

SONY

**SONY
SECURITY
SYSTEMS**



**1999
PRODUCTS**

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B/W CCD Cameras

SSC-M370/SSC-M374

- 1/2" Hyper HAD® high resolution CCD B/W camera (768 x 494)
- 570 line horizontal resolution
- Excellent sensitivity (minimum scene illumination of 0.3 lux* at F1.2)
- Wide range electronic CCD IRIS® function (1/60 ~ 1/100,000 sec.) allows use of inexpensive manual iris lenses
- C-mount capability
- Accepts video type auto iris lenses
- AC 24V Line Lock with V-phase for SSC-M374
- Single cable power-over-coax and sync multiplex with Optional YS-W150 or YS-W250 camera adaptor, or DC 12V for SSC-M370
- VS Genlock & secondary video output (when optional power adaptor is used) capability on the SSC-M370



Hyper HAD CCD

SSC-MX34

- 1/2" Hyper HAD CCD Imager (768 x 494)
- Built-in 12x optical preset zoom lens (5.4-64.8mm)
- Newly developed DSP provides 570 lines of horizontal resolution
- High sensitivity - 0.2 lux at F1.8 (30 IRE); 0.4 lux at F1.8 (50 IRE)
- One push auto focus
- Selectable backlight compensation - full screen by Smart Control® or spot
- Accepts 6V or 12V DC lens controllers or receiver/drivers
- Auto/remote iris functions
- Internal or line lock w/ ±90° V-Phase adjustment



Hyper HAD CCD

SPT-M314

- 1/3" Hyper HAD high resolution CCD B/W camera (768H x 494V)
- 570 line horizontal resolution
- High sensitivity (0.5 lux F1.2, 50 IRE, 0.06 lux F1.2, 20 IRE)
- CCD IRIS function (1/60 ~ 1/50,000 sec.)
- Adjustable level and peak for back light compensation on CCD Iris mode
- AC line lock synchronization with V-Phase
- Accepts C and CS lenses with precision double cam
- Auto iris lens capability (DC Driven)
- Compact design: 5" (125mm) length



Hyper HAD CCD

SPT-M124

- 1/3" Hyper HAD CCD B/W camera (510 x 492)
- 380 line horizontal resolution
- Excellent sensitivity (minimum scene illumination of 0.1 lux* at F1.2)
- Wide range electronic CCD IRIS function (1/60 ~ 1/100,000 sec.)
- Adjustable level and peak to average light compensation in CCD IRIS mode
- C/CS-mount with easy "thumbwheel" back focus adjustment
- Accepts DC and video type auto iris lenses
- AC 24V Line Lock with V-phase
- Compact design: 4 7/8" (125mm) length



Hyper HAD CCD

*Minimum Illumination: There is no standard procedure for testing minimum illumination.

Color CCD Cameras

SSC-DC50A/SSC-DC54A



EXWAVE HAD CCD

- 1/2" High resolution EXWAVE® HAD CCD (768 x 494)
- 470 lines of horizontal resolution
- EXWAVE HAD CCD achieves over 2x sensitivity compared to conventional cameras
- 0.8 lux at F1.2 (50 IRE, Turbo Gain® AGC ON) or 0.4 lux at F1.2 (30 IRE, Turbo AGC ON)
- Smear level of -120 dB; results in 1/50th the amount compared to current cameras
- Excellent S/N – better than 50dB (Weight ON)
- Backlight compensation by Smart Control
- Preset Auto Exposure (AE) settings
- ATW PRO/ATW/AWB/preset color temperature settings
- Composite and Y/C outputs
- Full genlock capability
- Wide range CCD IRIS (1/60 ~ 1/100,000 sec.)
- C/CS mount
- Accepts video or DC auto iris lenses
- AC 24V Line Lock with ±90 V-Phase on the SSC-DC54A
- DC 12V or triple multiplex (video, power, sync) capability (SSC-DC50A) via optional YS-W150 or YS-W250

SSC-C370/SCC-C374



Hyper HAD CCD

- 1/2" Hyper HAD high resolution CCD color camera (768 x 494)
- 470 line horizontal resolution
- High sensitivity (minimum scene illumination of 2.5 lux* at F1.2)
- Wide range electronic CCD IRIS (1/60 ~ 1/100,000 sec.)
- C-mount capability
- Accepts video type auto iris lenses
- AC 24V Line Lock operation with V-phase on the SSC-C374
- Auto Tracking White (ATW) and Auto White Balance (AWB) modes
- Single cable power-over-coax and sync multiplex with Optional YS-W150 or YS-W250 camera adaptor, or DC 12V for SSC-C370
- VS Genlock & secondary video output (when optional power adaptor is used) capability on the SSC-C370

SSC-DC10/SSC-DC14



Hyper HAD CCD

- 1/3" Hyper HAD CCD high resolution imager (768 x 494)
- Provides 470 lines of horizontal resolution
- Digital Signal Processing with Smart Control (Automatic backlight compensation & ATW Pro)
- ATW modes: ATW Pro & wide range ATW (2,000°K to 10,000°K)
- Accepts video or DC type auto-iris lenses
- Wide range CCD Iris (1/60 to 1/100,000 sec.)
- High sensitivity -1.7 lux at F1.2, 50 IRE
- C/CS mount
- Internal/External sync selection
- AC 24V Line Lock with ±90° V-Phase adjustment (SSC-DC14)
- Power, sync, video multiplex capability with optional YS-W150/W250 (SSC-DC10)

CVX-V1



- 1/4" Color CCD Camera
- Thumb sized small and light camera head
- CCU attaches directly to ZBOX-2 Incident Recorder
- Built-in 3.9mm F1.8 w/ manual focus and iris
- 2 lux minimum illumination
- 470 lines of resolution
- 2 meter cable (6.5 feet) between camera head and CCU
- Variable shutter speed dial on CCU
- AE Lock mode (ON/OFF selectable from CCU)

Color CCD Cameras

CVX-V3

- 1/4" Color CCD Camera
- 3x manual zoom lens - 3.5 to 10.5mm F2.8-4.0, fixed focus
- 470 lines resolution
- Built-in stereo microphone
- Min. illumination of 5 lux
- Programmed AE modes, selectable from dial on CCU
- 2 meter cable (6.5 feet) between camera head and CCU
- Splash resistant camera head
- Attaches directly to ZBOX-2 Incident Recorder



SSC-C104

- 1/3" Hyper HAD CCD (510H x 492V picture elements)
- Turbo Gain AGC feature for high sensitivity (1.0 lux at F1.2)
- Backlight compensation
- Wide range CCD IRIS function (1/60 ~ 1/100,000 sec.) with level control
- C/CS mount with easy "thumbwheel" back focus adjustment
- Accepts video and DC type auto iris lenses
- Wide range auto-tracking white balance (ATW) of 2,000° to 10,000°K
- AC 24V Line Lock with $\pm 90^\circ$ V-Phase adjustment capability



Hyper HAD CCD

SSC-CX34

- 1/3" Hyper HAD CCD Imager (768 x 494)
- Built-in 12X optical preset zoom lens (5.4mm - 64.8mm)
- Over 470 lines of resolution
- High sensitivity - 4.5 lux F1.8, 50 IRE
- AWB/ATW/ATW Pro White balance modes
- Backlight compensation by Smart Control and Turbo Gain AGC
- Built-in Zoom and Focus controls
- Auto/remote Iris functions
- Accepts 6V or 12V DC lens controllers or receiver/drivers
- Internal or Line Lock (60Hz) selectable
- AC 24V Line Lock with $\pm 90^\circ$ V-phase adjustment



Hyper HAD CCD

Power Adaptors

YS-W150

- Provides power/sync over coax to the camera
- Two isolated video outputs
- Built-in 3 position cable loss compensation, up to 1000ft (300m) on RG-59/U cable
- External sync in/out capability
- Internal or Line Lock source sync selection
- Compatible for use with SSC-M370, SSC-C370, SSC-DC10 and SSC-DC50A cameras



Power Adaptors

YS-W250



- Provides power-over-coax and sync multiplex capabilities for up to four cameras
- Two isolated video outputs per camera input
- Internal or line lock sync selection
- External sync in and out capability
- Built-in cable loss compensation
- Applicable cameras: SSC-M370, SSC-C370, SSC-DC10 and SSC-DC50A

Lenses

1/2" Format Lenses

B/W Cameras

Color Cameras

MODEL NUMBER	LENS MOUNT			SSC-M370/ SSC-M374			SSC-C370/ SSC-C374	SSC-DC10/ SSC-DC14	SSC-DC50A/ SSC-DC54A
		SPT-M124	SPT-M314		SSC-C104				
VCL-S03XM	C	•	•	✓	•	✓	•	✓	
VCL-S06XM	C	•	•	✓	•	✓	•	✓	
VCL-S12XM	C	•	•	✓	•	✓	•	✓	
VCL-S03XEA	C			✓	•	✓	•	✓	
VCL-S06XEA	C			✓	•	✓	•	✓	
VCL-S12XEA	C			✓	•	✓	•	✓	
DF-35BSND41/1	C			✓	•	✓	•	✓	
DF-6BSND41/1	C			✓	•	✓	•	✓	
DF-12BSND41/1	C			✓	•	✓	•	✓	
DF-28BSND41/1	C			✓	•	✓	•	✓	
12PZA10X8	C			✓	•	✓	•	✓	

1/3" Format Lenses

B/W Camera

Color Cameras

MODEL NUMBER	LENS MOUNT				
		SPT-M124	SPT-M314	SSC-C104	SSC-DC10/DC14
VCL-P28MCS	CS	✓	✓	✓	✓
VCL-P4MCS	CS	✓	✓	✓	✓
VCL-P8MCS	CS	✓	✓	✓	✓
VCL-P28AICS	CS	✓	✓	✓	✓
VCL-P4AICS	CS	✓	✓	✓	✓
VCL-P8AICS	CS	✓	✓	✓	✓
13PZG10X6	CS	✓	✓	✓	✓

CS-Mount Auto Iris Lenses are DC (Non-ALC) Type

- Field of view will be narrower

✓ Suitable for use

Accessories

CAMERA BRACKET

- CB101 6" Camera mounting bracket, wall or ceiling mount

Intelligent Components

YS-S6/A

- 6 camera input sequential switcher
- Six video inputs with loop-through, and one switched output
- Sequential and spot monitor modes
- Variable dwell time
- DC 9V operation, AC adaptor included



YS-DX316/YS-DX216

- 16 camera input duplex multiplexers
 - YS-DX316: Color
 - YS-DX216: Monochrome
- 16 auto-terminating/looping camera inputs
- High picture quality (360 TV lines)
- Simultaneous live monitoring and VCR playback on 13 division or 16 division split mode, or vice versa
- VCR mode allows viewing of VCR on screen functions/setup
- Freeze/Still mode and 2X electronic zoom, position selectable
- Second monitor output provided for alarm display
- Video loss detection, and alarm log for up to 100 records
- Composite and Y/C input/output for VCR hookup (Y/C for YS-DX316 only)
- Compact 1 rack unit high, rack ears provided



YS-SX310/YS-SX210

- 10 camera input Simplex multiplexer
 - YS-SX310: Color
 - YS-SX210: Monochrome
- 10 auto-terminating/looping camera inputs
- High picture quality (360 TV lines)
- VCR mode allows viewing of VCR on screen functions/setup
- Freeze/Still mode and 2X electronic zoom, position selectable
- Split-screen monitoring only or on playback
- Auto Quad screen switching on monitoring or playback modes
- Video loss detection, and alarm log for up to 100 records
- Accepts external trigger for switching
- Compact 1 rack unit high, rack ears provided



B/W Monitors

SSM-930



- 9" (viewable area, measured diagonally) high resolution B/W monitor
- Over 750 lines of horizontal resolution
- Loop-through video input with switchable 75-ohm termination
- DC clamp switch provides a stable reference for black level
- 19-inch EIA standard rack mountable

OPTIONAL ACCESSORIES

MB-900 Rack Kit, Accepts 2 SSM-930 (5 rack units high)
BP-900 Blank Panel, if only 1 monitor is used

SSM-125



- 12" (viewable area, measured diagonally) high resolution B/W monitor
- Over 750 lines of horizontal resolution
- Loop-through video input with switchable 75-ohm termination
- Two video inputs A/B switchable on front panel
- 19" rack mount capable

OPTIONAL ACCESSORIES

SMB-121 Rack Kit (7 rack units high)

SSM-175



- 17" (viewable area, measured diagonally) high resolution B/W monitor
- Over 850 lines of horizontal resolution
- Two video inputs switchable on front panel
- Loop-through with switchable 75-ohm termination
- DC clamp switch provides a stable reference for black level
- 19" rack mountable

OPTIONAL ACCESSORIES

RMM-171 Rack Ears (9 rack units high)

Accessories

RACK MOUNT ADAPTORS

- **MB-900** 19" Rack Mount Adaptor for dual SSM-930 configuration. Front trim panel included (5 rack units high)
- **BP-900** Blank Panel for MB-900 when only one SSM-930 is used with the MB-900
- **SMB-121** 19" Rack Mount Adaptor for SSM-125 (7 rack units high)
- **RMM-171** Rack Ears for the SSM-171 (9 rack units high)

Color Monitors

SSM-8040

- 8" (viewable area, measured diagonally) Trinitron® color monitor
- 250 lines of horizontal resolution
- Beam current feedback for stable white balance
- Composite looping video input w/ 75-ohm termination
- 19" rack mount capability with optional MB-507/A

OPTIONAL ACCESSORIES

MB-507//A Rack Kit (5 rack units high)

MB-509//A Blank Panel



Trinitron

PVM-8041Q

- 8" (viewable area, measured diagonally) Trinitron color monitor
- AC/DC operation
- 250 lines of horizontal resolution
- Beam current feedback for stable white balance
- Composite, Y/C and RGB/Component inputs
- Blue only mode for easy chroma/phase adjustment
- 3 audio inputs
- Underscan capability
- 19" rack mount capability with optional MB-507//A

OPTIONAL ACCESSORIES

NP-1B Battery Pack

BC-1WD Charger Unit for 4 NP-1B battery packs

MB-507//A Rack Kit (5 rack units high)

MB-509//A Blank Panel



Trinitron

SSM-14N5U

- 14" (viewable area, measured diagonally) Fine Pitch Trinitron color monitor
- Over 500 lines of horizontal resolution
- Accepts NTSC, PAL, SECAM, & NTSC_{4.43}
- Loop-through Composite and Y/C inputs, auto-terminating
- On Screen Menu Operation
- Built-in speaker for audio monitoring
- Auto beam current feedback for color stability

OPTIONAL ACCESSORIES

MB-14N1U Rack Kit



Trinitron

MONITORS

Color Monitors

SSM-20N5U



Trinitron

- 20" (viewable area, measured diagonally) Fine Pitch Trinitron® color monitor
- Over 500 lines of horizontal resolution
- Accepts NTSC, PAL, SECAM, & NTSC_{4.43}
- Loop-through Composite and Y/C inputs, auto-terminating
- On-Screen Menu Operation
- Built-in speaker for audio monitoring
- Auto beam current feedback for color stability

OPTIONAL ACCESSORIES

SLR-103A Slide Rail Kit for mounting onto 19" rack

Accessories

RACK MOUNT ADAPTORS

- **MB-507//A** 19" Rack Mount for pair of SSM-8040 or SSM-8041Q (5 rack units)
- **MB-509//A** Blank Panel for use with MB-507 when only one SSM-8040 or SSM-8041Q is mounted
- **SLR-103A** Slide Rail Kit for use with SSM-20N5U
- **MB-14N1U** 19" Rack Kit for SSM-14N5U (8 rack units)

VIDEO RECORDERS

Time Lapse VCRs

SVT-S3100



- Up to 168 hours (1 week) record/playback capability
- S-VHS format provides over 400 lines of horizontal resolution
- Adaptive Picture Control (APC) provides optimum recording
- Auto-head cleaning capability
- Optional RS-232C interface board (SVT-RS1A) for computer control
- Video loop out capability on power off mode
- Warning signals for tape before end and tape jam
- 30 day battery backup capability
- Audio recording from 2 to 24 hour modes

OPTIONAL ACCESSORIES

SVT-RS1A RS-232C Interface Board
SMB-5000 19" Rack Kit (3 rack units high)
MQST120 S-VHS Tape, 120 minutes
SVT-RM10 Wired Remote Control Unit

Time Lapse VCRs

SVT-5050

- Up to 960 hours (T-120) plus 1 shot mode
- Over 300 lines (color), 350 lines (B/W) horizontal resolution
- RS-232C control via optional SVT-RS1A
- Adaptive Picture Control (APC) for optimum head to tape match
- Audio recording in 2, 12 and 24 hour modes
- Loop-through video on power off mode
- Menu driven settings - no video input necessary for setup
- Time/date search, alarm scan/log capable
- Field advance/reverse playback capability
- Built-in time/date generator, 30 day battery backup
- Clock set in/out - Synchronizes time setting on multiple decks

OPTIONAL ACCESSORIES

SVT-RM10 Wired Remote Control Unit

T-120TLV Professional Grade VHS Tape, 120 minutes

SMB-5000 19" Rack Kit (3 Rack Units High)



SVT-3050/1

- Up to 168 hours (1 week) record/playback capability (T-120)
- Over 300 lines (color), 350 lines (B/W) horizontal resolution
- RS-232C control via optional SVT-RS1A
- Adaptive Picture Control (APC) for optimum head to tape match
- Audio recording in 2, 12 and 24 hour modes
- Loop-through video on power off mode
- Menu driven settings - no video input necessary for setup
- Alarm scan/log capability
- Field advance playback capability
- Built-in time/date generator, 30 day battery backup
- Clock set in/out - Synchronizes time setting on multiple decks
- Vertical (side) operation

OPTIONAL ACCESSORIES

SVT-RM10 Wired Remote Control Unit

T-120TLV Professional Grade VHS Tape, 120 minutes

SMB-5000 19" Rack Kit (3 Rack Units High)



SVT-124

- 2, 12, 24 hour recording/playback modes (T-120)
- Adaptive Picture Control (APC)
- Audio recording in 2, 12 or 24 hour modes
- Auto repeat and Timer recording capabilities
- Alarm recording from Stop or Power Off modes
- Record check, Alarm log, alarm scan capabilities
- Compact size - only 9 1/2" wide
- 30 day battery backup for power failure protection
- Host of reliable safety functions - Security lock, overwrite inhibit, clog detection, warning out
- Tape before end signal output

OPTIONAL ACCESSORIES

SVT-RM10 Wired Remote Control Unit

T-120TLV Professional Grade VHS Tape, 120 minutes

SMB-240 19" Rack Kit



“Real Action” Time Lapse VCRs

SVT-L200



- 8/24/40 hour modes (60/20/12 fields per second) on T-160
- Over 300 lines (color), 320 lines (B/W) horizontal resolution
- Adaptive Picture Control (APC) for optimum head to tape match
- Loop-through video on power off mode
- Menu driven settings - no video input necessary
- Record Check function
- Holiday/Daylight Savings Time settings
- RS-232C control via optional SVT-RS1A
- Built-in time/date generator, 30 day battery backup
- Series in/out capability plus tape before end signal
- Auto repeat recording
- Provides switch pulse output, external time input
- Clock set in/out - Synchronizes time settings on multiple decks

OPTIONAL ACCESSORIES

SVT-RM10 Wired Remote Control Unit

T-120TLV Professional Grade VHS Tape, 120 minutes

SMB-5000 19" Rack Kit (3 Rack Units High)

SVT-LC300



- 96 hour high density time lapse recording
- Compact body - 240mm width
- Adaptive Picture Control (APC)
- Horizontal resolution of 350 lines B/W, 300 lines Color
- Time/Date Search, Alarm Scan, Alarm Recall
- Field by field playback
- 30 day battery backup
- Clog Detection, auto head cleaning
- Tape end/Tape before end outputs
- Clock set in/out capability

OPTIONAL ACCESSORIES

SVT-RM10 Wired Remote Control Unit

T-120TLV Professional Grade VHS Tape, 120 minutes

SMB-240 19" Rack Kit

SVT-L400



- 168 hour high density recording using “Real Action” Technology
- Adaptive Picture Control (APC) for optimum head to tape match
- Over 300 lines (color), 350 lines (B/W) horizontal resolution
- RS-232C control via optional SVT-RS1A
- Audio recording in 2, 12 & 24 hour modes
- Series in/out capability plus tape before end signal
- Reliable safety functions like record check, security lock, auto head cleaning, clog detection & warning outputs
- Time/date search, alarm scan/log capable
- Auto repeat and timer recording capabilities
- Clock set in/out - Synchronizes time setting on multiple decks

OPTIONAL ACCESSORIES

SVT-RM10 Wired Remote Control Unit

T-120TLV Professional Grade VHS Tape, 120 minutes

“Real Action” Time Lapse VCRs

SVT-DL224

- DC 12V operation
- 8 or 24 hour recording/playback modes (T-160)
- High density recording in 24 hour mode – 20 fields per second
- Adaptive Picture Control (APC)
- Alarm recording from Stop or Power Off modes
- Compact size - only 9½" wide
- 30 day battery backup for power failure protection
- Host of reliable safety functions - security lock, overwrite inhibit, clog protection, warning unit

OPTIONAL ACCESSORIES

SVT-RM10 Wired Remote Control Unit
T-120TLV Professional Grade VHS Tape, 120 minutes



VHS Video Cassette Recorder

SVO-1320

- DA PRO-4 head design for excellent picture quality
- High picture quality with HQ circuitry
- High speed FF/REW time - 2-1/2 minutes with a T-120
- Auto-head cleaning - helps prevent head clogging & deterioration of picture quality
- Digital auto tracking helps eliminate the need for manual adjustment
- Dual Mode Shuttle (DMS) control facilitates picture search and operation
- Key inhibit function helps prevent misoperation



8mm VCRs

EVT-820

- 8mm color extended band still-frame time lapse VCR
- Noiseless still-frame/field playback
- Built-in time date generator, 4-position selectable
- Matrix timer allows timer recordings of 21 events per week for 3 different recording speeds
- Up to 760 hours recording on P6-90MP 90 minute metal particle tape
- Alarm recall feature shows on-screen alarm events (up to 99)
- Alarm search allows one to go to alarmed segments automatically
- External timing signal for interfacing with switcher
- Capable of serial recording

OPTIONAL ACCESSORIES

MB-800 19" Rack Mount Adaptor
SLR-800 Slide Rail Kit



ZBOX-2

- The ZBOX-2 Incident Video Recorder consists of the EVO-250 Hi8™ Video Recorder and the PGV-250 Incident Recording Adaptor and is shown with the optional NP-80 battery.



VIDEO RECORDERS

8mm VCRs

EVO-250



- Hi8 format achieves over 400 lines of horizontal resolution
- Compact and lightweight
- Long battery operation (over 9 hours using NP-F950) w/ adoption of Lithium Ion battery system
- Direct attachment interface with the PGV-250 program unit
- 5 head system for high quality SP/LP mode recording
- LaserLink™ system for wireless IR transmission of A/V signals
- Supplied with DC-V700 DC pack/car battery adaptor
- Built-in time base corrector reduces jitter during playback
- Digital Noise Reducer digitally reduces chroma noise on playback

PGV-250



- Direct interface to EVO-250
- Built-in time/date generator superimposed to incoming video
- Composite or Y/C inputs
- Program Record mode allows flexible alarm handling recording for the EVO-250
- 2 channel Hi Fi audio recording capabilities
- Accepts microphone or line level audio inputs
- Flexible alarm handling and timer capabilities

OPTIONAL ACCESSORIES

AC-V615 AC Adaptor and Charger

AC-V700 Battery Charger with LCD remaining time indicator

DC-V700 Battery Charger - in car use

NP-F550 1500mAH InfoLithium Battery

NP-F750SP 3000mAH InfoLithium Battery

NP-F950 4500mAH InfoLithium Battery

Digital Video Recorder

HSR-1



- DV based digital recorder offers over 500 TV lines of resolution
- Offers excellent S/N of 48 dB
- Large storage capacity - 60 GBytes using DV270 tape
- High reliability and low maintenance utilizing hybrid configuration of hard disk and DV tape drive
- Built-in 4 input multiplexer board - field upgrade capable to 16 using 3 additional 4 input cards, HSRA-11
- Time/date and event search capabilities
- Excellent backup features - write to DV in case of HDD failure or vice versa
- Watermarking

VHS OPTIONAL ACCESSORIES

■ MQST120	S-VHS Tape for SVT-S3100
■ SVT-RS1A	RS-232C Interface Board for SVT-S3100, SVT-5050, SVT-3050/1, SVT-124, SVT-L200, SVT-L400
■ T-120TLV	Standard 2-hour VHS tape
■ T-160VE/F	160 min. (8 hrs. SLP mode) VHS tape for use with SVT-L200, SVT-L400, SVT-DL224, SVT-LC300
■ SMB-5000	19" Rack Kit for SVT-S3100, SVT-5050, SVT-3050/1 and SVT-L200, SVT-L400 (3 rack units high)
■ SMB-240	19" Rack Kit for SVT-124, SVT-DL224 and SVT-LC300
■ SVT-RM10	Wired Remote Control Unit (Cord Length 7ft., 10in.) for SVT-3050/1, SVT-5050, SVT-S3100, SVT-124, SVT-DL224, SVT-L200, SVT-L400, SVT-LC300

8MM OPTIONAL ACCESSORIES

■ MB-800	19" Rack Mount Adaptor for EVT-820, (2 rack units high)
■ SLR-800	Slide Rail Kit for EVT-820
■ P6-120MPD	120 Minute 8mm Videotape
■ RFU-89UCKA	Ch. 3/4 RF Modulator Unit for EVO-250
■ WCS-990	2 Channel Wireless Audio Transmitter/Receiver
■ AC-V615	AC Adaptor and Charger
■ AC-V700	Battery Charger w/ LCD remaining time indicator
■ DC-V700	Battery Charger w/ LCD for use in car
■ NP-F550	1500 mAH InfoLithium Battery
■ NP-F750SP	3000 mAH InfoLithium Battery

PRINTERS

B/W Video Printers

UP-880



- Small format B/W video printer
- Standard or side printing capability
- 256 shades of gray
- Multiple print modes: small and large, 1.5 or 2 times zoom
- High resolution, high density prints at 10.2 dots/mm
- Hard copy prints in less than 4 seconds
- Automatic selection of EIA (525 lines) or CCIR (625 lines) standards
- Choice of three thermal paper types: standard (UPP-110S/4) or high density (UPP-110HD), and UPP-110HA paper with wider dynamic range
- Approximately 230 prints per roll

UP-960/UP-980



- A4 B/W Thermal Printer
- High Resolution 1280 pixel thermal head
- True 256 gradations per dot
- Standard or side mode printing, single or 2 pictures per sheet
- High speed printing (10 sec./150mm EIA, 12 sec./150mm CCIR)
- Easy paper loading
- EIA/CCIR compatible
- UP-980 accepts both 15.75kHz and 31.5kHz composite video signals
- Worldwide power supply

Color Video Printer

UP-2100SD



- A6 size (approx. 4" x 3") dye sublimation transfer color printer
- Less than 75 second print time
- 256 gradations produce over 16 million colors per dot
- 150 dot per inch resolution
- Built-in 48 character caption capability
- 200 sheet paper tray capacity
- Composite and Y/C inputs and outputs
- 4 or 16 split memory capability

OPTIONAL ACCESSORIES

UPC-2010 Color print pack

Accessories

PRINTER ACCESSORIES

- **UPP-110S/4** Thermal printing paper for UP-880
- **UPP-110HD** High density thermal printing paper for UP-880
- **UPP-110HA** Newly developed printing paper with wider dynamic range for UP-880
- **UPP-210SE** Large format thermal printing paper for UP-960 & UP-980
- **UPP-210HD** High density printing paper for UP-960 & UP-980
- **UPC-2010/2** Thermal printing paper for UP-2100SD
- **RM-91** Remote print button
- **FS-20** Wired remote foot-switch

Video Transmitter

RSE-500/RSE-400

- ISDN video transmitter (RSE-400)/transceiver(RSE-500)
- H.320 Global video conferencing standard compression, Full CIF video
- S/T Interface, single BRI (128 kbps)
- V.35 data interface for up to 384kbps transmission
- Maximum frame rate of 30 frames per second
- 8 looping video inputs plus 1 external video input
- Three user selectable transmission modes - Fine, Normal or Fast
- 8 alarm inputs; up to 10 different phone numbers per input for auto dialing
- Data transparency capability - 2 separate ports; RS-232C/422A, RS-232C/RS-485
- Password and Receive check features
- RSE-500 transmits/receives audio, video and control data
- RSE-500 comes supplied with wired/wireless remote controller, RMR500
- RSE-400 transmits/receives audio and control data; transmits video



SPECIFICATIONS

B/W CCD Cameras

	SSC-M374	SSC-M370	SSC-MX34	SPT-M314	SPT-M124
PICKUP DEVICE	1/2" Hyper HAD Interline Transfer CCD	1/2" Hyper HAD Interline Transfer CCD	1/2" Hyper HAD Interline Transfer CCD	1/2" Hyper HAD Interline Transfer CCD	1/2" Hyper HAD Interline Transfer CCD
PIC. ELEMENTS (HxV)	768 x 494	768 x 494	768 x 494	768 x 494	510 x 492
LENS MOUNT	C	C	Built-in auto-iris motorized zoom 5.4mm-64.8mm F1.8	C and CS Adj.	C and CS Adj.
SIGNAL SYSTEM/ SCANNING SYS.	EIA 525/2:1	EIA 525/2:1	EIA 525/2:1	EIA 525/2:1	EIA 525/2:1
SYNC SYSTEM	Internal/ External	Internal/ External	Internal/ External	External	External
EXTERNAL SYNC	AC Line Lock	VS or Composite Sync	AC line lock	AC Line Lock	AC Line Lock
V-PHASE CONTROL	6-Position	No	±90°	±90°	±90°
HORIZONTAL RESOLUTION	570 Lines	570 Lines	570 Lines	570 Lines	380 Lines
S/N RATIO	50 dB (AGC Off)	50 dB (AGC Off)	50 dB (AGC On)	45 dB	45 dB
MIN. ILLUMINATION*	0.3 lux at F1.2	0.3 lux at F1.2	0.2 lux F1.8 (30IRE) 0.4 lux F1.8 (50IRE)	0.5 lux at F1.2, 50IRE 0.06 lux at F1.2, 20IRE	0.1 lux at F1.2
H-PHASE CONTROL	No	Yes	No	No	No
AGC	On/Off	On/Off	On/Off selectable plus Turbo On/Off	Automatic	Automatic
CCD IRIS	Yes 1/60 - 1/100,000 sec.	Yes 1/60 - 1/100,000 sec	No	Yes 1/60 - 1/50,000 sec.	Yes 1/60 - 1/100,000 sec.
VIDEO OUTPUT	1.0Vp-p, BNC x 1	1.0Vp-p, BNC x 1	1.0Vp-p, BNC x 1	1.0Vp-p, BNC x 1	1.0Vp-p, BNC x 1
ELECTRONIC SHUTTER	Variable, 8 Settings	Variable, 8 Settings	No	No	No
POWER REQUIREMENT	AC 24V ± 10%, 60Hz	DC 12V or Power Multiplex	AC 24V ± 10%, 60 Hz	AC 24V ± 10%, 60 Hz	AC 24V ± 10%, 60 Hz
POWER CONSUMPTION	3.9W	2.8W (DC 12V) 4.0W (YS-W150/250)	5.1W	4.5W	4.5W
WEIGHT	1 lb. 7 oz.	1 lb. 7 oz.	1 lb. 2 oz	12.3 oz	12 oz.
DIMENSIONS WxHxD, inch.(mm)	2 5/8" x 2 1/4" x 6 1/8" (64 x 57 x 155mm)	2 5/8" x 2 1/4" x 6 1/8" (64 x 57 x 155mm)	2 3/8" x 2 3/8" x 5 1/8" (60 x 60 x 129.5mm)	2 1/8" x 2" x 5" (53 x 50 x 123mm)	2 1/8" x 2" x 4 1/8" (53 x 50 x 123mm)

*Minimum Illumination: There is no standard procedure for testing minimum illumination.

Color CCD Cameras

	SSC-DC54A	SSC-DC50A	SSC-C374	SSC-C370	SSC-CX34	SSC-DC10	SSC-DC14	SSC-C104
PICKUP DEVICE	1/2" EXWAVE HAD Interline Transfer CCD	1/2" EXWAVE HAD Interline Transfer CCD	1/2" Hyper HAD Interline Transfer CCD	1/2" Hyper HAD Interline Transfer CCD	1/2" Hyper HAD Interline Transfer CCD	1/2" Hyper HAD Interline Transfer CCD	1/2" Hyper HAD Interline Transfer CCD	1/2" Hyper HAD Interline Transfer CCD
PIC. ELEMENTS (HxV)	768 x 494	768 x 494	768 x 494	768 x 494	768 x 494	768 x 494	768 x 494	510 x 492
LENS MOUNT	C and CS Adj.	C and CS Adj.	C	C	Built-in auto iris Motorized zoom 5.4mm - 64.8mm F1.8	C and CS Adj.	C and CS Adj.	C and CS Adj.
SIGNAL SYS. / SCANNING SYSTEM	NTSC 525/2:1	NTSC 525/2:1	NTSC 525/2:1	NTSC 525/2:1	NTSC 525/2:1	NTSC 525/2:1	NTSC 525/2:1	NTSC 525/2:1
COLOR MODE	AWB/ATW/ATW PRO/ PRESET 5600°K	AWB/ATW/ATW PRO/ PRESET 5600°K	AWB/ATW	AWB/ATW	ATW PRO/ ATW/AWB	ATW PRO/ ATW/AWB	ATW PRO/ ATW/AWB	ATW
SYNC SYSTEM	Internal/External	Internal/External	Internal/External	Internal/External	Internal/External	Internal/External	Internal/External	External
EXTERNAL SYNC	AC Line Lock, VS and VBS	VS and VBS/ MPX VS	AC Line Lock 60 hz	VS, Composite and Multiplex	AC line lock	VS, Composite and Multiplex	AC Line Lock, 60Hz	AC Line Lock
V-PHASE CONTROL	±90°	None	6-Position	None	±90°	None	±90°	±90°
H-PHASE CONTROL	Yes	Yes	No	Yes	No	Yes	No	No
SC PHASE ADJUSTMENT	360° with 1/180° switch	360° with 1/180° switch	—	—	—	—	—	—
HORIZONTAL RESOLUTION	470 Lines	470 Lines	470 Lines	470 Lines	470 Lines	470 Lines	470 Lines	330 Lines
S/N RATIO	Over 50 dB (AGC Off, Weight ON)	Over 50 dB (AGC Off, Weight ON)	48 dB (AGC Off)	48 dB (AGC Off)	Over 50 dB (AGC Off, Weight ON)	Better than 50 dB (Weight ON)	Better than 50 dB (Weight ON)	52 dB, AGC OFF (Weight ON)
MIN. ILLUMINATION	0.4 lux at F1.2 (30 IRE) 0.8 lux at F1.2 (50 IRE)	0.4 lux at F1.2 (30 IRE) 0.8 lux at F1.2 (50 IRE)	2.5 lux at F1.2	2.5 lux at F1.2	4.5 lux at F1.8 (50 IRE, Turbo AGC On) 2.4 lux at F1.8 (30 IRE, Turbo AGC On)	1.7 lux at F1.2 (50IRE)	1.7 lux at F1.2 (50IRE)	1.0 lux F1.2 (Turbo AGC On)
AGC	On/Off selectable plus Turbo AGC ON/OFF selectable	On/Off selectable plus Turbo AGC ON/OFF selectable	On/Off	On/Off	On/Off selectable Plus Turbo ON/OFF	On/Off selectable plus Turbo AGC ON/OFF selectable	On/Off selectable plus Turbo AGC ON/OFF selectable	Plus Turbo On/Off
CCD IRIS	Yes 1/60 - 1/100,000 sec.	Yes 1/60 - 1/100,000 sec.	Yes 1/60 - 1/100,000 sec.	Yes 1/60 - 1/100,000 sec.	No	Yes 1/60 - 1/100,000 sec.	Yes 1/60 - 1/100,000 sec.	Yes 1/60 - 1/100,000 sec.
VIDEO OUTPUT	Composite, BNC x 1 Y/C, Mini-Din x 1	Composite, BNC x 1 Y/C, Mini-Din x 1	1.0Vp-p, BNC x 1	1.0Vp-p, BNC x 1	1.0Vp-p, BNC x 1	1.0Vp-p, BNC x 1	1.0Vp-p, BNC x 1	1.0Vp-p, BNC x 1
ELECTRONIC SHUTTER	Variable, 8 Settings	Variable, 8 Settings	Variable, 8 Settings	Variable, 8 Settings	None	None	None	None
BACKLIGHT COMPENSATION	Smart Control plus/7 Preset areas	Smart Control plus/7 Preset areas	No	No	ON/OFF Switchable	Yes Smart Control	Yes Smart Control	Yes
POWER REQUIREMENT	AC 24V ± 10%	DC 12V or Multiplex	AC 24V ± 10%	DC 12V or Power Multiplex	AC 24V ± 10%, 60Hz	DC 12V or Power Multiplex	AC 24V, 60Hz	AC 24V ± 10%, 60Hz
POWER CONSUMPTION	6.0W	4.5W (DC 12V) 5.5W (Multiplex)	4.0W	3.1W (DC 12V) 4.3W (YS-W150/250)	4.8W	3.0W (DC 12V) 4.0W (YS-W150/250)	4.5W	3.5W
WEIGHT	1 lb. 5 oz. (600 g)	1 lb. 5 oz. (600 g)	1 lb. 7 oz. (660 g)	1 lb. 7 oz. (660 g)	1 lb. 2 oz. (520g)	15oz. (430g)	1 lb. 4 oz. (550g)	1 lb. 4 oz. (550g)
DIMENSIONS WxHxD, inch.(mm)	2 1/2" x 2 1/4" x 5 1/4" (64 x 57 x 137mm)	2 1/2" x 2 1/4" x 5 1/4" (64 x 57 x 137mm)	2 1/2" x 2 1/4" x 6 1/4" (64 x 57 x 155mm)	2 1/2" x 2 1/4" x 6 1/4" (64 x 57 x 155mm)	2 1/4" x 2 1/4" x 5 1/4" (60 x 60 x 129.5mm)	2 1/4" x 2 1/4" x 4 1/4" (70 x 57 x 110mm)	2 1/4" x 2 1/4" x 5 1/4" (70 x 57 x 130mm)	2 1/4" x 2 1/4" x 5 1/4" (70 x 57 x 130mm)

SPECIFICATIONS

Power Adaptors

	YS-W150	YS-W250
Compatible Models: SSC-M370 • SSC-C370 • SSC-DC10 • SSC-DC50A		
VIDEO OUTPUT	BNC x 2, composite video	BNC x 8 (2 Outputs/Camera) Composite Video
VIDEO INPUT	Camera In, BNC x 1	Camera In, BNC x 4
EXTERNAL SYNC	BNC X 2, VS or composite sync input/output	BNC X 2, VS or composite sync input/output
INTERNAL SYNC	Crystal or Line Lock selectable	Crystal or Line Lock selectable
MAX. CABLE LENGTH	1000 ft. using RG-59B/U • 1500 ft. using RG-6A/U • 2000 ft. using RG-11A/U	
CABLE COMPENSATION	3-Position	3-Position
POWER REQUIREMENT	AC 120V, 50/60 Hz	AC 120V, 50/60 Hz
POWER CONSUMPTION	15W	48W
OPERATING TEMPERATURE	14°F to 104°F	14°F to 104°F
WEIGHT	4 lbs. 3 oz.	7 lbs. 15 oz.
DIMENSIONS WxHxD, inch. (mm)	8 ³ / ₈ " x 2 ¹ / ₁₆ " x 13 ⁵ / ₈ " (212 x 52 x 345mm)	16 ³ / ₄ " x 2 ¹ / ₁₆ " x 13 ⁵ / ₈ " (424 x 52 x 345mm)

Lenses

Model			Iris			Field of View			
Number	Brand	Format	Mount	Manual	auto/type	focal length	F no.	Horizontal	Vertical
VCL-S03XM	Sony	1/2"	C	✓		3.6mm	1.6	92.6°	71.7°
VCL-S06XM	Sony	1/2"	C	✓		6.0mm	1.2	57.2°	43.7°
VCL-S12XM	Sony	1/2"	C	✓		12.0mm	1.2	29.5°	22.1°
VCL-S03XEA	Sony	1/2"	C		VIDEO	3.6mm	1.6	92.6°	71.7°
VCL-S06XEA	Sony	1/2"	C		VIDEO	6.0mm	1.2	57.2°	43.7°
VCL-S12XEA	Sony	1/2"	C		VIDEO	12.0mm	1.2	29.5°	22.1°
DF-35BSND41/1	Fujinon	1/2"	C		VIDEO	3.5mm	1.8	95.8°	75.1°
DF-6BSND41/1	Fujinon	1/2"	C		VIDEO	6.0mm	1.2	56.2°	43.6°
DF-12BSND41/1	Fujinon	1/2"	C		VIDEO	12.0mm	1.2	29.9°	22.6°
DF-28BSND41/1	Fujinon	1/2"	C		VIDEO	28.0mm	1.2	13.0°	9.8°
12PZA10X8	Tamron	1/2"	C		VIDEO	8-80mm	1.8	46.2-4.8°	34.8-3.7°
VCL-P28MCS	Cosmicar	1/3"	CS	✓		2.8mm	1.3	94.8°	71°
VCL-P4MCS	Cosmicar	1/3"	CS	✓		4.0mm	1.2	63.5°	49°
VCL-P8MCS	Cosmicar	1/3"	CS	✓		8.0mm	1.2	32.5°	24.8°
VCL-P28AICS	Cosmicar	1/3"	CS		DC	2.8mm	1.3	94.8°	
VCL-P4AICS	Cosmicar	1/3"	CS		DC	4.0mm	1.2	63.5°	49°
VCL-P8AICS	Cosmicar	1/3"	CS		DC	8.0mm	1.2	32.5°	24.8°
13PZG10X6	Tamron	1/3"	CS		DC	6-60mm	1.4	43.4-4.5°	32.7-3.5°

Intelligent Components

	YS-DX316	YS-DX216	YS-SX310	YS-SX210
MULTIPLEXER TYPE	Duplex Color	Duplex B/W	Simplex Color	Simplex B/W
NO. OF VIDEO INPUTS	16	16	10	10
VIDEO SIGNAL	NTSC Color	EIA B/W	NTSC COLOR	EIA B/W
VIDEO INPUT	BNC x 16, Composite Video	BNC x 16, Composite Video	BNC X 10, Composite Video	—
VCR INPUT	BNC x 1, Composite Video 4-pin Mini DIN X1, Y/C	BNC x 1, Composite Video	BNC x 1, Composite Video	BNC x 1, Composite Video
VCR OUTPUT	BNC x 1, Composite Video 4-pin Mini DIN X1, Y/C	BNC x 1, Composite Video	BNC x 1, Composite Video	BNC x 1, Composite Video
HORIZONTAL RESOLUTION	380 lines	380 lines	380 lines	380 lines
MONITOR OUTPUTS	BNC x 2, Composite Video	BNC x 2, Composite Video	BNC x 1, Composite Video	BNC x 1, Composite Video
MULTISCREEN ON REC	Yes, 5 modes	Yes, 5 modes	No	No
MULTISCREEN ON PB	Yes, 5 modes	Yes, 5 modes	Yes, 3 modes	Yes, 3 modes
SEQUENCE ON REC	Yes	Yes	Yes	Yes
SEQUENCE ON PB	Yes	Yes	Yes	Yes
DIGITAL STILL/ZOOM	Yes, 2X zoom	Yes, 2X zoom	Yes, 2X zoom	Yes, 2X zoom
ALARM INPUT	16	16	10	10
ALARM OUTPUT	1	1	1	1
VIDEO LOSS	Yes	Yes	Yes	Yes
BATTERY BACKUP	30 days	30 days	30 days	30 days
POWER REQUIREMENT	AC 120V, 60Hz	AC 120V, 60Hz	AC 120V, 60Hz	AC 120V, 60Hz
POWER CONSUMPTION	20W	16W	14W	12W
OPERATING TEMP.	32°-113° F	32°-113° F	32°-113° F	32°-113° F
WEIGHT	9lb. 4oz.	9lb. 4oz.	9lb. 4oz.	9lb. 4oz.
DIMENSIONS (WHD)	16 1/2" x 2 1/8" x 12 1/2" 420 x 54 x 320mm	16 1/2" x 2 1/8" x 12 1/2" 420 x 54 x 320mm	16 1/2" x 2 1/8" x 12 1/2" 420 x 54 x 320mm	16 1/2" x 2 1/8" x 12 1/2" 420 x 54 x 320mm

SPECIFICATIONS

B/W Monitors

	SSM-930	SSM-125	SSM-175
SCREEN SIZE (viewable area,measured diagonally)	9" (9")	12" (12")	17" (17")
TV SYSTEM	EIA	EIA	EIA
HORIZONTAL RESOLUTION	750 Lines	750 Lines	850 Lines
VIDEO INPUT	Composite Video (BNC x 1)	Composite Video A & B (BNC x 2)	Composite Video A & B (BNC x 2)
VIDEO OUTPUT	Composite Video (BNC x 1)	Composite Video (BNC x 2)	Composite Video (BNC x 2)
DC CLAMP	On/Off Selectable	On/Off Selectable	On/Off Selectable
POWER REQUIREMENT	AC 120V, 60Hz	AC 120V, 60Hz	AC 120V, 60Hz
POWER CONSUMPTION	27W	30W	35W
WEIGHT	13 lb. (5.8 kg)	20 lb. 5 oz.	38 lb. 9
DIMENSIONS WxHxD, inch. (mm)	8 ⁵ / ₈ " x 8 ³ / ₄ " x 9 ³ / ₄ " (219 x 220 x 246mm)	11 ³ / ₄ " x 12" x 11 ⁷ / ₈ " (296 x 303 x 301mm)	16 ³ / ₄ " x 16 ¹ / ₈ " x 15" (424 x 409 x 380mm)

Color Monitors

	SSM-8040	PVM-8041Q	SSM-14N5U	SSM-20N5U
SCREEN SIZE (viewable area, measured diagonally)	8" (8")	8" (8")	14" (13 1/8")	20" (19")
TV SYSTEM/ COLOR STANDARD	EIA NTSC	NTSC/PAL/ SECAM/NTSC ^{4.43}	NTSC/PAL/SECAM NTSC ^{4.43}	NTSC/PAL/SECAM NTSC ^{4.43}
HORIZONTAL RESOLUTION	250 Lines	250 Lines	500 Lines	500 Lines
VIDEO INPUT	BNC x 1, Composite Video	BNC x 2, Composite Video 4-Pin Mini DIN x 1, S-Video BNC x 3, RGB/Component	BNC x 1, Composite Video 4-Pin Mini DIN x 1, S-Video	BNC x 1, Composite Video 4-Pin Mini DIN x 1, S-Video
VIDEO OUTPUT	BNC x 1, Composite Video	BNC x 2, Composite 4-Pin Mini DIN x 1	BNC x 1, Composite Video 4-Pin Mini DIN x 1, S-Video	BNC x 1, Composite 4-Pin Mini DIN x 1, S-Video
EXTERNAL SYNC	No	Yes	None	None
AUDIO INPUT	No	Phono x 3	Phono x 1	Phono x 1
AUDIO OUTPUT	No	Phono x 2, Line A & B	Phono x 1, 500mVrms	Phono x 1
BUILT-IN SPEAKER	No	Yes	Yes	Yes
SPEAKER TERM.	None	None	None	None
POWER REQUIREMENT	AC 120V, 50/60Hz	DC 12V, AC 120V 50/60Hz	AC 100 to 240V, 50/60Hz**	AC 100 to 240V, 50/60Hz**
POWER CONSUMPTION	39W	40W	80W	100W
WEIGHT	17 lb. 3 oz.	16 lb. 9.5 oz. (7.5 kg)	33 lbs. (15 kg)	61 lbs. 10 oz. (28 kg)
DIMENSIONS WxHxD, inch. (mm)	8 1/2" x 8 1/2" x 14" (217 x 217 x 352.5mm)	8 7/8" x 8 7/8" x 14" (217 x 217 x 352.5mm)	13 5/8" x 13 3/8" x 16 15/16" (346 x 340 x 414mm)	17 11/16" x 17 3/8" x 19 1/4" (449 x 441 x 502mm)

** UL listed for 120V AC, 60Hz operation only

SPECIFICATIONS

Time Lapse VCRs

	SVT-S3100	SVT-5050	SVT-3050/1	SVT-124	EVT-820
TAPE FORMAT	S-VHS or VHS	VHS	VHS	VHS	8mm
RECORDING SYSTEM	Dual Azimuth Rotary 4-Head Helical Scanning System	Rotary 4-Head Helical Scanning System	Rotary 4-Head Helical Scanning System	Rotary 4-Head Helical Scanning System	Rotary 2-Head Helical Scan, Still-Frame Recording System
VIDEO SIGNAL	EIA/NTSC	EIA/NTSC	EIA/NTSC	EIA/NTSC	EIA/NTSC
VIDEO INPUT	Composite, BNC x 1	S-Video Mini DIN x 1 Composite, BNC x 1	Composite, BNC x 1	BNC x 1	Composite Video, Composite BNC x 1
VIDEO OUTPUT	S-Video 4 PIN Mini DIN x 1 Composite, BNC x 1	Composite, BNC x 1	Composite, BNC x 1	Composite Video, BNC x 1	Composite BNC x 1
RECORDING MODES	2-168 Hrs.	2-960 Hrs. + 1 shot	2-168 Hrs.	2, 12, 24 Hrs.	12 - 760 Hours
RECORD INTERVAL (Approx.)	1/60 - 1.4 Secs.	1/60 - 8 Secs.	1/60 - 1.4 Secs.	1/60 - 0.2 Secs.	0.25 - 16 Secs.
MIC INPUT	3.5mm Mini-jack, -60dBs High impedance	Mini-jack, -60dBs, 600 Ohms	Mini-jack, -60dBs, 600 Ohms	3.5mm Mini-jack x 1, -60dBs, 600 Ohms	—
AUDIO RECORDING	2, 12, 24 Hour Mode	2, 12, 24 Hour Mode	2, 12, 24 Hour Mode	2, 12, 24 Hour Mode	—
HORIZONTAL RESOLUTION	430 Lines (B/W) 400 Lines (Color)	350 Lines (B/W) 300 Lines (Color)	350 Lines (B/W) 300 Lines (Color)	350 Lines (B/W) 300 Lines (Color)	380 Lines (B/W) 250 Lines (Color)
S/N RATIO	45 dB	44 dB	44 dB	44 dB	45 dB
COMPUTER INTERFACE	RS-232C VIA Optional SVT-RS1A	RS-232C VIA Optional SVT-RS1A	RS-232C VIA Optional SVT-RS1A	No	No
TIME/DATE	Yes	Yes	Yes	Yes	Yes
BUILT-IN TIMER	7 Day/7 event	7-Day/8-Event	7 day/8-Event	Yes	7-day/21-Event
ALARM REC. SPEED	2,12 Hrs. or No change	2, 12 Hrs. or No change	2, 12 Hrs. or No change	2, 12 Hrs. or No change	12 Hrs. Mode
ALARM SEARCH	No	Yes	No	No	Yes
ALARM SCAN	Yes	Yes	Yes	Yes	—
ALARM LOG	Yes	Yes	Yes	Yes	Yes
POWER REQUIREMENT	AC 120V, 50/60Hz	AC 120V, 60Hz	AC 120V, 60Hz	AC 120V, 60Hz	AC 120V, 60Hz
POWER CONSUMPTION	22W	17W	17W	18W	25W
WEIGHT	12 lb. 12 oz. (5.8 kg)	12 lb. 12 oz. (5.8 kg)	12 lb. 12 oz. (5.8 kg)	8 lb. 6 oz. (3.8 kg)	14 lb.
DIMENSIONS					
WxHxD, inch.	16 ⁵ / ₈ " x 4" x 13 ¹ / ₂ "	16 ⁵ / ₈ " x 4" x 13 ³ / ₄ "	16 ⁵ / ₈ " x 4" x 13 ³ / ₄ "	9 ¹ / ₂ " x 3 ⁷ / ₈ " x 13 ¹ / ₈ "	14" x 3 ¹ / ₄ " x 13 ¹ / ₈ "
(mm)	(420 x 100 x 340mm)	(420 x 100 x 340mm)	(420 x 100 x 340mm)	(240 x 96.5 x 333mm)	(355 x 86 x 340mm)

“Real Action” Time Lapse VCRs

	SVT-L400	SVT-LC300	SVT-L200	SVT-DL224
TAPE FORMAT	VHS	VHS	VHS	VHS
RECORDING SYSTEM	Rotary 4-Head Helical Scanning System	Rotary 4-Head Helical Scanning System	Rotary 4-Head Helical Scanning System	Rotary 4-Head Helical Scanning System
VIDEO SIGNAL	EIA/NTSC	EIA/NTSC	EIA/NTSC	EIA/NTSC
VIDEO INPUT	Composite Video, BNC x 1	Composite Video, BNC x 1	Composite, BNC x 1	Composite, BNC x 1
VIDEO OUTPUT	Composite Video, BNC x 1	Composite Video, BNC x 1	Composite, BNC x 1	Composite, BNC x 1
RECORDING MODES	6, 18, 30, 48, 72, 96, 120, 168 Hrs. (T-120) 8, 24, 40, 64, 96, 126, 160, 224 Hrs. (T-160)	6, 18, 30, 48, 72, 96 Hrs. (T-120) 8, 24, 40, 64, 96, 126 Hrs. (T-160)	8, 24, 40 Hrs. with T-160	8, 24 Hours with T-160
RECORD INTERVAL (Approx.)	1/60, 1/20, 1/12, 0.15, 0.22, 0.28, 0.35, 0.48 Sec.	1/60, 1/20, 1/12, 0.15, 0.22, 0.28, 0.35, 0.48 Sec.	1/60, 1/20, 1/12 Sec.	1/60 - 1/20 Sec.
MIC INPUT	3.5mm Mini x 1, -60dBs, 600 Ohms	3.5mm Mini x 1, -60dBs, 600 Ohms	Mini-jack, -60dBs, 600 Ohms	3.5mm Mini x 1, -60dBs, 600 Ohms
AUDIO RECORDING	6(8), 18(24), 30(40) Hour Mode	6(8), 18(24), 30(40) Hour Mode	8, 24, 40 Hour Mode	8, 24 Hour Mode
HORIZONTAL RESOLUTION	350 Lines (B/W) 300 Lines (Color)	350 Lines (B/W) 300 Lines (Color)	320 Lines (B/W) 300 Lines (Color)	350 Lines (B/W) 300 Lines (Color)
S/N RATIO	43 dB	43 dB	42 dB	43 dB
COMPUTER INTERFACE	RS-232C VIA Optional SVT-RS1A	N/A	RS-232C Via Optional SVT-RS1A	No
TIME/DATE	Yes	Yes	Yes	Yes
BUILT-IN TIMER	Yes	Yes	7-Day/8-Event	Yes
ALARM REC. SPEED	6H(8H) or No change	6H(8H), 8H (29H) or No change	8 Hr. mode or No change	8 Hr. mode or No change
ALARM SEARCH	Yes - Time/Date Search	Yes - Time/Date Search	No	No
ALARM SCAN	Yes	Yes	Yes	Yes
ALARM LOG	Yes	Yes	Yes	Yes
POWER REQUIREMENT	AC 120V, 60Hz	AC 120V, 60Hz	AC 120V, 60Hz	DC 10-16V
POWER CONSUMPTION	17W	18W	17W	18W
WEIGHT	12 lb. 9 oz. (Approx. 5.8 kg)	8 lb. 6 oz. (Approx. 3.8 kg)	12 lb. 12 oz. (Approx. 5.8 kg)	8lb. 6 oz. (3.8 kg)
DIMENSIONS WxHxD, inch. (mm)	16 ⁵ / ₈ " x 4" x 13 ¹ / ₂ " (420 x 100 x 340mm)	9 ¹ / ₂ " x 3 ³ / ₈ " x 13 ¹ / ₈ " (240 x 96.5 x 333mm)	16 ⁵ / ₈ " x 4" x 13 ³ / ₄ " 420 x 100 x 340mm)	9 ¹ / ₂ " x 3 ³ / ₈ " x 13 ¹ / ₈ " (240 x 96.5 x 333mm)

SPECIFICATIONS

8mm VCRs

	EVO-250	PGV-250
VIDEO FORMAT	Hi8/Standard 8mm (SP/LP)	—
VIDEO RECORDING SYSTEM	Rotary 2-Head Helical Scanning FM System	—
AUDIO RECORDING SYSTEM	Rotary Head, FM Stereo System	—
COLOR SYSTEM	EIA/NTSC	—
RECORDING TIME	SP Mode: 2 Hrs. 30 Min. LP Mode: 5 Hrs. (w/Sony P6-150)	—
PLAYBACK TIME	SP Mode: 2 Hrs. 30 Min. LP Mode: 5 Hrs. (w/Sony P6-150)	—
F. FWD/REW. TIME	Approx. 6 Min. (with Sony P6-120 cassette)	—
VIDEO INPUT/OUTPUT	Composite x 1 (phono type) Y/C x 1 (4-pin mini DIN)	Composite video, Phono x 1 (phono type) Y/C video mini DIN 4 pin x 1
AUDIO INPUT/OUTPUT	-7.5 dBs, phono x 2 (stereo) / -7.5 dBs, phono x 2 (stereo)	Phono x 2, -7.5 dBs (Line) / -60 dB (Mic) Selectable (0 dBs = 0.775 Vrms)
ALARM INPUT	—	Contact Closure: Active Short
POWER REQUIREMENTS	7.2V (Battery Pack) 8.4V (AC Power Adaptor AC-V615)	DC 5.3V, 120MA
POWER CONSUMPTION	2.9W	8.7V 1 VA
OPERATING TEMPERATURE	0°C to 40°C (32°F to 104°F)	5°C to 40°C (41°F to 104°F)
SUPPLIED ACCESSORIES	DCV-700 Car Battery Adaptor DK-415 DK Cable Operation Manual Bottom Plate Adaptor	DC Power Plate Adaptor Lithium Battery CR 2032 (1) Operation Manual Cable For ALM In/Tape End/Rec Terminal
WEIGHT	Approx. 1 lb. 7 oz. (650 g) without Battery	Approx. 5.6 oz. (160 g) main unit Approx. 2 oz. (60 g) DC power supply unit
DIMENSIONS WxHxD, inch. (mm)	5 ¹³ / ₁₆ " x 1 ⁷ / ₈ " x 5 ³ / ₈ " (148mm x 48mm x 135mm)	2 ³ / ₄ " x 2 ³ / ₈ " x 5 ⁵ / ₁₆ " (69.5mm x 60.6mm x 134.8mm)

Digital Video Recorder

HSR-1

VIDEO SIGNAL	EIA standard, NTSC color
RECORDING SYSTEM	Rotary two-head helical scanning system
TAPE FORMAT	DV based (SP mode)
USABLE TAPE	DV cassette tape (standard or mini size)
HDD CAPACITY	Over 4.3 GB
FF/REW TIME	Less than 3 minutes (with DV270 tape)
VIDEO INPUTS	VBS, VS - BNC x 4 (multiplexed) 1.0Vp-p, 75-ohm, unbalanced
VIDEO OUTPUT	VBS, BNC x 2, 1.0Vp-p, 75-ohm, unbalanced S-Video (Mini DIN 4 pin) Y: 1.0Vp-p, 75-ohm, unbalanced C: 0.286Vp-p, 75-ohm, at burst level
DISPLAY PATTERNS	9 patterns
QUALITY MODES	SUPER, HIGH, MID and LOW modes (field recording) HYPER mode (frame recording on trigger)
HORIZONTAL RESOLUTION	Over 500 TV lines (HYPER and SUPER modes) Over 360 TV lines on HIGH mode
S/N	More than 48 dB
POWER REQUIREMENTS	AC 120V, 50/60 Hz
POWER CONSUMPTION	80W (without options) 115W (with full options)
WEIGHT	22 lb., 1 oz. (10 kg)
DIMENSIONS (WHD)	14" x 5" x 16 1/2" (355 x 125 x 410mm)
OPERATING TEMPERATURE	41°F - 104°F (5°C to 40°C)

SPECIFICATIONS

Video Printers

	UP-880	UP-960	UP-980	UP-2100SD
THERMAL HEAD	1024 Dot Drive	1280 Dot Drive	1280 Dot Drive	150 dpi
EFFECTIVE PRINT SIZE				
STANDARD MODE*	90.4mm x 69.0mm	7 1/2" x 5 3/4"	7 3/8" x 5 5/8"	Approx. 3" or 4"
SIDE MODE	90.4mm x 69.0mm	7 1/4" x 9 5/8"	7 1/2" x 9 7/8"	NA
GRADATION	256 Gray Levels	256 Gray Levels	256 Gray Levels	256 Level per dot per color
PRINT SPEED				
STANDARD MODE*	4.0 sec.	Approx. 10 seconds (EIA)	Approx. 10 seconds (EIA)	Less than 75 seconds
SIDE MODE	7.0 sec.			
INPUT SIGNAL	Composite Video, BNC x 1	Composite Video, BNC x 1	Composite Video, BNC x 1	Composite Video or S-Video BNC x 1/Mini DIN x 1
OUTPUT SIGNAL	Composite Video BNC x 1	Composite Video BNC x 1	Composite Video BNC x 1	Composite Video or S-Video BNC x 1/Mini DIN x 1
SCAN SYSTEM	EIA or CCIR (Auto Select)	EIA or CCIR (Auto Select)	EIA or CCIR (Auto Select)	NTSC
REMOTE PRINT	Stereo Mini-jack	Stereo Mini-jack	Stereo Mini-jack	Stereo Mini-jack
POWER REQUIREMENT	AC 120V, 50/60 Hz	AC 120V, 220V to 240v, 50/60 Hz	AC 120V, 220V to 240v, 50/60 Hz	AC 120V, 50/60 Hz
POWER CONSUMPTION	1.6 A	2.4A	2.4A	1.5A
WEIGHT	8 lb. 2 oz. (3.7kg)	17 lb.10 oz. (8kg)	17 lb.10 oz. (8kg)	19 lb. 13 oz. (9kg)
DIMENSIONS				
WxHxD, inch. (mm)	6 1/8" x 4 1/4" x 11 7/8" (154 x 106 x 303mm)	12 1/2" x 5 1/4" x 12 1/8" (316 x 132 x 305mm)	12 1/2" x 5 1/4" x 12 1/8" (316 x 132 x 305mm)	14 1/2" x 5" x 16 1/4" (370 x 125 x 413mm)
PAPER	UPP-110S/4 UPP-110HD UPP-110HA	UPP-210SE UPP-210HD	UPP-210SE UPP-210HD	UPC-2010

*The UP-880 is capable of side printing. On either standard or side printing, it is possible to choose 1.5 or 2 times zoom, as well as small and large modes.

SUGGESTED LIST PRICES

Product	Suggested List Price	Product	Suggested List Price	Product	Suggested List Price
12PZA10X8	\$650.00	PGV-250	520.00	SVT-L200	960.00
13PZG10X6	680.00	PVM-8041Q	\$1,165.00	SVT-LC300	999.00
AC-D4HG	22.99	RFU-89UCKA	50.00	SVT-L400	1,090.00
AC-S10	180.00	RM-91	30.00	SVT-RM10	55.00
AC-V55	206.00	RMM-171	40.80	SVT-RS1A	\$400.00
BC-1WD	770.00	RM-V200	128.00	SVT-S3100	1,450.00
BP-900	28.55	RSE-400	4,195.00	T-120 TLV	5.99
CVX-V1	895.00	RSE-500	4,495.00	T-160 VF/H	3.99
CVX-V3	995.00	SLR-103A	210.00	UP-2100SD	1,295.00
VCL-P28AICS	275.00	SLR-800	100.00	UP-880	1,500.00
VCL-P4AICS	133.00	SMB-121	102.00	UP-960	2,700.00
VCL-P8AICS	122.00	SMB-5000	110.00	UP-980	5,600.00
VCL-P28MCS	153.00	SPT-M124	209.00	UPC-1010	370.00
VCL-P4MCS	96.90	SPT-M314	285.00	UPC-1020	372.00
VCL-P8MCS	86.70	SSC-C104	399.00	UPC-2010	125.00
CB-101	26.50	SSC-C370	779.00	UPP-110HA	21.00
DC-S10	180.00	SSC-C374	779.00	UPP-110HD	21.00
DCC-120A	39.95	SSC-CX34	819.00	UPP-210SE	27.30
DCP-77	75.00	SSC-DC10	539.00	UPP-210HD	43.00
DF-12BSND41/1	247.00	SSC-DC14	539.00	UPP-110S/4	14.75
DF-28BSND41/1	247.00	SSC-DC50A	919.00	VCL-S03XEA	350.00
DF-35BSND41/1	270.00	SSC-DC54A	919.00	VCL-S03XM	188.00
DF-6BSND41/1	250.00	SSC-M370	449.00	VCL-S06XEA	310.00
EVO-250	1,025.00	SSC-M374	449.00	VCL-S06XM	101.00
EVT-820	2,100.00	SSC-MX34	649.00	VCL-S12XEA	295.00
FS-20	25.00	SSM-125	295.00	VCL-S12XM	107.00
HSR-1	7,695.00	SSM-14N5U	550.00	WCS990	149.99
MB-14N1U	145.00	SSM-175	425.00	YS-DX316	2,500.00
MB-507//A	235.00	SSM-20N5U	995.00	YS-DX216	1,250.00
MB-509//A	60.00	SSM-8040	589.00	YS-SX310	1,290.00
MB-800	91.80	SSM-930	202.00	YS-SX210	960.00
MB-900	133.00	SVO-1320	440.00	YS-S6/A	255.00
MQST120	22.00	SVT-124	770.00	YS-W150	345.00
NP-1B	128.00	SVT-3050/1	1,220.00	YS-W250	995.00
P6-120MPD//A	5.49	SVT-5050	1,500.00	ZBOX-2	1,575.00
P6-150MPD	7.99	SVT-DL224	860.00		

Products	Features	Specifications
CVX-V1	4	—
CVX-V3	5	—
EVO-250	14	26
EVT-820	13	24
HSR-1	14	27
PGV-250	14	26
PVM-8041Q	9	23
RSE-500/RSE-400	17	—
SPT-M314	3	18
SPT-M124	3	18
SSC-C104	5	19
SSC-C370/SSC-C374	4	19
SSC-CX34	5	19
SSC-DC10/SSC-DC14	4	19
SSC-DC50A/SSC-DC54A	4	19
SSC-M370/SSC-M374	3	18
SSC-MX34	3	18
SSM-14N5U	9	23
SSM-20N5U	10	23
SSM-125	8	22
SSM-175	8	22
SSM-930	8	22
SSM-8040	9	23
SVO-1320	13	—
SVT-124	11	24
SVT-3050/1	11	24
SVT-5050	11	24
SVT-DL224	13	25
SVT-L200	12	25
SVT-LC300	12	25
SVT-L400	12	25
SVT-S3100	10	24
UP-880	16	28
UP-960/UP-980	16	28
UP-2100SD	16	28
VCL-P28AICS	6	20
VCL-P8AICS	6	20
VCL-P28MCS	6	20
VCL-P4AICS	6	20
VCL-P4MCS	6	20
VCL-P8MCS	6	20
YS-DX316/YS-DX216	7	21
YS-SX310/YS-SX210	7	21
YS-S6/A	7	—
YS-W150	5	20
YS-W250	6	20
ZBOX-2	13	—

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*Minimum illumination: There is no standard procedure for testing minimum illumination.

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Sony Electronics Inc.
Sony Security Systems
1 Sony Drive, Park Ridge, NJ 07656-8003
201-358-4954
www.sony.com/professional

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