

SPT-M308CE/M304CE

CCD Black & White Video Cameras



SPT-M308CE



SPT-M304CE

Lenses shown are options.



The Sony SPT-M308CE/M304CE are 1/3-inch CCD CCIR standard, black and white high resolution video cameras specifically designed for surveillance and monitoring systems. Using Sony Hyper HAD™ (Hole Accumulated Diode) CCD technology, SPT-M308CE/M304CE cameras attain a high horizontal resolution of 570TV lines. In addition, these cameras provide convenient functions such as BLC (Back Light Control), CCD IRIS™ and AC Line Lock with V-phase adjustability.

Featuring excellent picture performance and an impressive cost-performance ratio, SPT-M308CE/M304CE cameras are suitable for demanding surveillance and monitoring applications.

To accommodate differing user requirements, Sony provides a choice of two models that operate from different power sources: the SPT-M308CE operates from 230V AC and the SPT-M304CE operates from 24V AC.

SONY®

Outstanding Features

Superior Picture Quality

SPT-M308CE/M304CE cameras incorporate a 1/3-inch IT (Interline Transfer) Hyper HAD CCD with 440,000 effective picture elements, which delivers an outstanding resolution of 570TV lines. Even in poor light conditions (0.5 lx), SPT-M308CE/M304CE cameras produce high quality pictures with sufficient contrast to allow good object recognition.

CCD IRIS Function

This function allows the use of a manual iris lens instead of a more costly automatic iris lens. As the scene illumination level increases, SPT-M308CE/M304CE cameras respond by automatically reducing 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 1/50,000 of a second. This feature also provides clear motion pictures under appropriate light conditions.

Auto Iris Lens Connection

In applications requiring an increased dynamic range such as outdoor applications, SPT-M308CE/M304CE are also capable of accepting auto iris lenses*.

*DC servo auto iris lenses only

Backlight Compensation Function

When using auto iris lenses or the CCD IRIS function, SPT-M308CE/M304CE cameras can adjust the picture brightness for various lighting conditions with the LEVEL and BLC (Back Light Control) controls on the side panel. These controls add greater flexibility to vary the range of backlight compensation to suit the application.

AC Line Lock Capability

SPT-M308CE/M304CE cameras feature AC Line Lock for external synchronization. This feature is especially useful in multi-camera installations where automatic switching is employed and allows for easy roll switching from camera to camera. The AC power frequency (50Hz) is used as the vertical sync reference of the camera and there is an externally adjustable Vertical-Phase ($\pm 90^\circ$) control. This makes camera installation and synchronization remarkably easy and simple for both new and existing camera systems.

C/CS-mount Lens Compatibility

SPT-M308CE/M304CE cameras can be used either with C-mount or CS-mount lenses and precise back-focus adjustment can be easily accomplished. This broadens your choice of lens.

Optional Accessories

Auto iris Lenses (DC servo/CS-mount)

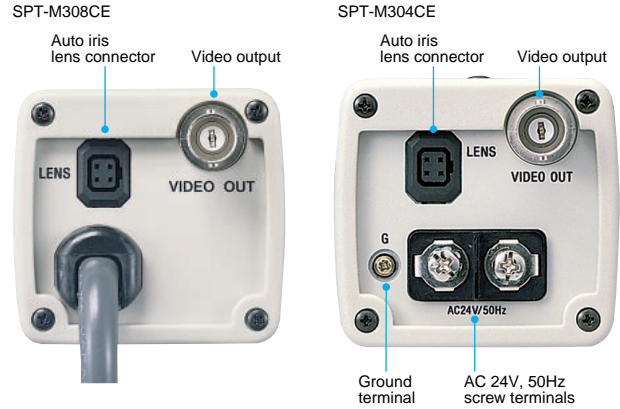
Models	VCL-3V8WEAP	VCL-S02WEAP	VCL-S04WEAP
Focal length	3.5 to 8.0mm	2.8mm	4.0mm
Maximum aperture ratio	1 : 1.8	1 : 1.3	1 : 1.4
Maximum object distance	0.2m		
Filter size	M30.5 × 0.5mm		
Mass	70g (2oz)	41g (1.4oz)	75g (3oz)
Dimensions (dia. × H × L)	42.0 × 52.0 × 47.0mm (1 11/16 × 2 1/8 × 1 7/8 inches)	32.0 × 39.8 × 33.0mm (1 5/16 × 1 5/8 × 1 5/16 inches)	42.0 × 39.8 × 33.0mm (1 11/16 × 1 5/8 × 1 5/16 inches)
Cable length	260mm (10 1/4 inch)	310mm (12 1/4 inch)	260mm (10 1/4 inch)

Mounting Bracket (for indoor use)

Model	YT-B21
Supplied accessories	Mounting screw (× 4) Operating instruction manual
Maximum load	2kg (4lb 6oz)
Mass	200g (7oz)



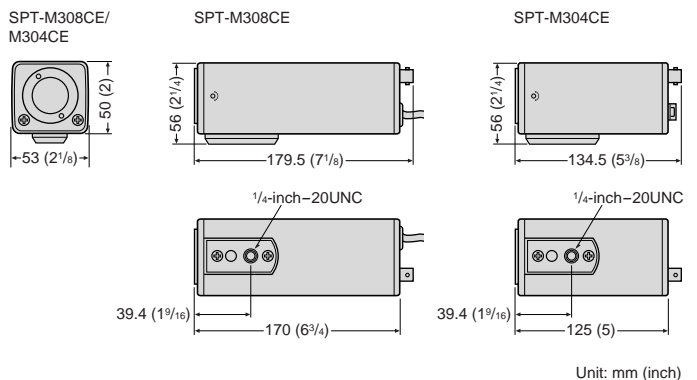
Rear Panel



Specifications

	SPT-M308CE	SPT-M304CE										
Image device:	1/3-inch Interline Transfer Hyper HAD CCD											
Picture elements:	752(H) × 582 (V)											
Sensing area:	4.4 × 3.3mm											
Signal system:	CCIR standard											
Sync system:	External with AC line lock											
Phase control:	V phase adjustment ($\pm 90^\circ$)											
Horizontal resolution:	570TV lines											
Lens mount:	C/CS mount adjustable											
Minimum illumination:	AGC ON 0.25 lx at F1.2 (50 IRE) (350mV)											
Automatic gain control : (AGC)	Always AGC ON											
CCD IRIS control:	ON/OFF switchable, 1/50 to 1/50000 (second)											
Backlight compensation:	Volume 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 240V, 50Hz	AC 24V, 50Hz										
Power consumption:	6.0W	4.5W										
Acceptable lens mass:	1kg (2lb 3oz) max.											
Mass:	700g (1lb 8oz)	350g (12.3oz)										
Auto iris type:	DC servo type											
Connectors:	VIDEO OUT (BNC)	VIDEO OUT (BNC), AC 24V terminals, GND										
	LENS (4-pin)	<table border="1"> <thead> <tr> <th>Pin</th> <th>DC servo</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Control (-)</td> </tr> <tr> <td>2</td> <td>Control (+)</td> </tr> <tr> <td>3</td> <td>Drive (+)</td> </tr> <tr> <td>4</td> <td>Drive (-) (GND)</td> </tr> </tbody> </table>	Pin	DC servo	1	Control (-)	2	Control (+)	3	Drive (+)	4	Drive (-) (GND)
Pin	DC servo											
1	Control (-)											
2	Control (+)											
3	Drive (+)											
4	Drive (-) (GND)											
Supplied accessories:	Lens connector, lens mount cap, operating instruction manual											

Dimensions:



Unit: mm (inch)

Features and specifications subject to change without notice.
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Hyper HAD and CCD IRIS are trademarks of Sony Corporation.

