











**SONY®**






Analog Surveillance Cameras

# Color Video Cameras

Model										
Image device	½-type CCD with Exwave HAD™ technology		½-type CCD with Exwave HAD™ technology		½-type CCD with Exwave HAD™ technology	½-type Super HAD™ CCD	½-type Super HAD™ CCD	½-type Super HAD™ CCD	½-CCD with DynaView™ technology	
Effective picture elements	440,000 Pixels (752H x 582V)	380,000 Pixels (768H x 494V)	440,000 Pixels (752H x 582V)	380,000 Pixels (768H x 494V)	440,000 Pixels (752H x 582V)	430,000 Pixels (752H x 582V)	370,000 Pixels (768H x 494V)	430,000 Pixels (752H x 582V)	430,000 Pixels (752H x 582V)	370,000 Pixels (768H x 494V)
Gain control	Turbo / Normal / Manual / Off		Turbo / Normal / Manual / Off		Turbo / Off Switchable	Turbo / Off Switchable	Turbo / Off Switchable	Turbo / Off Switchable	Normal / Turbo / Manual / Off Selectable	
White balance mode	ATW-pro / ATW / 3200K / 5600K / Manual		ATW-pro / ATW / 3200K / 5600K / Manual		ATW-pro / ATW / 3200K / 5600K / Manual	ATW	ATW	ATW	ATW pro / ATW / 3200K / 5600K / Manual / Dual WB Selectable	
Lens type	CS / C-mount, DC / Video servo auto iris		CS / C-mount, DC / Video servo auto iris		CS / C-mount, DC / Video servo auto iris	CS-mount, DC servo auto iris	CS-mount, DC servo auto iris	CS-mount, DC servo auto iris	CS-mount, DC / Video servo auto iris	
CCD iris	On / Off Switchable, 1/50 to 1/100000 (seconds)	On / Off Switchable, 1/60 to 1/100000 (seconds)	On / Off Switchable, 1/50 to 1/100000 (seconds)	On / Off Switchable, 1/60 to 1/100000 (seconds)	On / Off Switchable, 1/50 to 1/100000 (seconds)	On / Off Switchable, 1/60 to 1/100,000 s	On / Off Switchable, 1/60 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	
Backlight compensation	Spot / Weight / Off Switchable		Spot / Weight / Off Switchable		Spot / Weight / Off Switchable	On/Off Switchable	On/Off Switchable	On/Off Switchable	Dynaview™ / Spot / Weight / Off Selectable	
Day / Night function	No		No		No	No	No	No	Auto / External / Color / B&W Selectable	
Analog video output	BNC x 1, 1.0 Vp-p, 75 Ω, Sync negative		BNC x 1, 1.0 Vp-p, 75 Ω, Sync negative		BNC x 1, 1.0 Vp-p, 75 Ω, Sync negative	BNC x 1, 1.0 Vp-p, 75 Ω, Sync negative	BNC x 1, 1.0 Vp-p, 75 Ω, Sync negative	BNC x 1, 1.0 Vp-p, 75 Ω, Sync negative	BNC x 1, 1.0 Vp-p, 75 Ω, Sync negative	
Signal system	PAL	NTSC	PAL		PAL	PAL	PAL	PAL	PAL	NTSC
Sync system	Internal / VS / VD		Internal / AC line lock / VS		Internal / AC line lock / VS	Internal	AC Line lock	AC Line lock	Internal / AC Line lock	
Horizontal resolution	480 TV lines		480 TV lines		480 TV lines	480 TV lines	480 TV lines	480 TV lines	480 TV lines	
S/N ratio	More than 57 dB (AGC Off, Weight On)		More than 57 dB (AGC Off, Weight On)		More than 57 dB (AGC Off, Weight On)	More than 50 dB (AGC Off, Weight On)	More than 50 dB (AGC Off, Weight On)	More than 50 dB (AGC Off, Weight On)	More than 50 dB (AGC Off, Weight On)	
Min. illumination	0.4 lx (50IRE, F1.2, Turbo AGC On)		0.4 lx (50IRE, F1.2, Turbo AGC On)		0.4 lx (50IRE, F1.2, Turbo AGC On)	0.8 lx (50IRE, F1.2, Turbo AGC On)	0.8 lx (50IRE, F1.2, Turbo AGC On)	0.8 lx (50IRE, F1.2, Turbo AGC On)	Color: 0.8 lx (50IRE, F1.4, Turbo AGC On) B&W: 0.07 lx (50IRE, F1.4, Turbo AGC On)	
Mass	approx. 560 g (1.4 oz)		approx. 550 g (1.3 oz)		approx. 600 g (1.5 oz)	approx. 355 g (13 oz)	approx. 355 g (13 oz)	approx. 385 g (14 oz)	approx. 500 g (1 lb 2 oz)	
Dimensions (W x H)	70 x 57 x 260 mm (2 7/8 x 2 1/4 x 20 1/4 inches)		70 x 57 x 260 mm (2 7/8 x 2 1/4 x 20 1/4 inches)		70 x 57 x 260 mm (2 7/8 x 2 1/4 x 20 1/4 inches)	60 x 54 x 120 mm (2 3/8 x 2 1/4 x 4 3/4 inches)	60 x 54 x 120 mm (2 3/8 x 2 1/4 x 4 3/4 inches)	60 x 54 x 120 mm (2 3/8 x 2 1/4 x 4 3/4 inches)	70 x 57 x 129 mm (2 7/8 x 2 1/4 x 5 1/8 inches)	
Power requirements	Multiplexing with the YS-W170A / W270A, or DC 12 V ±10 %		AC 24 V ±10 %, 50 Hz or DC 12 V ±10 %		AC 220 to 240 V ±10 %, 50 Hz	DC 12 V ±10 %	AC 24 V ±10%, 60 Hz	AC 220 to 240 V ±10%, 50 Hz	AC 24 V ±10%, 50 Hz or DC 12 V ±10%	
Power consumption	4.6 W		4.4 W		3.4 W	3.2 W	3.6 W	4.0 W	5.8 W	
Operating temperature	-10 to 50°C (14 to 122°F)		-10 to 50°C (14 to 122°F)		-10 to 50°C (14 to 122°F)	-10 to 50°C (14 to 122°F)	-10 to 50°C (14 to 122°F)	-10 to 50°C (14 to 122°F)	-10 to 50°C (14 to 122°F)	
Storage temperature	-40 to 60°C (-40 to 140°F)		-40 to 60°C (-40 to 140°F)		-40 to 60°C (-40 to 140°F)	-40 to 60°C (-40 to 140°F)	-40 to 60°C (-40 to 140°F)	-40 to 60°C (-40 to 140°F)	-40 to 60°C (-40 to 140°F)	

# Color Video Cameras

		
SSC-DC598P	SSC-DC693P	SSC-DC698P
1/3-CCD with DynaView™ technology	1/3-CCD with DynaView+™ technology	1/3-CCD with DynaView™ technology
430,000 Pixels (752H x 582V)	388,800 Pixels (720H x 540V)	388,800 Pixels (720H x 540V)
Normal / Turbo / Manual / Off Selectable	Custom Selectable (Max:48 dB)	Custom Selectable (Max:48 dB)
ATW pro / ATW / 3200K / 5600K / Manual / Dual WB Selectable	ATW pro / ATW / Manual Selectable	ATW pro / ATW / Manual Selectable
CS-mount, DC/Video servo auto iris	CS-mount, DC/Video servo auto iris	CS-mount, DC/Video servo auto iris
On / Off Switchable, 1/50 to 1/100,000 s	On / Off Switchable, 1/50 to 1/100,000 s	On / Off Switchable, 1/50 to 1/100,000 s
Dynaview™ / Spot / Weight / Off Selectable	Dynaview+™ Off Selectable	Dynaview+™ Off Selectable
Auto / External / Color / B&W Selectable	Auto / External / Color / B&W Selectable	Auto / External / Color / B&W Selectable
BNC x 1, 1.0 Vp-p, 75 Ω, Sync negative	BNC x 1, 1.0 Vp-p, 75 Ω, Sync negative	BNC x 1, 1.0 Vp-p, 75 Ω, Sync negative
PAL	PAL	PAL
Internal / AC Line lock	Internal / AC Line lock	Internal / AC Line lock
480 TV lines	520 TV lines	520 TV lines
More than 50 dB (AGC Off, Weight On)	More than 50 dB (AGC Off)	More than 50 dB (AGC Off)
Color: 0.8 lx (50IRE, F1.4, Turbo AGC On) B&W: 0.07 lx (50IRE, F1.4, Turbo AGC On)	Color: 0.8 lx (50IRE, F1.2, AGC=High) B&W: 0.01 lx (50IRE, F1.2, AGC=High)	Color: 0.8 lx (50IRE, F1.2, AGC=High) B&W: 0.01 lx (50IRE, F1.2, AGC=High)
approx. 500 g (1 lb 2 oz)	approx. 420 g	approx. 420 g
70 x 57 x 129 mm (2 7/8 x 2 1/4 x 5 1/8 inches)	68.8 x 56 x 131 mm	68.8 x 56 x 131 mm
AC 220 to 240 V ±10%, 50 Hz	AC 24 V ±10%, 50 Hz or DC 12 V ±10%	AC 220 to 240 V ±10%, 50 Hz
5.8 W	8 W	8 W
-10 to 50°C (14 to 122°F)	-10 to 50°C (14 to 122°F)	-10 to 50°C (14 to 122°F)
-40 to 60°C (-40 to 140°F)	-40 to 60°C (-40 to 140°F)	-40 to 60°C (-40 to 140°F)

						
SSC-E413P	SSC-E418P	SSC-E433P	SSC-E438P	SSC-E473P	SSC-E473	SSC-E478P
1/3-type Super HAD™ CCD II	1/3-type Super HAD™ CCD II	1/3-type Super HAD™ CCD II	1/3-type Super HAD™ CCD II	1/3-type Interline Transfer CCD with Super Exwave™		1/3-type Interline Transfer CCD with Super Exwave™
440,000 Pixels (752H x 582V)	440,000 Pixels (752H x 582V)	440,000 Pixels (752H x 582V)	440,000 Pixels (752H x 582V)	440,000 Pixels (752H x 582V) PAL	370,000 Pixels (768H x 494V) NTSC	440,000 Pixels (752H x 582V) PAL
Turbo / Off Switchable	Turbo / Off Switchable	Turbo / Off Switchable	Turbo / Off Switchable	Turbo / Off Switchable		Turbo / Off Switchable
ATW	ATW	ATW-pro / ATW	ATW-pro / ATW	ATW-pro / ATW		ATW-pro / ATW
CS mount (C mount is mountable using adaptor)	CS mount (C mount is mountable using adaptor)	CS mount (C mount is mountable using adaptor)	CS mount (C mount is mountable using adaptor)	CS mount		CS mount
On / Off Switchable, 1/50 to 1/100,000 s	On / Off Switchable, 1/50 to 1/100,000 s	On / Off Switchable, 1/50 to 1/100,000 s	On / Off Switchable, 1/50 to 1/100,000 s	On / Off Switchable, 1/50 to 1/100,000 s		On / Off Switchable, 1/50 to 1/100,000 s
On/Off Switchable	On/Off Switchable	On/Off Switchable	On/Off Switchable	On/Off Switchable		On/Off Switchable
No	No	Auto (Day/Night Switching)	Auto (Day/Night Switching)	Auto/Manual Selectable		Auto/Manual Selectable
1.0 Vp-p, 75 Ω, sync negative	1.0 Vp-p, 75 Ω, sync negative	1.0 Vp-p, 75 Ω, sync negative	1.0 Vp-p, 75 Ω, sync negative	1.0 Vp-p, 75 Ω, sync negative		1.0 Vp-p, 75 Ω, sync negative
PAL	PAL	PAL	PAL	PAL	NTSC	PAL
Internal/Line Lock	Internal/Line Lock	Internal/Line Lock	Internal/Line Lock	Internal/Line Lock		Internal/Line Lock
540 TV lines	540 TV lines	540 TV lines	540 TV lines	540 TV lines		540 TV lines
Better than 50 dB (AGC Off, Weight On)	Better than 50 dB (AGC Off, Weight On)	Better than 50 dB (AGC Off, Weight On)	Better than 50 dB (AGC Off, Weight On)	Better than 50 dB (AGC Off, Weight On)		Better than 50 dB (AGC Off, Weight On)
0.3 lx (50 IRE, F1.2, AGC On)	0.3 lx (50 IRE, F1.2, AGC On)	Color: 0.4 lx / B&W: 0.05 lx (50 IRE, F1.2, AGC On)	Color: 0.4 lx / B&W: 0.05 lx (50 IRE, F1.2, AGC On)	Color: 0.55 lx / B&W: 0.05 lx (50IRE, F1.2, Turbo AGC On)		Color: 0.55 lx / B&W: 0.05 lx (50IRE, F1.2, Turbo AGC On)
360 g (13 oz)	385 g (13 oz)	390 g (14 oz)	410 g (14 oz)	380 g (12 oz)		400 g (12 oz)
60 x 53 x 120 mm (2 3/8 x 2 1/8 x 4 3/4 inches)	60 x 53 x 120 mm (2 3/8 x 2 1/8 x 4 3/4 inches)	60 x 53 x 124 mm (2 3/8 x 2 1/8 x 5 inches)	60 x 53 x 124 mm (2 3/8 x 2 1/8 x 5 inches)	60 x 53 x 240 mm (2 3/8 x 2 1/8 x 4 3/4 inches)		60 x 53 x 240 mm (2 3/8 x 2 1/8 x 4 3/4 inches)
AC 24 V +10%, 50 Hz or DC 12 V +10%	AC 220 V to 240 V +10%, 50 Hz	AC 24 V +10%, 50 Hz or DC 12 V +10%	AC 220 V to 240 V +10%, 50 Hz	AC 24 V +10%, 50 Hz or DC 12 V +10%		AC 220 V to 240 V ±10%, 50 Hz
3.5 W	3.5 W	4 W	4 W	4 W		4 W
-10 to 50°C (14 to 122°F)	-10 to 50°C (14 to 122°F)	-10 to 50°C (14 to 122°F)	-10 to 50°C (14 to 122°F)	-10 to 50°C (14 to 122°F)		-10 to 50°C (14 to 122°F)
-40 to 60°C (-40 to 140°F)	-40 to 60°C (-40 to 140°F)	-40 to 60°C (-40 to 140°F)	-40 to 60°C (-40 to 140°F)	-40 to 60°C (-40 to 140°F)		-40 to 60°C (-40 to 140°F)

# Fixed Mini-dome Cameras

Model												
Image device	1/3-type CCD with Super HAD™ Technology		1/3-type CCD with DynaView™ Technology		1/4-type Super HAD™ CCD		1/3-type CCD with Super HAD™ Technology		1/3-type CCD with Super Exwave™ Technology		1/3-type CCD with DynaView™ Technology	
Effective picture elements	440,000 Pixels (752H x 582V)	380,000 Pixels (768H x 494V)	440,000 Pixels (752H x 582V)	380,000 Pixels (768H x 494V)	440,000 Pixels (752H x 582V)	380,000 Pixels (768H x 494V)	440,000 Pixels (752H x 582V)	380,000 Pixels (768H x 494V)	440,000 Pixels (752H x 582V)	380,000 Pixels (768H x 494V)	440,000 Pixels (752H x 582V)	380,000 Pixels (768H x 494V)
Gain control	On/Off		On/Off		Turbo AGC (up to 24 dB) / Off Switchable		On/Off		On/Off		On/Off	
White balance mode	ATW / ATW Pro		ATW / ATW Pro		ATW		ATW / ATW Pro		ATW / ATW Pro		ATW / ATW Pro	
Lens type	Auto iris vari-focal lens		Auto iris vari-focal lens		Auto iris vari-focal lens		Auto iris vari-focal lens		Auto iris vari-focal lens		Auto iris vari-focal lens	
Zoom ratio	3.6x optical zoom (1.5x digital zoom)		3.6x optical zoom (1.5x digital zoom)		-		3.6x optical zoom (1.5x digital zoom)		3.6x optical zoom (1.5x digital zoom)		3.6x optical zoom (1.5x digital zoom)	
Horizontal viewing angle	100.8 to 27.7°		100.8 to 27.7°		W=84.6°(D), 66.6°(H), 49.3°(V) / T=33.8°(D), 27°(H), 20.2°(V)		100.8 to 27.7°		100.8 to 27.7°		100.8 to 27.7°	
Focal length	f=2.8 to 10.0 mm		f=2.8 to 10.0 mm		f=3.0 to 8.0 mm		f=2.8 to 10.0 mm		f=2.8 to 10.0 mm		f=2.8 to 10.0 mm	
Backlight compensation	On/Off		DynaView™ On/Off		On (Center measured) / Off Switchable		On/Off		On/Off		DynaView™ On/Off	
Day / Night function	No		No		Yes		No		Auto / External control (Day / Night Switching)		Auto / External control (Day / Night Switching)	
Analog video output	BNC x1, 1.0 Vp-p, 75 Ω, RCA x 1		BNC x1, 1.0 Vp-p, 75 Ω, RCA x 1		BNC x1, 1.0 Vp-p, 75 Ω, RCA x 1		BNC x1, 1.0 Vp-p, 75 Ω, RCA x 1		BNC x1, 1.0 Vp-p, 75 Ω, RCA x 1		BNC x1, 1.0 Vp-p, 75 Ω, RCA x 1	
Signal system	PAL	NTSC	PAL	NTSC	PAL	NTSC	PAL	NTSC	PAL	NTSC	PAL	NTSC
Sync system	AC Line Lock / Internal Lock		AC Line Lock / Internal Lock		Internal or AC line lock (for AC 24 V)		AC Line Lock / Internal Lock		AC Line Lock / Internal Lock		AC Line Lock / Internal Lock	
Horizontal resolution	540 TV lines		480 TV lines		480 TV lines		540 TV lines		540 TV lines		480 TV lines	
S/N ratio	more than 50 dB (AGC ON / Weight On)		more than 50 dB (AGC ON / Weight On)		more than 50 dB (AGC ON / Weight On)		more than 50 dB (AGC ON / Weight On)		more than 50 dB (AGC ON / Weight On)		more than 50 dB (AGC ON / Weight On)	
Min. illumination	0.9 lx (50IRE, F1.3, AGC On)		0.7 lx (50IRE, F1.3, AGC On)		Color 0.4 lx at F1.0 / B&W 0.1 lx at F1.0 (30 IRE, AGC On) Color 0.9 lx at F1.0 / B&W 0.2 lx at F1.0 (50 IRE, AGC On)		0.9 lx (50IRE, F1.3, AGC On)		Color: 0.6 lx (50IRE, F1.3, AGC On) B&W: 0.06 lx (50IRE, F1.3, AGC On)		Color: 0.7 lx (50IRE, F1.3, AGC On) B&W: 0.15 lx (50IRE, F1.3, AGC On)	
Mass	approx. 440 g (15 lb)		approx. 440 g (15 lb)		Approx. 1150 g (2 lb 2 oz)		approx. 1.75 kg (3 lb 11 oz)		approx. 1.75 kg (3 lb 11 oz)		approx. 1.3 kg (2 lb 13 oz)	
Dimensions (W x H)	approx. 126 x 97 mm (5 x 3 7/8 inches)		approx. 126 x 97 mm (5 x 3 7/8 inches)		147 x 111 x 148 mm (5 7/8 x 4 3/8 x 5 7/8 inches)		approx. 177 x 141 mm (7 x 5 5/8 inches)		approx. 177 x 141 mm (7 x 5 5/8 inches)		approx. 150 x 119 mm (6 x 4 inches)	
Power requirements	AC24V / DC12V		AC24V / DC12V		AC 24 V +/-10% or DC 12 V +/-10% (Automatically switched)		AC24V / DC12V		AC24V / DC12V		AC24V / DC12V	
Power consumption	4.0 W max.		4.2 W max.		3.6 W max.		4 W max. (16 W with heater option)		4 W max. (16 W with heater option)		4 W max. (16 W with heater option)	
Operating temperature	-20 to 50 °C (-4 to 122 °F)		-20 to 50 °C (-4 to 122 °F)		-20 to 50 °C (-4 to 122 °F)		-20 to 50 °C (-4 to 122 °F)		-20 to 50 °C (-4 to 122 °F)		-20 to 50 °C (-4 to 122 °F)	
Storage temperature	-40 to 60 °C (-40 to 140 °F)		-40 to 60 °C (-40 to 140 °F)		-40 to 60 °C (-40 to 140 °F)		-40 to 60 °C (-40 to 140 °F)		-40 to 60 °C (-40 to 140 °F)		-40 to 60 °C (-40 to 140 °F)	

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