.4 lx at F1.2 (100 IRE, AGC ON)																	
Automatic gain control : (AGC)	Always AGC ON																	
CCD IRIS control:	ON/OFF switchable, 1/50 to 1/100000 (second)																	
Backlight compensation:	Variable control																	
Signal-to-noise ratio:	More than 45dB (AGC OFF)																	
Video out:	BNC, 1.0Vp-p, 75Ω, sync negative																	
Operating temperature:	-10 to 50°C (14° to 122°F)																	
Storage temperature:	-40 to 60°C (-40 to 140°F)																	
Power requirements:	AC 220 to 240 V, 50 Hz	AC 24 V, 50 Hz	DC 12 V, 50 Hz															
Power consumption:	3.5 W	2.5 W	2.4 W (0.2 A)															
Mass:	750 g (1 lb 10 oz)	320 g (11 oz)	320 g (11 oz)															
Auto iris type:	DC/Video servo type																	
Connectors:	VIDEO OUT (BNC)	VIDEO OUT (BNC), AC 24 V terminals, GND	VIDEO OUT (BNC), DC 12 V terminals															
	LENS (4-pin) 	<table><tr><th>Pin</th><th>DC servo</th><th>Video servo</th></tr><tr><td>1</td><td>Control (-)</td><td>Power (DC 9 V, 50 mA)</td></tr><tr><td>2</td><td>Control (+)</td><td>—</td></tr><tr><td>3</td><td>Drive (+)</td><td>Video (0.7 V p-p)</td></tr><tr><td>4</td><td>Drive (-) (GND)</td><td>(GND)</td></tr></table>	Pin	DC servo	Video servo	1	Control (-)	Power (DC 9 V, 50 mA)	2	Control (+)	—	3	Drive (+)	Video (0.7 V p-p)	4	Drive (-) (GND)	(GND)	
Pin	DC servo	Video servo																
1	Control (-)	Power (DC 9 V, 50 mA)																
2	Control (+)	—																
3	Drive (+)	Video (0.7 V p-p)																
4	Drive (-) (GND)	(GND)																
Supplied accessories:	Lens connector, lens mount cap, operating instruction manual																	

Dimensions:

SPT-M122CE/M124CE

SPT-M128CE

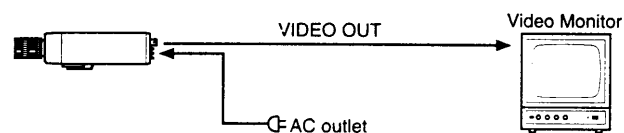


Features and specifications subject to change without notice.
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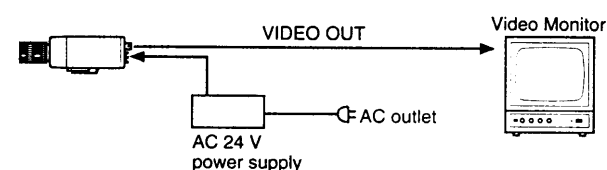
System Connections

Single Camera Operation

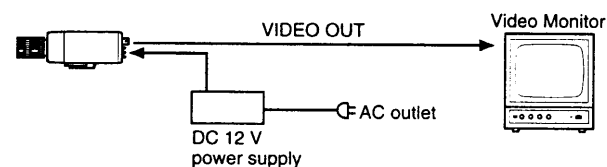
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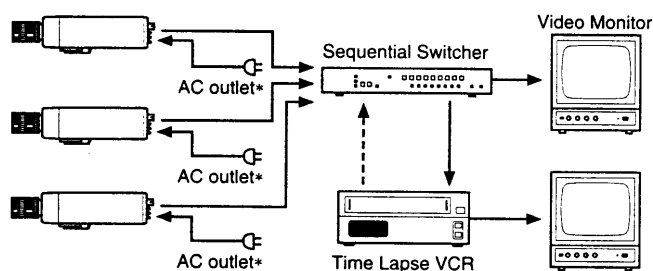
<SPT-M124CE>



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Multiple Camera Operation



*The SPT-M128CE operates from 220 to 240 V AC, the SPT-M124CE from 24 V AC and the SPT-M122CE from 12 V DC.



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