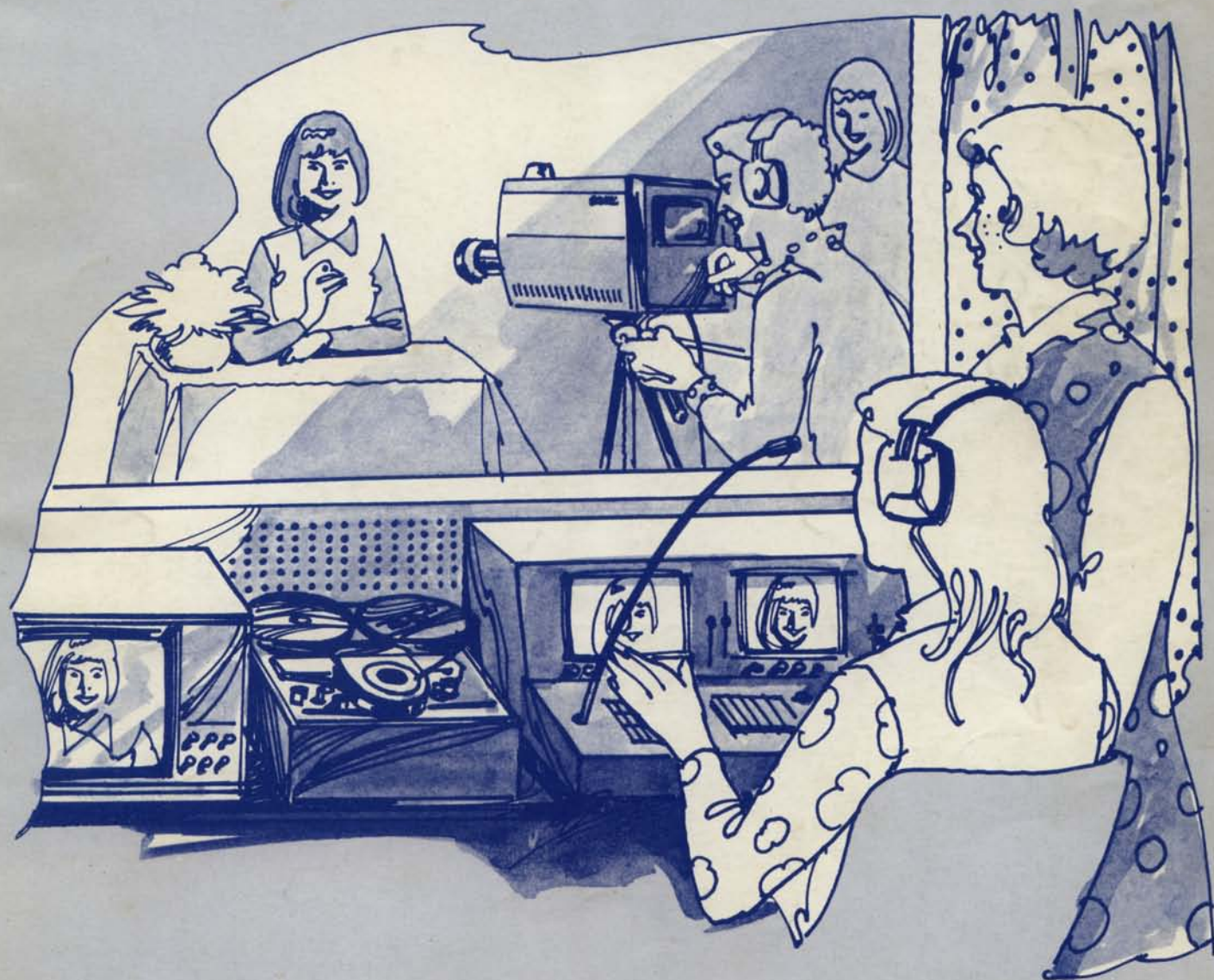


Sony Video Equipment

CCIR



SONY®

World leading Technology and Reliability

Back in 1964 Sony achieved another world first—the introduction of a successful transistorized video tape recorder (VTR). Ever since then, the VTR has found increasingly wide acceptance throughout the world by adding a new dimension to recording. Now, video recording is one of the most advanced and economical audio-visual information media. With great versatility and high utility, video systems are highly practical for almost all activities in every field. Their applications are virtually unlimited. This booklet introduces Sony's line of video equipment and its accessories, designed for use on CCIR standards. These units have won especially great acclaim for highly advanced engineering and superb technology, and assure high versatility and dependability to make the most of every video system. Select the world's most advanced and useful video equipment and wide range of accessories from Sony.

Contents

Video Tape Recorders (Color and Monochrome)	P. 4
Video Cameras	P. 7
Color Video Cameras	P. 10
Video Monitors (Color and Monochrome)	P. 11
Video Tape Recorder and Video Camera Accessories	P. 14
Video Tapes	P. 19
Microphones	P. 20
Lenses	P. 21
Connecting Cables	P. 21
"Telelookie" TV Communications System	P. 23

INDEX

AC-3420CE 17	CMC-1 22	ECM-53 20	V-12-60A 19
AV-3420CE 4	CMC-10A 22	EN-5000S 10	V-30 19
AV-3620CE 5	CMS-110CE 16	EV-310CE 6	V-30D 19
AV-3670CE 5	CMW-110CE 16	EV-320CE 7	V-30F 19
AVC-3000CE 7	CV-2100ACE 6	EVR-320 18	V-30H 19
AVC-3000E 7	CV-5600P 6	H8 x 12.5A 21	V-31 19
AVC-3200CE 8	CV-5600S 6	H8 x 1208 21	V-31E 19
AVC-3200CE 8	CVA-52CE 14	JB-3CE 16	V-32 19
AVC-3200CE-S 7	CVA-53CE 14	Lens 214 21	V-60D 19
AVC-3420CE 4	CVA-103CE 15	Lens 507 21	V-60E 19
AVC-4000ACE 8	CVA-200CE 15	LV-5CE 19	V-60H 19
AVC-4200ACE 9	CVA-200CEU 15	MVA-1 18	V-62 19
AVC-4600CE 9	CVA-200F 15	MVS-2 18	VA-200E 17
AVF-3200CE 8	CVA-200UB 15	PSA-101P 16	VCL-08 21
BP-20 17	CVM-90UB 12	PVM-76CE 13	VCL-20 21
CCD-3-1W 22	CVM-90UM 11	PVM-90CE 13	VCL-50 21
CCD-3-3W 22	CVM-110UET 12	PVM-200CE 14	VCL-1100 21
CCD-5-5W 22	CVM-110UK 12	PVM-400CE 14	VCL-1206 21
CCD-5-10W 22	CVM-112UM 12	R1-8V(M) 19	VCL-2100 21
CCD-5-25W 22	CVM-1320E 13	R1-8V(P) 19	VCR-1 17
CCD-5-50W 22	CVM-1320UB 13	RH-5E 19	VCR-16 17
CCF-5 21	CVO-3ACE 18	RH-5V 19	VCR-16B 17
CCF-10 21	CVO-4A 18	RH-7V 19	VCS-31 17
CCF-25 21	DA-51E 15	RH-72V 19	VCS-50M 17
CCF-25L 21	DA-101CE 15	RMM-1 14	VCT-1 18
CCF-50 21	DA-200E 15	RMM-2 16	VCT-20A 18
CCF-50L 21	DCC-2400 18	RMM-3 16	VDC-1ACE 15
CCJ-1 22	DR-10A 18	RMM-5 16	VDF-1 21
CCJ-5 22	DXC-5000CE 10	SEG-2CE 16	VMC-1H 22
CCJ-10 22	DXC-5000P 10	SEG-200P 16	VMC-1M 22
CCV-25 22	DXC-5020P 11	TLC-1200CE 23	VMC-5P 22
CCV-50 22	ECM-18N 20	V5 x 20MS 21	VMC-10P 22
CCY-25 22	ECM-21N 20	V5 x 20MSB 21	VMC-25P 22
CG-3CE 15	ECM-22P 20	V10 x 15MS 21	VMC-50P 22
CG-101P 15	ECM-250 20	V10 x 15MSB 21	VR-1 18
CG-101S 16	ECM-50 20	V-12-30 19	
CLP-1CE 14	ECM-51 20	V-12-30A 19	
CMA-3CE 17	ECM-52 20	V-12-60 19	



AVC-3420CE

AV-3420CE

*\$1200
No lower than
\$1000*

*R.F. converter
+ car battery cord*

*High resolution of more than 300 lines
Battery-operated, portable 1/2-inch Video Tape Recorder AV-3420CE & Video Camera AVC-3420CE with built-in Viewfinder & Electret Condenser Microphone*

AV-3420CE/AVC-3420CE

■ Completely portable, battery-operated VTR system that can be carried and operated by one person. Easy field pickup for active program production. Ideal for information and news, travelogues and advertising, vocational training programs, etc.

■ High resolution of more than 300 lines—With use of newly developed High Density video tape and precisely designed heads, more than 300 lines of horizontal resolution is assured. So, pictures are stable and clear with vivid contrast—sharply focused, virtually grain-free pictures.

■ The AV-3420CE records both picture and sound up to 30 minutes on one reel of tape, just by pushing the lever of the camera, and plays them back on a monitor, an ordinary CCIR standard TV set with optional RF unit, or through the built-in 1.2-inch viewfinder, which shows the operator his picture exactly as it will appear on the TV screen.

■ Easy recording with AGC (Automatic Gain Control) system; recorder operation remote-controllable from the camera.

■ Audio can be added after recording.

■ Still picture facility.

■ Detachable "C" mount zoom lens; omni-directional Electret Condenser Microphone.

■ AC/DC operation: supplied BP-20 rechargeable battery pack, car battery with optional DCC-2400 car battery cord and household current with supplied AC-3420CE AC power adaptor, which also serves to charge the battery.

■ Tapes are interchangeable with those of any Sony AV-CE series VTR.

AV-3420CE

Power requirements: DC 12V $\pm 1.2V$; AC 220, 50/60Hz with the use of supplied AC power adaptor AC-3420CE; 12.6W (without camera) Changeable to AC 110, 127 or 240V

Dimensions: 280(W) $\times$ 157(H) $\times$ 295mm(D) (11 $\times$ 6 $\frac{1}{4}$ $\times$ 11 $\frac{1}{2}$ ")

Weight: 8.5 kg (18 lb 12 oz) with BP-20 battery pack, tape and reel

Video signals: British TV standards (405 lines)

CCIR and OIRT TV standards (625 lines)

French TV standards (819 lines); 50 fields

Supplied accessories: AC power adaptor AC-3420CE

Battery pack BP-20

High Density video tape V-60D (20 min.)

Empty reel RH-5E

Earphone CE-3

Monitor connecting cable VMC-1M (10P-8P, 1.5m)

Splicing tape

Cleaning kit

Shoulder bag

AVC-3420CE

Power requirements: DC 12V (supplied by the AV-3420CE VTR), 8W

Dimensions: 76(W) $\times$ 271(H) $\times$ 383mm(D) (3 $\times$ 10 $\frac{5}{8}$ $\times$ 15 $\frac{1}{4}$ ") with zoom lens

Weight: 2.8 kg (6 lb 2 oz) with zoom lens

Supplied accessories: Lens VCL-1206 (F1.8, 12.5 - 75mm)

Camera grip, Camera strap, Washer (for shoulder strap), Polishing cloth

Recommended

optional accessories:

Monopod VCT-1

Tripod VCT-20A

Camera cable CCJ-1 (1.6m), CCJ-5 (5m), CCJ-10 (10m)

Use only Sony V-60 series High Density video tapes for AV-CE series videocorders

V-60D	4.6", 20 minutes
V-60H	5", 30 minutes
V-60E	7", 20 minutes
V-62	7", 60 minutes



1/2-inch monochrome Videocorders — Sony AV-CE series



High resolution of more than 300 lines Compact, lightweight 1/2-inch Video Tape Recorder

AV-3620CE

- Designed as an introductory machine for monochrome picture and sound recording/playback. For various applications at school, offices, or any other place.
- High resolution of more than 300 lines—With use of newly developed High Density video tape and precisely designed heads, more than 300 lines of horizontal resolution is assured. So, pictures are stable and clear with vivid contrast—sharply focused, virtually grain-free pictures.
- One full hour of monochrome recording and playback on Sony High Density 1/2-inch video tape.
- Extremely easy to operate with AGC (Automatic Gain Control) for both video and audio; manual audio recording also possible.
- Audio can be added after recording.
- Still picture facility.
- Playback possible on an ordinary CCIR standard TV set with optional RF unit.
- Tapes are interchangeable with those of any Sony AV-CE series VTR.

Power requirements: AC 220 $\pm$ 20V, 50Hz $\pm$ 0.5%, 95W (changeable to AC 110, 127 or 240V with AC voltage selector)

Dimensions: 408(W) $\times$ 231(H) $\times$ 335mm(D) (15 $\frac{3}{4}$ $\times$ 9 $\frac{1}{8}$ $\times$ 13 $\frac{3}{8}$ ")

Weight: 16.5 kg (36 lb 6 oz)

Video signals: British TV standards (405 lines)
CCIR and OIRT TV standards (625 lines)
French TV standards (819 lines), 50 fields

Supplied accessories: Empty reel RH-7V
AC power cord
8-pin connector
High Density video tape V-60E (20 min.)
Sony oil
Cleaning kit
Splicing tape

Recommended optional accessory: High Density video tape V-62 (60 min.)

High resolution of more than 300 lines 1/2-inch Video Tape Recorder with capstan servo-controlled electronic editing facility

AV-3670CE

- For program production and editing, at educational institutions, language laboratories, industrial and commercial studios, etc.
- High resolution of more than 300 lines—with use of newly developed High Density video tape and precisely designed heads, more than 300 lines of horizontal resolution is assured. So, pictures are stable and clear with vivid contrast—sharply focused, virtually grain-free pictures.
- Perfect electronic editing—New video and audio signals can be inserted or added to a previously recorded tape. The playback signal from the recorded tape is locked into the incoming sync (or composite) signal by the capstan servo system so that the editing may be accomplished without disturbing the flow of vertical sync.
- Manual level controls for both video and audio signals in addition to AGC (Automatic Gain Control).
- Variable slow motion and still picture facility.
- Two separate illuminated level meters on the front panel for easy level adjustment.
- Audio can be added after recording.
- Playback possible on an ordinary CCIR standard TV set with optional RF unit.
- Tracking meter, for your best results, on the front panel to indicate maximum RF signal output to facilitate editing.
- Tapes are interchangeable with those of any Sony AV-CE series VTR.

Power requirements: AC 220 $\pm$ 20V, 50Hz $\pm$ 0.5%, 90W (changeable to AC 110, 127 or 240V with AC voltage selector)

Dimensions: 440(W) $\times$ 236(H) $\times$ 405mm(D) (17 $\frac{3}{8}$ $\times$ 9 $\frac{3}{8}$ $\times$ 15 $\frac{7}{8}$ ")

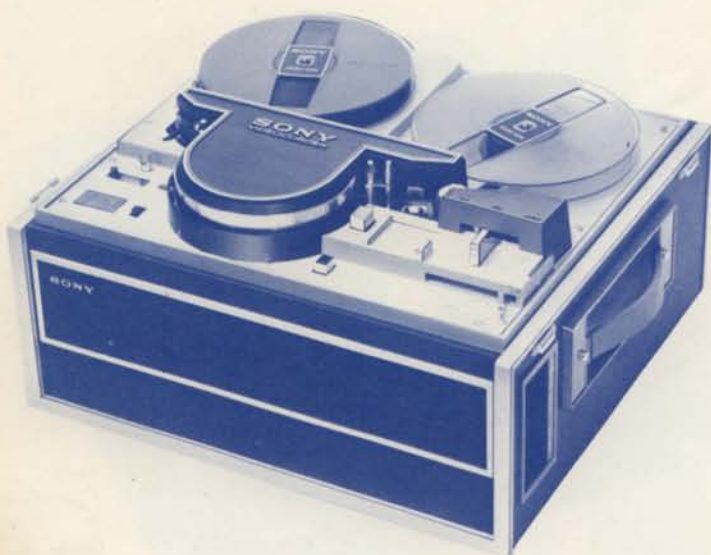
Weight: 19 kg (41 lb 14 oz)

Video signals: British TV standards (405 lines)
CCIR and OIRT TV standards (625 lines)
French TV standards (819 lines), 50 fields

Supplied accessories: Empty reel RH-7V
High Density video tape V-60E (20 min.)
AC power cord
8-pin connector
Splicing tape
Sony oil
Cleaning kit

Recommended optional accessory: High Density video tape V-62 (60 min.)

Video Tape Recorders



Easy-to-operate 1/2-inch Video Tape Recorder

CV-2100ACE

- For schools, offices, and other applications.
- Easy to operate with AGC (Automatic Gain Control) for both video and audio.
- Manual recording of both audio and video possible.
- Editing facility for picture and sound insertion.
- Audio can be added after recording.
- Still picture facility.
- Convenient tape duplication with optional video duplicator VDC-1ACE.

Power requirements: AC 220V $\pm 10\%$, 50Hz, $\pm 1\%$, 110W (changeable to AC 100, 110, or 240V with AC voltage selector)

Playing time: 40 minutes (with V-32 tape)

Dimensions: 460(W) $\times$ 280(H) $\times$ 400mm(D) (18 $\frac{1}{4}$ $\times$ 11 $\times$ 15 $\frac{3}{4}$ ")

Weight: 25kg (55 lb 2 oz)

Video signals: British TV standards (405 lines)

CCIR and OIRT TV standards (625 lines)

French TV standards (819 lines), 50 fields

Supplied accessories: Video tape V-30 (6.5 min.)

Empty reel RH-7V

AC power cord



Industrial use, high quality 1-inch Video Tape Recorder

Compatible with both color and monochrome signals



Color and monochrome 1/2-inch Video Tape Recorder

CV-5600P/CV-5600S

- An introductory machine for color video recording and playback. For medical research and analysis, hotel CCTV use, educational and industrial applications, etc.
- High quality PAL or SECAM color/CCIR monochrome recording and playback.
- Easy to operate with AGC (Automatic Gain Control) system.
- Manual recording of both audio and video possible.
- Editing facility for picture and sound insertion.
- Audio can be added after recording.
- Still picture facility.
- Tapes of monochrome signals are interchangeable with those of CV-2100ACE VTR.

CV-5600P: for PAL color standards

CV-5600S: for SECAM color standards

Power requirements: AC 220V $\pm 10\%$, 50Hz $\pm 1\%$, 120W (changeable to AC 100, 110, or 240V with AC voltage selector)

Playing time: 40 minutes (with V-32 tape)

Dimensions: 570(W) $\times$ 280(H) $\times$ 400mm(D) (22 $\frac{3}{8}$ $\times$ 11 $\times$ 15 $\frac{3}{4}$ ")

Weight: 28kg (61 lb 10 oz)

Video signals: British TV standards (405 lines)

CCIR and OIRT TV standards (625 lines)

French TV standards (819 lines), 50 fields,

PAL (CV-5600P) or SECAM (CV-5600S) color signal

Supplied accessories: Video tape V-30 (6.5 min.)

Empty reel RH-7V

AC power cord

Splicing tape

Cleaning set

EV-310CE

- For medical and industrial research, commercial and industrial studios: for use where professional quality and exceptional convenience are required.
- Superior quality recording/playback of PAL or SECAM color (using optional CLP-1CE color pack) and CCIR monochrome signals.
- Two audio channels—ch-1 for simultaneous recording with video, ch-2 for independent recording, i.e. for audio dubbing after recording and editing.
- Editing button for new picture insertion on recorded tape.
- Remote-controllable with optional EVR-310 remote control unit.
- Variable slow motion and still picture in color and monochrome.
- Precise level meter with meter selection knob to choose: video signal level, audio ch-1 signal level or audio ch-2 signal level.
- Either vertical or horizontal operation; mountable on 19-inch standard rack.

Specifications: Same as EV-320CE except weight

Weight: 40.5 kg (89 lb 5 oz)



Industrial use, high quality 1-inch Video Tape Recorder

With capstan-servo controlled electronic editing system

Compatible with both color and monochrome signals

EV-320CE

■ For medical and industrial research, commercial and industrial studios: for use where professional quality and exceptional convenience are required. Especially designed for program production.

■ Superior quality recording/playback of PAL or SECAM color (using optional CLP-1CE color pack) and CCIR monochrome signals. ■ Electronic editing with an advanced rotary erase head. The capstan-servo controlled system with blanking switcher provides smooth picture insertion on pre-recorded tape or assembling of various sequences without synchronization disturbance.

■ Two audio channels—ch-1 for simultaneous recording with video, ch-2 for independent recording, i.e. for audio dubbing after recording and editing.

■ Editing button for new picture insertion on recorded tape.

■ Remote-controllable with optional EVR-320 remote control unit.

■ Variable slow motion and still picture in color and monochrome. ■ Precise level meter with meter selection knob to choose: tracking condition in playback mode, video signal level in recording mode, audio ch-1 signal level, or audio ch-2 signal level.

■ Either vertical or horizontal operation; mountable on 19-inch standard rack.

Power requirements: AC 110, 120, 220 or 240V selectable with AC voltage selector, 50Hz $\pm 0.5\%$, 180W

Playing time: 70 minutes (with V-12-60A)

Dimensions: 478(W) $\times$ 283(H) $\times$ 487mm(D) (18 $\frac{3}{4}$ $\times$ 11 $\frac{1}{8}$ $\times$ 19 $\frac{1}{4}$ ")

Weight: 44 kg (97 lb)

Video signals: British TV standards (405 lines)
CCIR and OIRT TV standards (625 lines)
French TV standards (819 lines), 50 fields
PAL and SECAM color signal (with optional CLP-1CE color pack)

Supplied accessories: Video tape V-12-30A (35 min.)

Empty reel R1-8V (M)

AC power cord

Splicing tape

Head cleaning set

Accessory bag

Cannon connector

Recommended

optional accessories: Video tape V-12 series (35 or 70 min.)

Color pack CLP-1CE

Remote control unit EVR-320

Rack mount adaptor RMM-2



Easy handling, compact Video Camera

AVC-3000CE/AVC-3000E

■ Designed for use with any basic recording system, such as surveillance and industrial CCTV installations.

■ Automatic Sensitivity Control for the most suitable lighting condition adjustment from 300 to 100,000 lux (30 to 10,000 foot-candles).

■ Standard "C" mount lens supplied, and optional lens adaptable.

AVC-3000CE

Power requirements: AC 220V $\pm 10\%$ (changeable to AC 110, 130 or 240V by change of transformer lead), 50Hz, 9W

Vidicon tube: $\frac{3}{4}$ " separate mesh type

Scanning system: 625 lines, 2:1 interlace, 50 fields

Output receptacles: UHF connector for line monitor

AVC-3000E

Power requirements: AC 220 or 240V adjustable by change of transformer lead, 50Hz, 9W

Vidicon tube: $\frac{3}{4}$ " separate mesh type

Scanning system: 625 lines, 2:1 interlace, 50 fields

Output receptacles: 6-pin connector for VTR, CG-3CE

Dimensions: 95(W) $\times$ 102(H) $\times$ 308mm(D) (3 $\frac{3}{4}$ $\times$ 4 $\times$ 12 $\frac{1}{8}$ ")

Weight: 2.3 kg (5 lb 1 oz)

Supplied accessories: Lens F1.8, 16mm "C" mount

Coaxial cable (3C2V, 5m)

Recommended

optional accessories: Lens zoom VCL-1206

wide angle: VCL-08

telephoto: VCL-50

Tripod VCT-20A



4-inch Electronic Viewfinder AVC-3200CE/CE-S video cameras

AVF-3200CE

■ Can be snapped on top of the AVC-3200 series video camera without cable or additional hardware.

■ Permits monitoring of the pictures from the camera, so zooming and focusing are very simple.

Power requirements: AC 13V, 50Hz, (supplied from AVC-3200CE/CE-S)

Dimensions: 115(W) $\times$ 108(H) $\times$ 339mm(D) (4 $\frac{5}{8}$ $\times$ 4 $\frac{1}{4}$ $\times$ 13 $\frac{1}{2}$ ")

Weight: 2.4 kg (5 lb 4 oz)

Video Cameras



Economical Video Camera for both CCTV system and video tape recording

AVC-3200CE-S

- Economical and easy-to-use for wide applications—in business or industry, commercial use, schools, etc.
- VIDEO and RF output for VTR, CCTV system or direct use with ordinary TV sets.
- Automatic Sensitivity Control for the most suitable lighting condition adjustment from 300 to 100,000 lux (30 to 10,000 foot-candles).
- Standard "C" mount lens supplied, zoom, wide angle and telephoto lenses adaptable.
- Shutter with a "stand by" position protects vidicon.
- Sony AVF-3200CE electronic viewfinder can be mounted on top.
- Connects to CG-3CE sync generator, SEG-2CE special effect generator and VTR (with CCF cable).

Power requirements: AC 220V $\pm 10\%$ (changeable to AC 100, 120 or 240V by resoldering transformer lead), 50Hz, 10W
 Vidicon tube: $\frac{3}{4}$ " separate mesh type
 Output receptacles: UHF type, 6-pin type
 Dimensions: 106(W) $\times$ 124(H) $\times$ 340mm(D) ($4\frac{1}{4}$ $\times$ $4\frac{7}{8}$ $\times$ $13\frac{3}{8}$ "")
 Weight: 3.2 kg (7 lb 1 oz) including lens
 Supplied accessories: Lens F1.8 16mm "C" mount
 Camera cable CCF-5 (5m)
 Coaxial cable (3C2V, 5m)

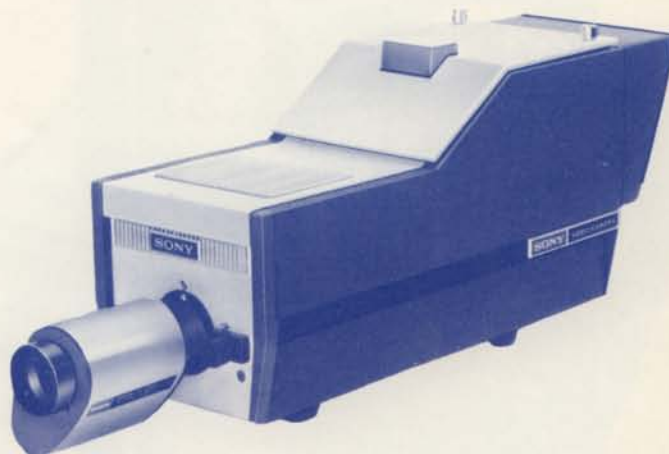


Video camera ensemble

AVC-3200CE

Consists of Video camera AVC-3200CE-S

Tripod VCT-20A
 Microphone F-98 & accessories
 Camera cable CCF-5 (5m)
 Lens, F1.8 16mm "C" mount
 Plug adaptor PC-2 (phone plug—mini jack)
 Carrying case.



Zoom lens: optional

High performance studio-use video camera

AVC-4000ACE

- Designed for program production in educational, industrial or commercial fields.
- Tally light and intercom facilities with the JB-3CE junction box.
- Built-in 7-inch viewfinder with contrast, brightness, vertical hold, and horizontal hold controls.
- Three types of video output connectors: UHF connector for monitor, for observation; 10-pin connector for JB-3CE, for tally light and intercommunication; 6-pin connector for SEG-2CE, CG-3CE or VTR (without tally light and intercom facilities).
- RF camera output for direct viewing of camera shots on the TV screen.
- Selection from 3 types of vertical and horizontal drive signals with a sync switch.
- ~: When connected with a Sony CV series videocorder (Sine wave)
- INT: For direct connection with monitor, or to operate a video tape recorder which has no internal sync source. (Internal sync, Line lock)
- ┐: When used with Sony AV-CE and EV series videocorder, video monitors, or special effect generators. (2:1 interlaced scanning with an external sync generator)
- Return video (monitor) circuitry permits monitoring of the recorded pictures on the viewfinder.
- Standard "C" mount lens.

Power requirements: AC 220V (changeable to AC 110, 120 or 240V by resoldering transformer lead), 50Hz, 55VA
 Horizontal resolution: 500 lines or more (at center)
 Vidicon tube: $\frac{3}{4}$ " separate mesh type
 Scanning system: 625 lines, random or 2:1 interlace, 50 fields
 Dimensions: 200(W) $\times$ 250(H) $\times$ 475mm(D) ($7\frac{7}{8}$ $\times$ $9\frac{7}{8}$ $\times$ $18\frac{3}{8}$ "")
 Weight: 10kg (22 lb)
 Supplied accessories: "C" mount adaptor
 Camera cable CCF-5 (5m)
 Coaxial cable 3C2V (5m)

Recommended optional accessories: Zoom lens: V5 $\times$ 20MS, V10 $\times$ 15MS
 Intercommunication headset DR-10A
 SAMSON tripod
 SAMSON dolly

Recommended optional accessories for the AVC-3200CE/CE-S

Lens zoom: VCL-1206, H8 - 1208
 wide angle: VCL-08
 telephoto: VCL-50
 Electronic viewfinder AVF-3200CE
 Tripod VCT-20A



Zoom lens and tripod: optional

Fully automatic, studio-use Video Camera

AVC-4200ACE

- Designed for program production in educational, industrial or commercial fields.
- Three types of video output receptacles: UHF connector for monitor, for observation; 10-pin connector for JB-3CE for tally light and intercommunication; 6-pin connector for SEG-2CE; CG-3CE or VTR (without tally and intercom facilities).
- Tally light and intercom facility.
- Built-in 4-inch viewfinder with contrast and brightness controls.
- ASC (Automatic Sensitivity Control) and AGC (Automatic Gain Control) systems adapt the camera to wide range of lighting conditions from 300 to 100,000 lux. (30 to 10,000 footcandles). Manual operation also possible; switch selectable.
- Shutter with a "stand by" position protects vidicon.
- Automatic switching possible between internal and external sync system (when connected to CG-3CE or VTR).
- Return video (monitor) circuitry permits monitoring of the console-selected pictures, on the viewfinder.
- Standard "C" mount lens.

Power requirements: AC 100 - 130 or 220 - 240V selectable with AC voltage selector, 50/60Hz, 34W
 Horizontal resolution: 450 lines or more (at center)
 Vidicon tube: $\frac{3}{4}$ " separate mesh type
 Scanning system: 625 lines, 2:1 interlace, 50 fields
 Dimensions: 150(W)×282(H)×378mm(D) ($5\frac{7}{8}$ × $11\frac{1}{8}$ × $14\frac{3}{8}$ ")
 Weight: 6.5 kg (15 lb 7 oz)
 Supplied accessories: Camera cable CCF-5 (5m)
 Coaxial cable CCD-5-5W (5C2V 5m)
 Lens "C" mount F1.8, 16mm
 Number plates
 Recommended optional accessories: Lens zoom: VCL-1206, H8×12.5A
 wide angle: VCL-08
 telephoto: VCL-50
 Intercommunication headset DR-10A



Zoom lens and tripod: optional

High resolution and excellent S/N ratio—Semi-professional Video Camera

AVC-4600CE

- For industrial and commercial studios.
- Separate camera head and control unit—up to 100m (300 ft); controllable from either camera head or control unit.
- Many advanced controls for precise and optimum shooting. Beam and focus controls on both camera head and control unit; on control unit: sensitivity, gain pedestal and aperture controls.
- Built-in 4-inch viewfinder with contrast and brightness controls.
- Tally light and intercom facility.
- Three types of sync signals selectable: INT—supplied by an internal crystal-controlled sync generator, H/V—supplied by external CG-3CE sync generator or VTR, CCIR—supplied by an external CG-101 P/S sync generator.
- Three types of video output connectors: 10-pin for JB-3CE junction box, 6-pin for CG-3CE sync generator, UHF for VTR or monitor.
- Special mount for zoom lens and "C" mount with supplied adaptor. Zoom and focus controllable from a single-rod knob, with the use of optional exclusive lenses, V5×20MSB and V10×15MSB.
- Unique optical focus control facility.
- Control unit can be mounted on a 19-inch standard rack.

Power requirements: AC 110, 127, 220 or 240V selectable with AC voltage selector, 50/60Hz, 60W
 Vidicon tube: 1" separate mesh type
 Scanning system: 625 lines, 2:1 interlace, 50 fields
 Horizontal resolution: 650 lines or more (at center)
 Signal-to-noise ratio: 44dB or more
 Dimensions and weight: Camera head
 150(W)×280(H)×380mm(D) ($5\frac{7}{8}$ × 11 × $14\frac{3}{8}$ ")
 7.9 kg (17 lb 7 oz)
 Camera control unit
 443(W)×88(H)×350mm(D) ($17\frac{3}{8}$ × $3\frac{3}{8}$ × $13\frac{3}{8}$ ")
 11.1 kg (24 lb 8 oz)
 Supplied accessories: "C" mount adaptor
 Camera cable CCY-10 (10m)
 Number plates
 Recommended optional accessories: Zoom lens: V5×20MSB, V10×15MSB
 Intercommunication headset DR-10A
 Camera cable CCY-25 (25m)

Color Video Cameras



Economical PAL Color Video Camera *Remarkable ease of operation—fully automatic system* **DXC-5000P**

- Designed for every PAL color video system use, from commercial studio to school use; hotel CCTV studios for information, news, entertainment; hospital operating observation; educational, industrial and commercial program production, etc.
- Tricolor-balanced, two-tube system for perfect color reproduction. New color disector optical system separates luminance and chrominance components, and uses only two picture-pickup tubes.
- Automatic gain control adapts camera to wide range of lighting conditions from 70 to 1,000 footcandles.
- Automatic color temperature compensation system eliminates time-consuming readjustment.
- Built-in zoom lens (16.5 – 95mm F2.0); built-in 4-inch viewfinder.
- Tally light and intercommunication facilities.
- PAL color encoder built-in into camera control unit.

- Vidicon tube: 1-inch separate mesh type & Sony color disector tube assembly
- Scanning system: 625 lines, 2:1 interlace, 50 fields
- Power requirements: AC 220V (changeable to 110, 130, or 240V, with AC voltage selector inside) 50/60Hz, 100W
- Dimensions and weight: Camera head
166(W)×277(H)×555mm(D) (6 $\frac{5}{8}$ ×10 $\frac{3}{4}$ ×21 $\frac{3}{8}$ "
13 kg (28 lb 11 oz)
Camera control unit
432(W)×185(H)×273mm(D) (17 $\frac{1}{4}$ ×7 $\frac{3}{8}$ ×10 $\frac{3}{4}$ "
13 kg (28 lb 11 oz)
- Supplied accessories: Camera cable CCV-10 (19-pin, 10m)
Neutral density filters (ND-4, ND-20)
AC power cord
Lens hood
Lens cap
Color registration test pattern
- Recommended optional accessories: Close-up lens VCL-1100, VCL-2100
Variable density filter VDF-1
Color sync generator CG-101P
Intercommunication headset DR-10A
SAMSON tripod
SAMSON dolly
Rack mount adaptor for camera control unit RMM-3
Camera cable CCV-25 (19-pin, 25m)
CCV-50 (19-pin, 50m)



Economical RGB video out camera as well as *SECAM Color Video Camera* *Remarkable ease of operation—fully automatic system* **DXC-5000CE**

- Supplies RGB video outputs, separately.
- By coupling with the optional SECAM color encoder EN-5000S, the DXC-5000CE produces SECAM standard color signals.
- Other features and functions are the same as those of the DXC-5000P, PAL color video camera.

Color sync generator (optional): model CG-101S



SECAM Color Encoder for DXC-5000CE color video camera **EN-5000S**

- Power requirements: AC 220V (changeable to 110, 130, or 240V with AC voltage selector inside) 50/60Hz 20W
- Dimensions: 432(W)×80(H)×273mm(D) (17 $\frac{1}{4}$ ×3 $\frac{1}{8}$ ×10 $\frac{3}{4}$ "
- Weight: 6kg(13 lb 3 oz)
- Supplied accessories: AC power cord
Encoder cable

Video Monitors

Monochrome TV receiver/monitors

- Sharp and vivid pictures.
- Easy to view with sunglass screen.
- Great reliability with precision Sony solid state circuitry.
- Versatile with 8-pin connector, UHF (M-type) connectors and mini jacks.
- Easy to use with well-arranged controls and connections.
- High portability with carrying handle.
- Compact and lightweight.
- AC/DC operation.



Zoom lens: optional

PAL Color Video Camera

Several types of TV lens mountable

DXC-5020P

- Designed for medical field applications, program production, etc.
- All the special mount lenses and "C" mount lenses (with supplied adaptor) can be used.
- Other features and functions are the same as those of the DXC-5000P color video camera.

Vidicon tube: 1-inch separate mesh type & Sony color dissector tube assembly

Scanning system: 625 lines, 2:1 interlace, 50 fields

Power requirements: AC 220V (changeable to 110, 130 or 240V with AC voltage selector inside), 50/60Hz, 100W

Dimensions and weight: Camera head
166(W)×277(H)×520mm(D) (6 $\frac{5}{8}$ ×10 $\frac{3}{4}$ ×20 $\frac{1}{2}$ "")
11.5 kg (25 lb 6 oz)

Camera control unit
432(W)×185(H)×273mm(D) (17 $\frac{1}{8}$ ×7 $\frac{3}{8}$ ×10 $\frac{3}{4}$ "")
13 kg (28 lb 11 oz)

Supplied accessories: "C" mount adaptor
Field lens A and B (A for V5×20MS, B for V10×15MS)
AC power cord
Camera cable CCV-10 (19-pin, 10m)
Color registration test pattern

Optional accessories: Zoom lens V5×20MS, V10×15MS
Color sync generator CG-101P
Intercommunication headset DR-10A
SAMSON tripod
SAMSON dolly
Rack mount adaptor for camera control unit RMM-3



9-inch portable TV receiver/monitor for West European, French, Belgian and Italian standards

CVM-90UM

System: West European TV standards (625-line VHF and UHF)
French TV standards (819-line VHF and 625-line UHF)
Belgian TV standards (625-line VHF), 50 fields

Channel coverage: VHF: West European 2 - 12
French 2, 4 - 12
Belgian 2 - 12
Italian B, D, H and H1
UHF: 21 - 69

Picture tube: 9" measured diagonally, 90° deflection

Receptacles: 8-pin, UHF (M-type) (bridge out), mini

Power requirements: AC 110, 130 and 220V (selectable with voltage selector), 50/60Hz, 21.5W
DC 12V (Sony rechargeable battery pack BP-7/564 or car/boat battery with Sony car battery cord DCC-2AW), 13W

Dimensions: 249(W)×266(H)×245mm(D) (9 $\frac{7}{8}$ ×10 $\frac{1}{2}$ ×9 $\frac{5}{8}$ "")

Weight: 6 kg (13 lb 3 oz)

Supplied accessories: 8-pin monitor connecting cable VMC-1.5P (1.5m)
Earphone ME-20A

Video Monitors



9-inch portable TV receiver/monitor for British standards

CVM-90UB

- System: British TV standards (405-line VHF and 625-line UHF, 50 fields)
- Channel coverage: British VHF 1 - 13, UHF 21 - 68
- Picture tube: 9" measured diagonally, 90° deflection
- Receptacles: 8-pin, UHF (M-type) (bridge out), mini
- Power requirements: AC 240V, 50Hz, 18.5W
DC 12V (Sony rechargeable battery pack BP-7/564 or car/boat battery with Sony car battery cord DCC-2AW), 12.5W
- Dimensions: 254(W)×267(H)×245mm(D) (10×10½×9¾")
- Weight: 6.3 kg (13 lb 3 oz)
- Supplied accessories: 8-pin monitor connecting cable VMC-1.5P (1.5m)
Earphone ME-20A
Front cover
Polishing cloth



11-inch portable TV receiver/monitor for West European and Italian standards

CVM-110UET

- System: West European TV standards (625-line VHF and UHF, 50 fields)
- Channel coverage: West European VHF 2 - 12, UHF 21 - 69
Italian VHF A - H1, UHF 21 - 69
- Picture tube: 11" measured diagonally, 90° deflection
- Receptacles: 8-pin, UHF (M-type) (bridge out), mini
- Power requirements: AC 220V, 50Hz, 37W
- Dimensions: 286(W)×298(H)×302mm(D) (11¼×11¼×11¾")
- Weight: 7.5 kg (16 lb 8 oz)
- Supplied accessories: 8-pin monitor connecting cable VMC-1.5P (1.5m)
UHF loop antenna AN-8
Earphone ME-20B
Suction rubber



Compact 11-inch portable TV receiver/monitor for West European, French, Belgian and Italian standards

CVM-112UM

- System: West European TV standards (625-line UHF/VHF)
French TV standards (819-line VHF and 625 line UHF)
Belgian TV standards (625-line VHF), 50 fields
- Channel coverage: VHF West European 2 - 12
French 2, 4 - 12
Belgian 2 - 12
Italian B, D, H and H1
UHF 21 - 69
- Picture tube: 11" measured diagonally, 90° deflection
- Receptacles: 8-pin, VHF (M-type) (bridge out), mini
- Power requirements: AC 220V (changeable to 110, 130 or 240V with AC voltage selector), 50/60Hz, 37W
- Dimensions: 302(W)×314(H)×303mm(D) (11¾×12¾×11¾") approx.
- Weight: 7.6 kg (16 lb 12 oz) approx.
- Supplied accessories: Earphone ME-20B
Loop antenna AN-8
8-pin monitor connecting cable VMC-1.5P (1.5m)



11-inch portable TV receiver/monitor for British standard UHF channels

CVM-110UK

- System: British TV standards (625-line UHF, 50 fields)
- Channel coverage: British UHF 21 - 69
- Picture tube: 11" measured diagonally, 90° deflection
- Receptacles: 8-pin, VHF (M-type) (bridge out), mini
- Power requirements: AC 240V, 50/60Hz, 29W
- Dimensions: 286(W)×295(H)×302mm(D) (11¼×11¼×11¾")
- Weight: 7.5 kg (16 lb 8 oz)
- Supplied accessories: 8-pin monitor connecting cable VMC-1.5P (1.5m)
Earphone ME-20B
Loop antenna AN-8
Smoked filter
Polishing cloth
Suction rubber

TRINITRON color TV receiver/monitors

- Brighter, sharper, greater color by TRINITRON color system.
- Delivers picture and sound during both recording and playback.
- Receives British TV standards (CVM-1320UB), West European TV standards (CVM-1320E) VHF/UHF for recording and TV viewing.
- Versatile with 8-pin connector, UHF (M-type) connectors and mini jacks. Both connectors can be used at the same time.



13-inch TRINITRON color TV receiver/monitor for British standards

CVM-1320UB

- System: British color TV standards (625-line UHF)
 Channel coverage: UHF channels 21 - 68
 Picture tube: TRINITRON tube, 13" measured diagonally, 90° deflection
 Receptacles: 8-pin, UHF (M-type), mini
 Power requirements: AC 240V (changeable to 120V by resoldering transformer lead), 50Hz, 85W
 Dimensions: 506(W)×338(H)×389mm(D) approx.
 (19 $\frac{1}{2}$ "×13 $\frac{1}{2}$ "×15 $\frac{1}{2}$ ")
 Weight: 14.4 kg (31 lb 13 oz) approx.
 Supplied accessories: Polishing cloth
 8-pin monitor connecting cable VMC-3P (3m)



13-inch TRINITRON color TV receiver/monitor for West European standards

CVM-1320E

- System: West European TV standards (625-line UHF/VHF)
 Channel coverage: VHF West European 2 - 12, UHF 21 - 68
 Picture tube: 13" measured diagonally, 90° deflection
 Receptacles: 8-pin, UHF (M-type), mini
 Power requirements: AC 220V (changeable to 120V by resoldering transformer lead), 50Hz, 85W
 Dimensions: 520(W)×360(H)×400mm(D) (20 $\frac{1}{2}$ "×14 $\frac{1}{2}$ "×15 $\frac{1}{2}$ ")
 Weight: 19.5 kg (43 lb)
 Supplied accessories: Polishing cloth
 8-pin monitor connecting cable VMC-3P (3m)

Monochrome monitors



Compact and lightweight 7-inch monitor with high resolution, video only

PVM-76CE

- Picture tube: 7" measured diagonally, 90° deflection
 Horizontal resolution: More than 400 lines
 Receptacles: UHF (M-type) (bridge out)
 Power requirements: AC 220V (changeable to 110, 120 or 240V with AC voltage selector), 50/60Hz, 18W
 Dimensions: 229(W)×234(H)×285mm(D) (9×9 $\frac{1}{2}$ "×11 $\frac{1}{4}$ ")
 Weight: 3.9 kg (8 lb 10 oz)
 Supplied accessory: Polishing cloth



*Compact, lightweight 9-inch monitor with DC clamper
High resolution, video only*

PVM-90CE

- Picture tube: 9" measured diagonally, 90° deflection
 Horizontal resolution: More than 500 lines
 Receptacles: UHF (M-type) (bridge out)
 Power requirements: AC 110, 120, 220 or 240V (selectable with voltage selector), 50/60Hz, 24W
 Dimensions: 200(W)×215(H)×235mm(D) (8 $\frac{1}{8}$ "×8 $\frac{1}{2}$ "×9 $\frac{1}{2}$ ")
 Weight: 7 kg (15 lb 7 oz)
 Supplied accessory: Polishing cloth



*Metallic 20-inch monochrome monitor
High resolution, both video and audio*

PVM-200CE

- Picture tube: 20" measured diagonally, 114 deflection
- Horizontal resolution: More than 500 lines
- Receptacles: 8-pin, UHF (M-type) (bridge out), mini, 3-pin
- Power requirements: AC 220V (changeable to 100, 120 or 240V with AC voltage selector inside), 50/60Hz, 75W
- Audio power output: 2W with built-in speaker
10W with external speaker
- Dimensions: 515(W)×536(H)×370mm(D) (20 $\frac{1}{4}$ ×21 $\frac{1}{4}$ ×14 $\frac{1}{4}$ ")
- Weight: 29 kg (63 lb 15 oz) approx.
- Supplied accessories: 3-pin plug for external speaker, AC power cord
- Recommended optional accessory: Ceiling mount VS-11



*Four 4-inch monochrome monitors
Can be mounted on 19-inch standard rack
High resolution, video only*

PVM-400CE

- Picture tube: 4" measured diagonally, 50° deflection
- Horizontal resolution: More than 400 lines
- Receptacles: UHF (M-type) (bridge out)
- Power requirements: AC 220 or 240V (changeable by resoldering transformer lead), 50/60Hz, 55W
- Dimensions: 482(W)×133(H)×400mm(D) (19×5 $\frac{1}{4}$ ×15 $\frac{3}{4}$ ") approx.
- Weight: 16 kg (35 lb 4 oz) approx.
- Supplied accessory: Polishing cloth



*Video color pack for EV-310CE
and EV-320CE VTRs*

CLP-1CE

- Gives EV-310CE and EV-320CE VTRs full PAL and SECAM color record and playback capabilities.
- Single cable connection and no modifications needed.

- Power requirements: AC 110, 120, 220 or 240V selectable, 50/60Hz, 25W
- Dimensions: 495(W)×255(H)×230mm(D) (19 $\frac{1}{2}$ ×10×9")
- Weight: 9.5kg (4 lb 5 oz)
- Supplied accessories: CCJ-1 cable (1.6m)
AC power cord

*Rack mount adaptor for
the CLP-1CE*

RMM-1

- For 19-inch standard rack mounting



*RF adaptor for West European
TV standards*

CVA-52CE/CVA-53CE

- Converts an ordinary TV set to a video monitor without any modification, and permits reception of both video and audio signals from a VTR or video camera.

CVA-52CE: for West European VHF channel 2

CVA-53CE: for West European VHF channel 3

- Power requirements: AC 220-240V, 50/60Hz, 2W
- Dimensions: 145(W)×54(H)×176mm(D) (5 $\frac{3}{4}$ ×2 $\frac{1}{4}$ ×7")
- Weight: 1.2 kg (2 lb 10 oz)
- Supplied accessories: Antenna selector ANS-3
8-pin monitor connecting cable VMC-1.5P (1.5m)
Coaxial cable CCD-3-1.5W (3C2V, 1.5m)

Video camera accessories



Color RF adaptor for West European TV standards

CVA-103CE

■ Converts an ordinary color TV set to a color video monitor without any modification, and permits reception of both video and audio signals from a color VTR or color video camera.

■ For West European VHF channel 3

Power requirements: AC 220-240V, 50/60Hz, 4W
Dimensions: 145(W)×54(H)×176mm(D)
(5 $\frac{3}{4}$ ×2 $\frac{1}{8}$ ×7")

Weight: 1.2kg (2 lb 11 oz)

Supplied accessories: Antenna selector ANS-3
Coaxial cable CCD-3-1.5W
(3C2V, 1.5m)×2
Audio cable with phone plugs
(1.5m)



Color RF adaptors

CVA-200 series

■ Converts an ordinary color TV set to a color video monitor without any modification, and permits reception of both video and audio signals from a color VTR or color video camera.

■ Frequency setting is continuously variable.

CVA-200CE: for West European VHF channels 5-8

CVA-200CEU: for West European UHF channels 21-26

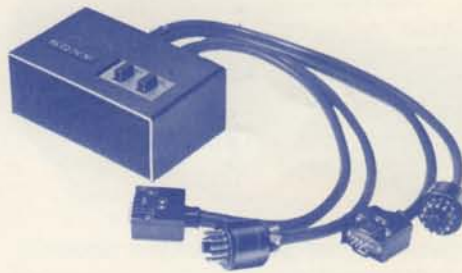
CVA-200UB: for British color TV standard UHF channels 21-26

CVA-200F: for French color TV standard UHF 21-26

Power requirements: AC 110-130V, or 220-240V adjustable, 50/60Hz, 4W
Dimensions: 210(W)×80(H)×170mm(D)
(8 $\frac{1}{4}$ ×3 $\frac{1}{8}$ ×6 $\frac{3}{4}$ ")

Weight: 2 kg (4 lb 6 oz)

Supplied accessories: Coaxial cable CCD-3-1.5W
(3C2V, 1.5m)×2
Audio cable with phone plugs
(1.5m)



Video duplicator for CV-2100ACE VTR

VDC-1ACE

■ Activates the tape duplicating facility of CV-2100ACE VTR.

■ With two CV-2100ACE VTRs and the VDC-1ACE, the picture and sound of the pre-recorded tape are transposed onto another tape with the same level.

Power requirements: DC 28V (supplied from the slave VTR)

Dimensions: 135(W)×53(H)×84mm(D)
(5 $\frac{1}{8}$ ×2 $\frac{1}{8}$ ×3 $\frac{1}{8}$ ")

Weight: 0.9kg (2 lb)



Monochrome sync distributor

DA-51E

■ Distributes monochrome sync signals (H/V drive) from CG-3CE sync generator to several video cameras.

Power requirements: AC 110-130V or 220-240V selectable, 50/60Hz, 8W

Dimensions: 440(W)×88(H)×230mm(D)
(17 $\frac{1}{8}$ ×3 $\frac{1}{2}$ ×9 $\frac{1}{8}$ ")

Weight: 4.5kg (10 lb)

Supplied accessories: Tally incomm cord (3m)×3
Rack mounting metal frame
AC power cord



PAL/SECAM color sync distributor

DA-101CE

■ Distributes sync signals from CG-101P/S color sync generator to up to five DXC-5000 series video cameras.

■ Color only.

■ Either table use or rack mount onto 19-inch standard rack.

Power requirements: AC 110-130V or 220-240V selectable, 50/60Hz, 16W

Dimensions: 440(W)×88(H)×230mm(D)
(17 $\frac{1}{8}$ ×3 $\frac{1}{2}$ ×9 $\frac{1}{8}$ ")

Weight: 5kg (11 lb)

Supplied accessories: Camera cable CCJ-1 (1.6m)×3
Rack mounting metal frame
AC power cord



Monochrome sync generator

CG-3CE

■ Supplies sync signals (H/V drive) for video cameras of CCIR standards to drive them stably, and transfer video signals from cameras to a video monitor, VTR or other equipment.

■ Crystal controlled, 2:1 interlace scanning system.

Power requirements: AC 110-130V or 220-240V selectable, 50/60Hz, 4W

Dimensions: 214(W)×75(H)×171mm(D)
(8 $\frac{3}{8}$ ×2 $\frac{9}{16}$ ×6 $\frac{3}{4}$ ")

Weight: 1.4 kg (3 lb 1 oz)



Color/monochrome video-audio distributor for CCTV use

DA-200E

■ Distributes color/monochrome video and audio signals from one VTR or one color video camera to 15 monitors.

■ For more than 15 monitor connections, more DA-200Es can be connected.

Power requirements: AC 110-130V or 220-240V selectable, 50/60Hz, 4W

Dimensions: 210(W)×75(H)×170mm(D)
(8 $\frac{1}{4}$ ×3×6 $\frac{3}{4}$ ")

Weight: 2 kg (4 lb 7 oz)



PAL color sync generator for DXC-5000P/-5020P color video camera

CG-101P

■ Supplies PAL standard sync signals for DXC-5000P color video cameras to drive them stably, and transfer video signals from cameras to a video monitor, VTR or other equipment.

Power requirements: AC 110-130 or 220-240V adjustable, 50/60Hz, 12W

Dimensions: 420(W)×88(H)×243mm(D)
(16 $\frac{1}{2}$ ×3 $\frac{1}{2}$ ×9 $\frac{5}{8}$ ")

Weight: 5.4 kg (8 lb)

Video tape recorder and Video camera accessories



SECAM color sync generator for DXC-5000CE color video camera

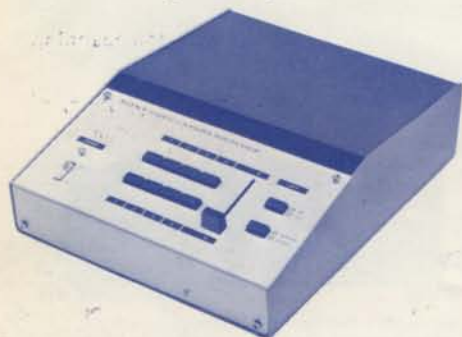
CG-101S

■ Supplies SECAM standard signals for DXC-5000CE color video cameras (with EN-5000S) to drive them stably, and transfer video signals from cameras to a video monitor, VTR or other equipment.

Power requirements: AC 110-130 or 220-240V, adjustable, 50/60Hz, 12W

Dimensions: 420(W)×88(H)×243mm(D)
(16½×3½×9½")

Weight: 5.4 kg (8 lb)



Video camera switcher

CMS-110CE

■ Allows various types of picture mixing: direct switching, fading-in and-out, overlapping and superimposition in either positive or negative form, using five video cameras.

Power requirements: AC 110-130V or 220-240V, adjustable, 50/60Hz, 12W

Dimensions: 274(W)×110(H)×380mm(D)
(10¾×4¾×15")

Weight: 4.8 kg (10 lb 10 oz)

Supplied accessories: CCF-5 cable (5m)
Polishing cloth
AC power cord



Video camera wiper

CMW-110CE

■ Permits vertical and horizontal wipes in desired picture mode with desired picture size between two cameras.

Power requirements: AC 110-130V or 220-240V, adjustable, 50/60Hz, 12.5W

Dimensions: 274(W)×110(H)×380mm(D)
(10¾×4¾×15")

Weight: 4.6kg (10 lb 8 oz)

Supplied accessories: Same as those of the CMS-110CE above



Special effect generator for semi-professional use

SEG-2CE

■ Allows various types of picture mixing: switching, fading, lap dissolving, superimposition, wiping two video sources, corner insertion and keyed insertion.

■ Can be mounted on 19-inch standard rack.

■ Can be used with virtually any combination of Sony cameras, monitors and VTRs.

Power requirements: AC 110, 127, 220 or 240V (selectable with voltage selector), 50/60Hz, 60W

Dimensions: 480(W)×177(H)×375mm(D)
(18¾×7×14¾")

Weight: 15 kg (33 lb 1 oz)

Supplied accessories: CCF-1.5 cable (1.5m)
CCJ-1 cable (1.6m)
AC power cord
Extension card



Junction box for tally light and intercommunication facilities

JB-3CE

■ Adapts the SEG-2CE special effect generator to accommodate up to four AVC-4200ACE or AVC-4600CE video cameras.

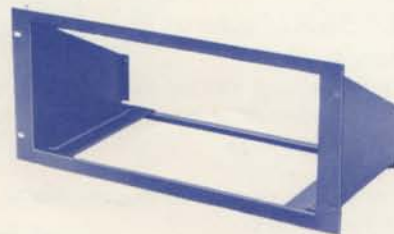
■ Provisions are made for tally light, intercom and return-video connections.

Power requirements: DC 12V (supplied from SEG-2CE)

Dimensions: 480(W)×88(H)×248mm(D)
(18¾×3¾×9¾")

Weight: 4.5 kg (9 lb 15 oz)

Supplied accessories: CCF-1.5 cable (1.5m)×4
CCJ-1 cable (1.6m)



Rack mount adaptor for the DXC-5000P, DXC-5000CE or DXC-5020P color camera control unit

RMM-3

■ For 19-inch standard rack mounting



PAL color special effect generator for semi-professional use

SEG-200P

■ Used for DXC-5000P PAL color video cameras.

■ Functions: same as the SEG-2CE.

■ Can be mounted on 19-inch standard rack.

■ Needs PSA-101P subcarrier phase shifter.

Power requirements: AC 110, 127, 220 or 240V (selectable with voltage selector), 50/60Hz, 55W

Dimensions: 480(W)×177(H)×375mm(D)
(18¾×7×14¾")

Weight: 15 kg (33 lb 1 oz)

Supplied accessories: Junction box JB-200
Camera cable CCJ-1 (1.6m)×2
4P intercom cord×4
AC power cord
Extension card



Subcarrier phase shifter

PSA-101P

■ Used with DA-101CE color sync distributor to correct subcarrier phase differences incurred in camera hookups with a special effect generator.

■ Phase adjustments can be performed for up to five color video cameras independently.

■ Can be mounted on 19-inch standard rack.

Phase adjustment range: 0°-360°: 0°, 90°, 180°, 270° four-step selection;
Fine adjustment, approx. 0°-90° continuously within each step

Input signal: Subcarrier 2V p-p, 75 ohms, unbalanced

Output signal: Subcarrier 2V p-p, 75 ohms, unbalanced

Power requirements: DC 18V (supplied from the DA-101CE), 7.2W

Dimensions: 480(W)×45(H)×250mm(D)
(18¾×1¾×9¾")

Weight: 3 kg (6 lb 10 oz)

Rack mount adaptor for the EV-310CE or EV-320CE VTR

RMM-2

■ For 19-inch standard rack mounting

Rack mount adaptor for the EN-5000S and the CG-101P/S

RMM-5

■ For 19-inch standard rack mounting



Cable compensator for stable color/monochrome transmission

VA-200E

- Compensates the attenuation caused by long-distance transmission of color/monochrome video signals with coaxial cable.
- Especially effective for transmission of color video signals.

Power requirements: AC 110 - 130V or 220 - 240V selectable, 50/60Hz, 6W

Maximum cable length: 5C2V 1.2km, 10C2V 2km
Dimensions: 210(W)×75(H)×170mm(D)
(8 $\frac{1}{8}$ ×3×6 $\frac{3}{4}$ ")

Weight: 1.4 kg (3 lb.1 oz)



Camera adaptor for AVC-3420CE video camera

CMA-3CE

- To use the battery-operated video camera AVC-3420CE with Sony $\frac{1}{2}$ " VTRs. The AVC-3420CE is the companion camera of the battery-operated VTR AV-3420CE.

Power requirements: AC 110 - 130V or 220 - 240V selectable, 50/60Hz, 23W

Dimensions: 214(W)×75(H)×171mm(D)
(8 $\frac{3}{8}$ ×2 $\frac{9}{16}$ ×6 $\frac{3}{4}$ ")

Weight: 1.9 kg (4 lb 3 oz)

Supplied accessories: AC power cord
Plug adaptor PC-1
(mini plug-phone jack)



AC power adaptor/Battery charger for battery-operated AV-3420CE VTR

AC-3420CE

- For use with the battery-operated AV-3420CE VTR on household current, and for charging rechargeable battery for the AV-3420CE.

Input power: AC 110, 127, 220 or 240V selectable, 50/60Hz

Dimensions: 131(W)×123(H)×316mm(D)

Weight: 3.8kg



Monochrome video camera selector

VCS-31

- Three video cameras can be connected: equipped with 6-pin connectors.

- Any one of the three pictures can be freely selected for a VTR or viewing on a monitor screen.

- Four monitor outputs: three outputs for monitoring pictures from three different cameras; one output for monitoring one selected picture.

- Applicable for monitoring of activities that are widely separated and for diversified survey.

Dimensions: 175(W)×80(H)×100mm(D)
(6 $\frac{7}{8}$ ×3 $\frac{1}{8}$ ×3 $\frac{5}{8}$ ")

Weight: 0.9 kg (2 lb)

Supplied accessories: CCF-5 camera cable (5m)
CMC-1 monitor cable (1m)



Video and audio selector

VCS-50M

- Five video and audio signals can be connected: equipped with five UHF (M-type) connectors and five mini jacks.

- Any one of the five input signals can be freely selected for a VTR or viewing on a monitor screen.

Dimensions: 445(W)×45(H)×143mm(D)
(17 $\frac{1}{2}$ ×1 $\frac{3}{4}$ ×5 $\frac{3}{4}$ ")

Weight: 2kg (4 lb 6 oz)

Supplied accessory: Rack mounting metal frame



Monochrome film camera attachment

VCR-16

- Used with AVC-4600CE 1-inch vidicon camera for viewing 8 or 16mm filmstrips on a monitor in direct light, or for recording onto tapes while monitoring if a VTR is added.

- Can be connected to any projector and any video camera.

Dimensions: 177(W)×109(H)×55mm(D)

Weight: 610g



Monochrome film camera attachment

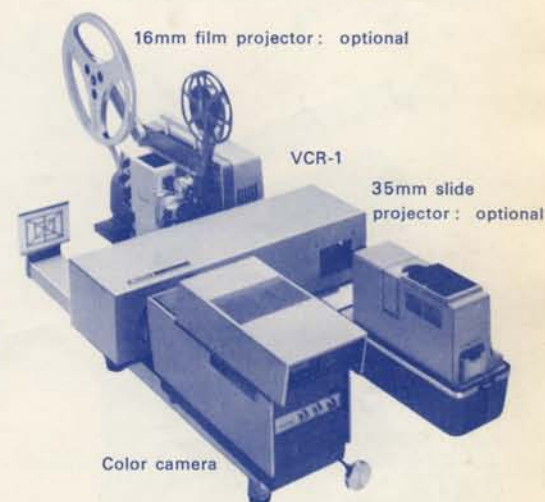
VCR-16B

- Used with AVC-3000, AVC-3200 series or AVC-4200ACE $\frac{2}{3}$ -inch vidicon camera.

- Functions: same as the VCR-16

Dimensions: 143(W)×116(H)×55mm(D)

Weight: 600g



Color film chain adaptor

VCR-1

- Adaptor used with DXC-5000 series color video camera for easily viewing 16mm color filmstrips or 35mm slides on a monitor, or for recording onto tapes while monitoring if a VTR is added.

- Two projectors can be connected; either can be freely selected.

- Convenient "telop" facility for superimposition of letters or any other patterns.

Dimensions: 640(W)×290(H)×970mm(D)

Weight: 14kg

Supplied accessory: Close-up lens VCL-680



Battery pack for the AV-3420CE VTR

BP-20

Video tape recorder and Video camera accessories



Remote control unit for EV-320CE VTR

EVR-320

- Equipped with editing buttons.
- Controls: Record, Playback, Rewind, Fast forward, Stop, Audio dubbing, Slow/Still, Cut in, Cut out and Add.
- Cable length: 5m (If longer cable is needed, employ Sony RCC cable.)

Dimensions: 174(W)×65(H)×129mm(D)

Weight: 2.3kg



Car battery cord for the AV-3420CE VTR

DCC-2400

- For use with the battery-operated AV-3420CE VTR from a 12V car battery using car cigarette lighter socket.

Power input: DC 12 ~ 16V

Power output: DC 13V

Weight: 350g

Cord: 4.7m



Monopod for AVC-3420CE video camera

VCT-1

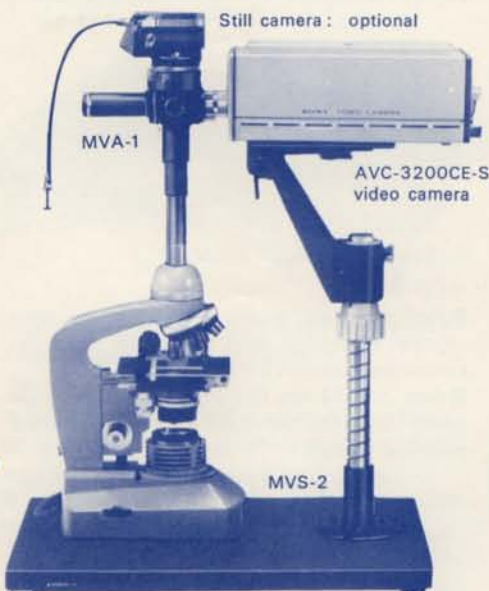


Intercommunication headset

DR-10A

- For intercommunication among JB-3CE junction box, AVC-4200ACE and AVC-4600CE video cameras, and DXC-5000 series color video cameras.

Weight: 250 g (8.8 oz)



Microscope attachment

MVA-1

- For magnifying and observing objects under a microscope on a video monitor, or recording simultaneously while monitoring, when a VTR is added.

- A choice of any of three optical paths can be easily made with a single knob: to video camera, to 35mm still camera or to the ocular.

Dimensions: 75(W)×200(H)×180mm(D)

Weight: 650g approx.

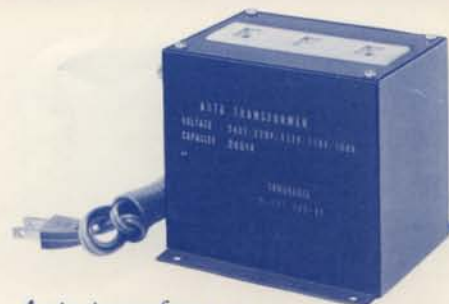
Video camera stand

MVS-2

- Supports a video camera when used with a film projector or a microscope.

Dimensions of base plate: 350×440mm

Weight: 4.7 kg



Auto transformer

VR-1

Input/output voltages: AC 100, 110, 117, 220 or 240V

Capacity: 200VA

Dimensions: 120(W)×115(H)×112mm(D)
(4 3/4×4 1/2×4 1/4")

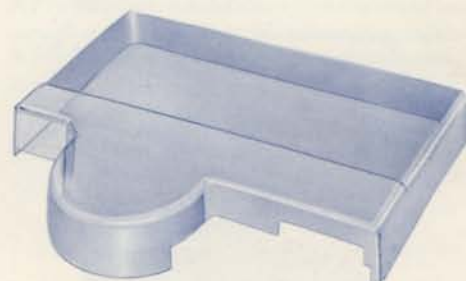
Weight: 3.3kg (7 lb 4 oz)

Input voltage is set for 240V, and output for 100V. Equipped with 3 receptacles.



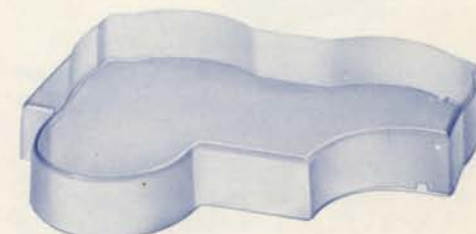
Tripod for AVC-3000 & 3200 series video cameras

VCT-20A



Plastic dust cover for CV-2100ACE VTR

CVO-3ACE



Plastic dust cover for AV-3620CE VTR

CVO-4A

Video Tapes



1/2-inch High Density Video Tape—V-60 series (for Sony AV-CE series VTRs)

- High density video tape
- Long tape life
- Wide frequency range
- Noise free picture
- Special back coating

Model	Reel size	Length	Playing time
V-60D	4.6"	216m (720ft)	20 minutes
V-60H	5"	310m (1010ft)	30 minutes
V-60E	7"	216m (720ft)	20 minutes
V-62	7"	610m (2000ft)	60 minutes

1/2-inch Empty Reel

RH-5V	4.6"	plastic empty reel for V-30F, V-30D and V-60D
RH-5E	5"	plastic empty reel for V-30H and V-60H
RH-72V	7"	plastic empty reel for V-30, V-31 and V-60E
RH-7V	7"	plastic empty reel for V-31E, V-32 and V-62



1/2-inch Video Tape—V-30 series (for Sony CV series VTRs)

- Long tape life
- Less dropout
- Noise free picture
- Special back coating

Model	Reel size	Length	Playing time
V-30F	4.6"	115m (380ft)	6.5 minutes
V-30D	4.6"	255m (845ft)	14.5 minutes
V-30H	5"	370m (1210ft)	20 minutes
V-30	7"	115m (380ft)	6.5 minutes
V-31	7"	380m (1240ft)	20 minutes
V-31E	7"	580m (1900ft)	30 minutes
V-32	7"	720m (2370ft)	40 minutes



Endless loop, 1/2-inch video tape cartridge

LV-5CE

- No need to rewind tape. The tape is continuously played until the machine stops.
- 5-minute continuous recording and playback.
- VTR: Sony CV series VTRs

Dimensions: 161(W)×36(H)×161mm(D)
Weight: 320g

1-inch Video Tape—V-12 series (for Sony EV series VTRs)

- Wide frequency range
- High signal-to-noise ratio
- Less dropout
- Long tape life
- Special back coating

Model	Reel	Length	Playing time
V-12-30	8", plastic	395m (1290ft)	35 minutes
V-12-30A	8", metal	395m (1290ft)	35 minutes
V-12-60	8", plastic	750m (2460ft)	70 minutes
V-12-60A	8", metal	750m (2460ft)	70 minutes

1-inch Empty Reel

R1-8V (P)	8"	plastic empty reel for V-12 series
R1-8V (M)	8"	metal empty reel for V-12 series

Microphones

Electret Condenser Microphones

Sony Electret Condenser Microphones are the first professional quality microphones ever mass produced with low cost and high reliability. Some unique features are: very high sensitivity, special high-polymer diaphragm for microphone capsule, FET (Field Effect Transistor) in amplifier section, stability and durability, convenience—long life battery operation, easy battery replacement and compact styling, excellent signal to noise ratio, wide dynamic range.



Stand : supplied

ECM-18N

Two-tone colored handy uni-directional microphone with built-in wind screen



Holder : supplied
Stand : optional, A-6N

ECM-250

Uni-directional handy microphone with built-in wind screen



Holder and stand : supplied

ECM-21N

*Slim professional style uni-directional microphone
Brilliant performance for exacting acoustical requirements*



Holder : supplied
Stand : optional, A-6N

ECM-22P

Professional quality microphone with "phantom" power feed system



Holder-pin, holder-clips and stand : supplied

ECM-50

Finest performance omni-directional "lavalier" microphone with tie clip



Holder : supplied
Stand : optional, A-6N

ECM-52

Handy indoor-outdoor use, quality microphone with fine uni-directional characteristics



Holder : supplied
Stand : optional, A-9P or A-12

ECM-51

Omni-directional working-distance, quality microphone with telescopic arm



Holder : supplied
Stand : optional, A-9P or A-12

ECM-53

Professional-quality uni-directional microphone with flexible arm

	Model	Directivity	Frequency response	Output impedance	Output level (0dB=1V/10μ bar)	Plug	Weight
Electret Condenser Microphones	ECM-18N	Uni-directional	50 - 12,000Hz	250 ohms unbalanced	-56.8dB	Mini	180g (6.3 oz)
	ECM-250	Uni-directional	50 - 14,000Hz	200 ohms unbalanced	-57.0dB	Mini	145g (5.1 oz)
	ECM-21N	Uni-directional	40 - 16,000Hz	25 ohms 250 ohms 600 ohms balanced	-60.8dB -53.2dB -50.0dB	Pigtail	210g (7.4 oz)
	ECM-22P*	Uni-directional	20 - 20,000Hz	250 ohms 600 ohms balanced	-54.8dB -51.0dB	Pigtail	110g (3.91 oz)
	ECM-50	Omni-directional	40 - 14,000Hz	50 ohms 250 ohms 600 ohms balanced	-60.8dB -53.2dB -50.0dB	Cannon	Microphone 4.5g (0.16 oz) Connector 100g (3.5 oz)
	ECM-51	Omni-directional	40 - 14,000Hz	250 ohms balanced	-53.2dB	Pigtail	90g (3.2 oz)
	ECM-52	Uni-directional	40 - 16,000Hz	50 ohms 250 ohms 600 ohms balanced	-60.8dB -53.2dB -50.0dB	Pigtail	110g (3.85 oz)
	ECM-53	Uni-directional	40 - 16,000Hz	50 ohms 250 ohms 600 ohms balanced	-60.8dB -53.2dB -50.0dB	Cannon	Microphone 220g (7.8 oz) Connector 100g (3.5 oz)

* With the use of an optional AC power adaptor AC-148A, the ECM-22P operates on AC.

Lenses

■ Zoom lenses with single-rod knob for AVC-4600CE video camera



V5x20MSB

V5x20MSB Special mount 20 – 100mm F2.5



V10x15MSB

V10x15MSB Special mount 15 – 150mm F2.8

■ Zoom lenses with single-rod knob for AVC-4000ACE video camera and DXC-5020P color video camera

V5x20MS Special mount 20 – 100mm F2.5

V10x15MS Special mount 15 – 150mm F2.8

■ Zoom lens with single-rod knob for AVC-4200ACE video camera



H8x12.5A

H8x12.5A C mount 12.5 – 100mm F2

■ Zoom lens for AVC-3200 series video cameras

H8-1208 With single-rod knob, C mount 12.5 – 100mm F2

■ For 3/8-inch vidicon cameras: AVC-3000CE/E, AVC-3200 series and AVC-4200ACE



VCL-1206

VCL-1206 Zoom lens, C mount 12.5 – 75mm F1.8



VCL-08

VCL-08 Wide angle lens, C mount 8.5mm F1.5

VCL-50 Telephoto lens, C mount 50mm F1.8

■ For 1-inch vidicon camera: AVC-4600CE



VCL-20

VCL-20 Zoom lens, C mount 20 – 80mm F2.5



507

507 lens Wide angle lens, C mount 12.5mm F1.9



214

214 lens Telephoto lens, C mount 75mm F1.9

■ Close-up lenses for DXC-5000P/CE color video cameras

*Used with the built-in zoom lens of the camera

Close-up possible between

VCL-1100 110 – 60cm

VCL-2100 210 – 80cm

■ Variable density filter for DXC-5000P/CE color video cameras



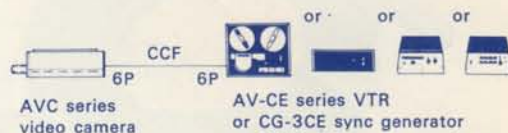
VDF-1 Reduces incoming light from 1/4 to 1/8 (continuously variable).

*Used with the camera lens, to reduce incoming light when used in bright places or outdoors.

Connecting Cables

CCF cables

■ Camera extension cables for the following connections. Equipped with 6-pin plugs.

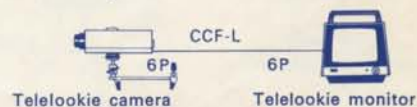


AV-CE series VTR
or CG-3CE sync generator
or CMW video camera wiper
or CMS video camera switcher



CCF-5 5m
CCF-10 10m
CCF-25 25m
CCF-50 50m

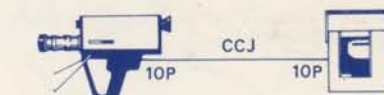
■ Camera extension cables for Sony "Telelookie" video communications system, TLC-1200CE only.



CCF-25L 25m (with lockable 6-pin plugs)
CCF-50L 50m (with lockable 6-pin plugs)

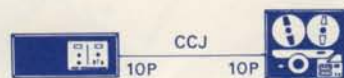
CCJ cables

■ Video-audio-power camera extension cables for the following connections. Equipped with 10-pin plugs.



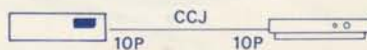
AVC-3420CE portable
video camera

AV-3420CE portable
VTR



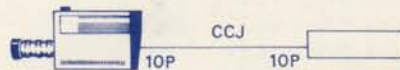
CLP-1CE color pack

EV series VTR



DXC-5000 series
color video camera
control unit

CG-101P/CE
color sync generator



AVC-4000ACE
AVC-4200ACE
AVC-4600CE
video camera

JB-3CE junction box

Connecting Cables



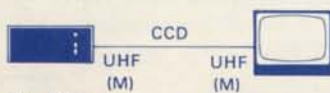
CCJ-1 1.6m
CCJ-5 5m
CCJ-10 10m

CCD cables

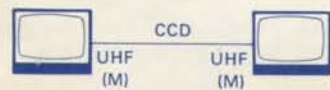
Video or pulse signal extension cables for the following connections. Equipped with UHF (M-type) plugs.



AV-CE and CV series VTRs except AV-3420CE All Sony video monitors



DA-200E video-audio distributor All Sony video monitors



All Sony video monitors All Sony video monitors



Video camera with UHF (M-type) receptacle All Sony video monitors



CCD-3-1W 3C2V, 1m
CCD-3-3W 3C2V, 3m
CCD-5-5W 5C2V, 5m
CCD-5-10W 5C2V, 10m
CCD-5-25W 5C2V, 25m
CCD-5-50W 5C2V, 50m

CMC cables

Camera-monitor connecting cables
CMC-1 1.5m, equipped with 8-pin plug and mini plug.



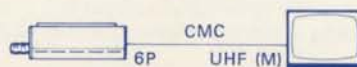
mini

8P



CMW video camera wiper CMS video camera switcher VCS camera selector CVM video monitor

CMC-10A 10m, equipped with 6-pin plug and UHF (M-type) plug.



Video camera with 6-pin receptacle Video monitor with UHF (M-type) receptacle

VMC cables

Monitor connecting cables



8P

8P

VMC-5P 5m
VMC-10P 10m
VMC-25P 25m
VMC-50P 50m

Connecting cable for a VTR and monitor.
Without 75-ohm terminal.

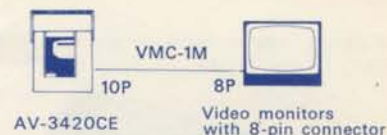


AV-CE and CV series VTRs except AV-3420CE Video monitors with 8-pin connector

VMC-1M

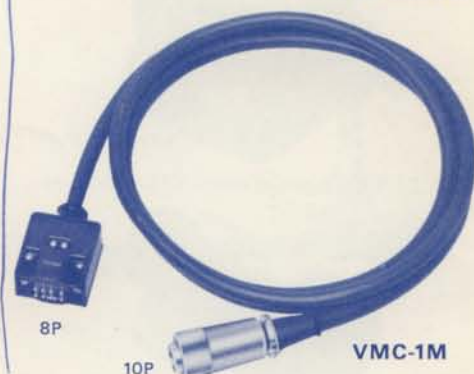
1.5m, equipped with 10-pin plug and 8-pin plug.

*Connecting cable for portable video tape recorder AV-3420CE (10P) and a monitor (8P).



AV-3420CE

Video monitors with 8-pin connector



VMC-1H

*8-pin male-to-male adaptor (8P female—8P female) to connect two 8-pin cables.

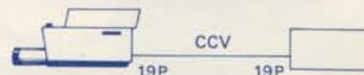
CCV cables

CCV-25 25m, equipped with 19-pin plugs.
CCV-50 50m, equipped with 19-pin plugs.



19P

19P



DXC-5000 series color video camera head DXC-5000 series color video camera control unit

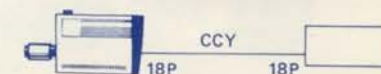
CCY cables

CCY-25 25m, equipped with 18-pin plugs.
CCY-50 50m, equipped with 18-pin plugs.



18P

18P



AVC-4600CE video camera head

AVC-4600CE video camera control unit

"Telelookie" TV Communications System



Sony "Telelookie"

Easy-to-use, closed-circuit TV communications system

TLC-1200CE

"Telelookie" is an easy-to-use, easy-to-install system for remote video observation and audio communication. It's ideal for security applications in banks, stores, hotels; for special patient care in hospitals; as an efficient, video-interphone for busy executives; and many other home and business uses.

■ The system includes: A high performance camera with mounting clamp; a 7-inch monitor TV with built-in main interphone, a branch interphone and connecting cables.

■ Light and compact, you can set it up in a small space using only a screwdriver.

■ Pictures are always clear and stable. Automatic sensitivity control for most suitable lighting condition adjusts from 300 to 100,000 lux (30 to 10,000 footcandles).

■ Calling and talking possible between camera and monitor.

■ Pictures appear instantly by calling from the main interphone, and disappear in about two minutes after caller finishes.

Power requirements: AC 120V (changeable to 110, 220 or 240V by re-soldering transformer lead), 60 Hz, 32W, H: 15.75 kHz, V: 60 Hz

or
AC 220V (changeable to 110, 120 or 240V by re-soldering transformer lead), 50 Hz, 32W, H: 15.625 kHz, V: 50 Hz

DC 12V (Sony rechargeable battery VBU-2/VSB-3 or car battery with Sony car battery cord DCC-2AW)

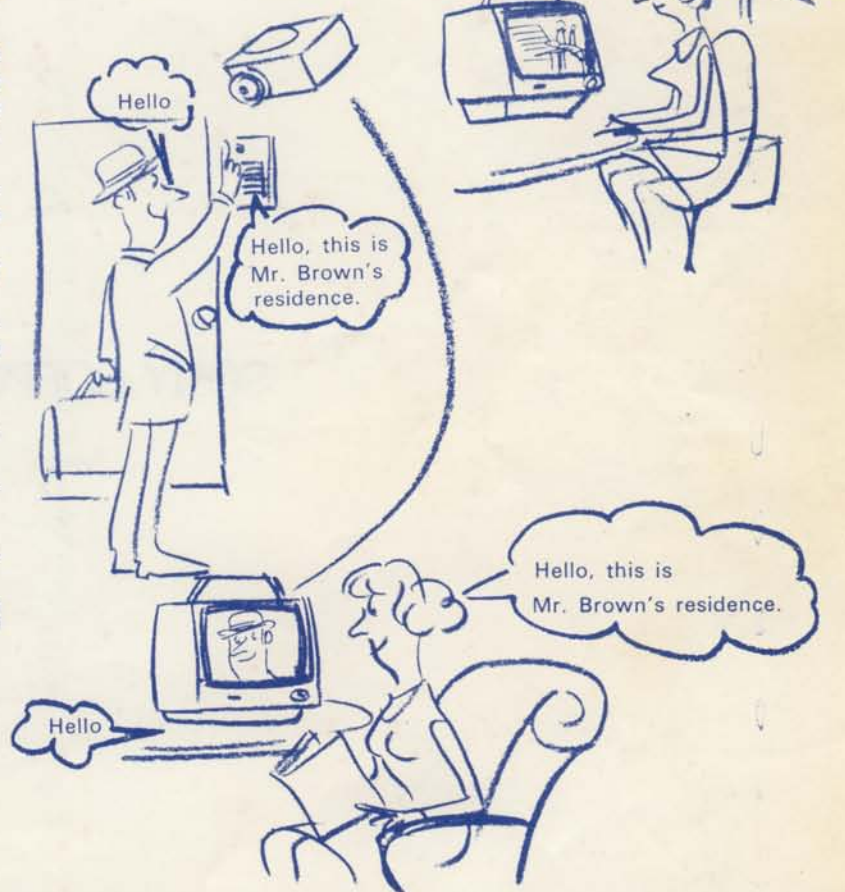
Maximum extension cable length: 50m

Dimensions and weight: Telelookie camera 82(W)×54(H)×150mm(D) (3¼×2¼×5⅝") 1kg (2.2 lb) including lens

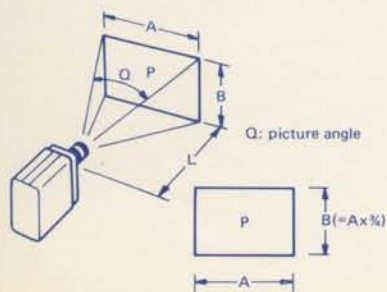
Telelookie monitor 210(W)×220(H)×260mm(D) (8¼×8⅞×10¼") 4kg (8.8 lb)

Supplied accessories: Lens F1.7, 16mm, "C" mount
Branch interphone (with 15m cable)
Camera cable CCF-10L (10m)
Camera clamp

Recommended optional accessories: Camera cable CCF-25L (25m), CCF-50L (50m)



How to calculate the range of your image

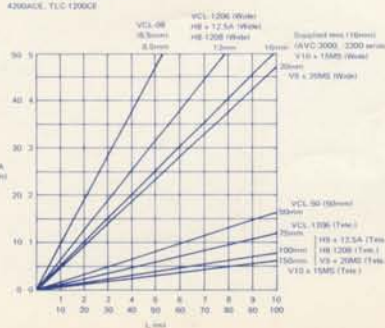


Vertical range (B) can be calculated according to the following formula,

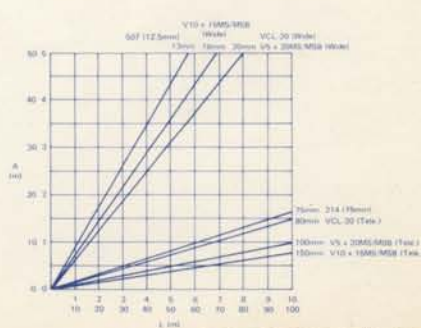
$$B = A \times \%$$

Horizontal range of your image (A)

For 213 inch screen:
AVC 2000CE, 3000E, 4V (2000E)
3000ES, 4V, AVC 2000ACE, AVC
4200ACE, TLC 1200CE



For 1 inch screen:
AVC 6000CE, DVC 5000 series



Note: Your reader will actually show 10% more than your desired image. However, this extra 10% will later be left out automatically due to the over-sampling of your video monitor.

SONY CORPORATION