

SECTION 2 VIDEO CAMERAS

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1 Production video cameras/camcorders

DXC-D30 series

3-chip color video camera

•Incorporates DSP(Digital Signal Processing) technology based on the TruEye™ •Directly dockable to analog recorders (PVV-3 and EVV-9000) •Directly dockable to the DSR-1 DVCAM Digital Recorder •Compact size, lightweight and low power consumption •High density three 2/3-inch IT Power HAD sensors and the new digital signal processing circuits offer superior picture quality

- 850 TV lines of horizontal resolution
- Excellent signal-to-noise ratio of 63dB
- High sensitivity of F11.0 at 2000 lx
- Smear level -125dB

•TruEye Process realizes faithful color reproduction •High degree of stability in video output (offered by DSP)

•Uniformity of picture tone among multiple DXC-D30 units (offered by DSP) •Skin Detail with auto detection system of active area •Horizontal detail frequency control •Red vertical detail correction •New DCC Plus function on the basis of DynaLatitude processing - for ideal video level distribution in any situations •Clean Detail by DSP provides Black Halo-free natural lines •Clear Scan function for shooting computer displays without horizontal bands appearing across display screen •Hyper Gain mode provides the combined effect of +30dB of electronic gain-up and +6dB of DPR (Dual Pixel Readout) under 1 lux illumination •DPR (Dual Pixel Readout) technology realizes noiseless picture even when gain value is increased •TLCS (Total Level Control System) to ensure the correct exposure even under/ over the limits of automatic iris control •Intelligent Auto Iris control function

•EZ Mode and EZ Focus functions enable cameramen to get ready for shooting swiftly •Easy-to-use File Management System (Five factory files and three user files available)

•The 10-pin REMOTE connector (RS-232C standard) allows control from external computers •ATW (Auto Tracing White Balance) function automatically adjusts white balance when lighting conditions change •Programmable gain mode allows precise gain selection from 8 gain values •Three mode auto iris system- STD (Standard), BACK L(Back Light) and SPOT L(Spot Light) •DCC (Dynamic Contrast Control) circuit can reproduce 600% dynamic range •Variable Speed Electronic Shutter •Clear Scan •Supplies a 1kHz audio reference signal simultaneously with the color bar signal •Date and time can be superimposed on the video signal •Directly dockable with DSR-1 DVCAM Digital Recorder (Refer to the description of the DSR-130) •Directly dockable with the PVV-1A/3 for high quality component acquisition (Refer to the description of PVV-D30) or with the EVV-9000 for handy operation •Can be combined with the recorders from Panasonic or JVC via the CA-512A or CA-513 •When combined with CA-537/327, 26/14-pin connectors provides signal output in Y/R-Y/B-Y, VBS, Y/C and RGB forms for connection with various equipment •Can be connected with computer equipment via CA-325A/325B camera adaptor •Adjustable shoulder pad

•Monitor out function

Supplied accessories: Wind screen
Lens mount cap
Chart for flange focal
Operating instructions



*Camera adaptor is optional

Specifications

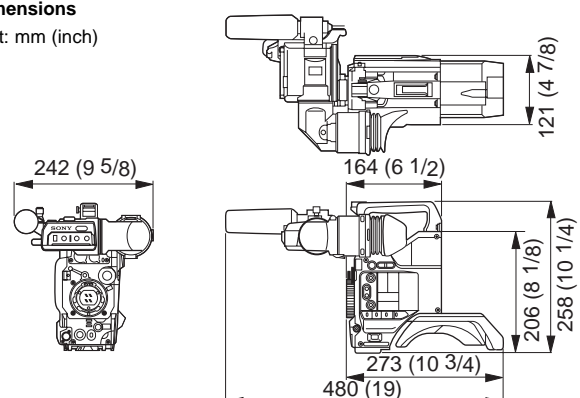
General	
Image device:	2/3-inch Interline Transfer CCD (×3) 811(H) × 508(V) total picture elements 768(H) × 494(V) effective picture elements
Built-in filters:	1: 3200K 2: 5600K + 1/8ND, 3: 5600K, 4: 5600K+1/64ND
Lens mount:	Bayonet-mount
Video signal system:	NTSC standard
Sync system:	Internal or external with VBS or BS
Horizontal resolution:	850TV lines
Minimum illumination:	0.5 lx with F1.4, Hyper Gain (DPR+30dB) 0.8 lx with F1.8, Hyper Gain (DPR+30dB) F11.0 at 2000 lx (3200K, 89.9% reflectance)(typical)
Sensitivity:	-3dB, 0dB, +3dB, +6dB, +9dB, +12dB, +18dB, * DPR+18dB, +24dB, * DPR+24dB, Hyper Gain (* DPR+30dB)
Gain selection:	
S/N ratio:	63dB (typical)
Power requirements:	DC12V
Power consumption:	12W (without VF/CA-537P)
Operating temperature:	-10 to 45°C (23 to 113°F)
Mass:	Approx. 2.3 kg (5 lb 1 oz, for camera head only) Approx. 4.5 kg (9 lb 15 oz, with VF and lens, w/o lens hood)
Inputs/outputs	
INTERFACE:	Pro 50-pin, Pro 76-pin DIGITAL
VIDEO OUT:	BNC type
LENS:	12-pin
VF:	DIN 8-pin, 20-pin
REMOTE:	10-pin, stereo mini
MONITOR OUT:	BNC type

* DPR = +6dB, DPR +18dB = +24dB, DPR+24dB = +30dB, DPR+30dB = +36dB

	DXC-D30F1	DXC-D30K1	DXC-D30L1	DXC-D30H
DXC-D30 Camera head	Yes	Yes	Yes	Yes
Camera handle	Yes	Yes	Yes	Yes
DXF-701WS Viewfinder	Yes	Yes	Yes	Option
External microphone	Yes	Yes	Yes	Not available
VCT-U14 Tripod adaptor	Yes	Yes	Yes	Option
VCL-918BY Zoom lens	Yes	Yes	Option	Option
LC-421 Carrying case	Yes	Option	Option	Option
RM-LG1 Logger	Yes	Yes	Yes	Yes

Dimensions

Unit: mm (inch)



1 Production video cameras/camcorders

DXC-D30WS

Wide-screen switchable color video camera

•Aspect ratio is switchable (16:9 wide screen or 4:3) •All the functions of the DXC-D30 are incorporated •Power HAD WS CCD •16:9 ID information is included (DVCAM system such as DSR-1/60/80 detects 16:9 ID and can record or play back the 16:9 video signal)

Supplied accessories: Remote Control Unit RM-LG1
Viewfinder DXF-701WS (incl. Mic holder)
External microphone (incl. Mic. cable)
Wind Screen
Tripod adaptor VCT-U14
Angle plate for the DXC-D30WS
Lens cap
Flange back chart
Operation manual for the DXC-D30
Operation manual supplement for the DXC-D30WS
ClipLink Guide

Specifications

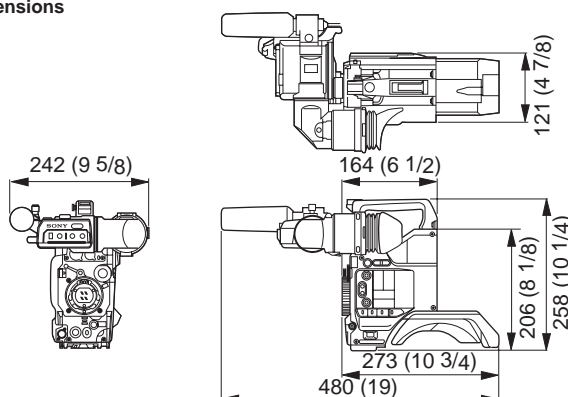
Image device: 3-chip 2/3-inch, Interline-Transfer CCD
Optics: F1.4 medium index prism system
Effective picture elements: 980 × 494 (H × V)
Total picture elements: 1038 × 504 (H × V)
Sensing area: 9.6 mm × 5.4 mm
Built-in filters:
1: 3200/3000K
2: 5600K+1/8ND
3: 5600K
4: 5600K+1/64ND
Lens mount: Sony 2/3-inch Bayonet mount
Signal system: NTSC color system
Scanning system: 2:1 interlaced, 525 lines, 60 fields/s
Horizontal frequency: 15.734 kHz
Vertical frequency: 59.94 Hz
Sync system: Internal and External with the VBS or BS signal
Horizontal resolution: 16:9 mode: 700TV lines
4:3 mode: 700TV lines
Vertical resolution: 400TV lines (without EVS)
450TV lines (with EVS)
Minimum illumination: 0.5 lx with F1.4, Hyper gain (30 dB+DPR)
0.8 lx with F1.8, Hyper gain (30 dB+DPR)
Sensitivity: F11 at 2000 lx (3200K, 89.9% reflectance) (typical)
Gain selection: -3dB, 0dB, 3dB, 6dB, 9dB, 12dB, 18dB, 18dB+DPR, 24dB, 24dB+DPR, Hyper Gain (30dB+DPR)
Shutter speed selection: OFF, 1/60, 1/250, 1/500, 1/1000, 1/2000 s
Clear scan selection: 60.4 to 200.3 Hz
Signal-to-noise ratio: 63 dB (typical)
Registration: 0.05% (all zones, without lens)
Geometric distortion: Below measurable level
Video output: Camera head BNC connector:
VBS: 1.0 Vp-p, sync negative
26-pin connector of CA-537 docked to DXC-D30WS
VBS: 1.0 Vp-p, sync negative
Y/R-Y/B-Y:
Y: 1.0 Vp-p, sync negative
R-Y/B-Y: 700 mVp-p
RGB: 1.4 Vp-p
Y/C: Y: 1.0 Vp-p, sync negative
C: 286 mVp-p (burst level)
Inputs/ Outputs: INTERFACE: Pro76-pin DIGITAL,
Pro 50-pin
VIDEO OUT: BNC-type
MONITOR OUT: BNC-type
LENS: 12-pin
VF: DIN 8-pin, 20-pin
REMOTE 1: Stereo mini
REMOTE 2: 10-pin
Power requirements: DC 12 V (10.5 to 17 V)
Power consumption: 14.9 W (without VF)
15.3 W (when docked with the DSR-1/P)
17 W (with VF)
Operating temperature: -10°C to 45°C (14°F to 113°F)
Storage temperature: -20°C to 60°C (-4°F to 140°F)
Weight: Approx. 2.5 kg (5 lb 8 oz) for camera head only
Approx. 3.3 kg (7 lb 4 oz) with VF and microphone
Dimensions (w/h/d): 121 × 206 × 273 mm (4 7/8 × 8 1/8 × 10 3/4 inches)
(without projections)

<Note> DPR is equivalent to +6dB gain up.
18dB+DPR: Equivalent to +24dB
24dB+DRR: Equivalent to +30dB
Hyper Gain (30dB+DPR): Equivalent to +36dB



*Camera adaptor is optional

Dimensions



1 Production video cameras/camcorders

DSR-130

Digital Camcorder

•Combination of the DXC-D30 Digital Video Camera and the DSR-1 DVCAM Dockable Recorder, equivalent to one-piece camcorder •Compact and lightweight: 7.5 kg (16 lb 8 oz) including a viewfinder, microphone, lens, battery, tape and carrying handle •DSP (Digital Signal Processing) •Three 2/3-inch Power HAD™ CCDs for low smear level, high sensitivity and high S/N ratio •Superb picture quality of the DVCAM format •Playback capability of consumer DV recorded tapes (SP mode only) •Long recording time; up to 184 minutes with a standard cassette and 40 minutes with a mini cassette •ClipLink operation •TruEye™ process for faithful color reproduction •DynaLatitude™ •Skin Detail with auto detection of active area •Black halo-free, Clean Detail •Camera Setup File system •SetupNavi™ function for Camera Setup File storage •SetupLog™ function for automatic recording of camera setting data •Total Level Control System (TLCS) for automatically extended range of light control •EZ Focus and EZ mode for quick camera setup •Auto Tracing White Balance (ATW) function •Adjustable Black Stretch and Compress •Dual Zebra viewfinder indication of over exposure •Time code superimposed during playback •Edit Search function •Freeze Mix function



Specifications

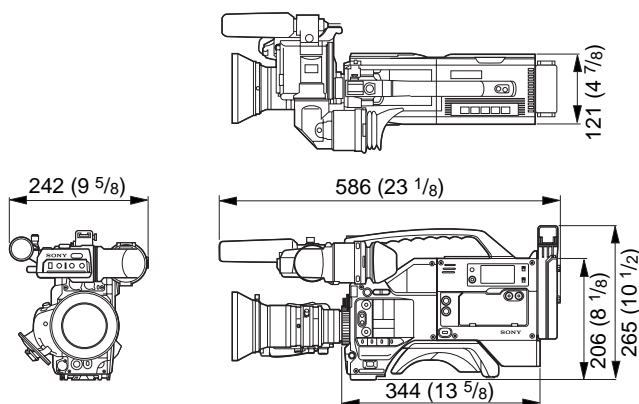
DSR-130 Camcorder

Power consumption: 24.8 W (with DXF-701WS Viewfinder)
 Mass: 7.5 kg (16 lb 8 oz) (incl. DXF-701WS viewfinder, microphone, VCL-918BY lens, NP-1B battery, videocassette, carrying handle)
 Operating time: 60 min.
 Dimensions (w/h/d): 121 × 206 × 344 mm (4 7/8 × 8 1/8 × 13 5/8 inches)

Component chart

	DSR-130F1	DSR-130K1	DSR-130L1
DXC-D30 Camera head	Yes	Yes	Yes
DSR-1 Recorder	Yes	Yes	Yes
Handle for DSR-130	Yes	Yes	Yes
DXF-701WS Viewfinder	Yes	Yes	Yes
External microphone	Yes	Yes	Yes
Shoulder step	Yes	Yes	Yes
VCT-U14 Tripod adaptor	Yes	Yes	Yes
VCL-918BY Zoom lens	Yes	Yes	Option
LC-421 Carrying case	Yes	Option	Option
RM-LG1 Logger Unit	Yes	Yes	Yes

Dimensions



Unit: mm (inches)

1 Production video cameras/camcorders

PVW-D30 series

Betacam SP camcorder

- Betacam SP Camcorder with digital signal processing camera: PVV-3 docked with DXC-D30 via the Pro 50-pin connector
- Status information and messages of the PVV-3 (time code, recording audio level, remaining battery power, remaining tape time, etc.) can be superimposed on the viewfinder
- Playback capability with VA-300
- Compact and light weight 8.3 kg (18 lb 5 oz) in operation
- Low power consumption: approx. 24.1 W
- Lightweight rugged magnesium diecast body (Camera part)
- Large carrying handle for enhanced transportability and easier handling in low angle

Specifications

PVW-D30 Camcorder

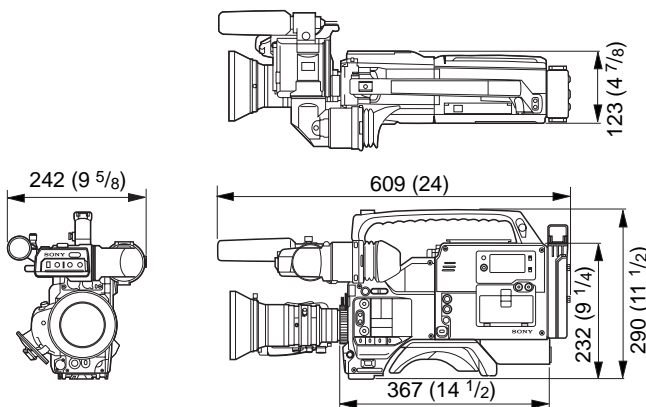
Power consumption: 24.1 W (with DXF-701WS Viewfinder)
 Mass: 8.3 kg (18 lb 5 oz) (incl. DXF-701WS viewfinder, microphone, VCL-918BY lens, NP-1B battery, videocassette, carrying handle)
 Operating time: 60 min.
 Dimensions (w/h/d): 123 × 232 × 367 mm
 (4 7/8 × 9 1/4 × 14 1/2 inches)

Component chart

	PVW-D30F	PVW-D30K	PVW-D30L
DXC-D30 Camera head	Yes	Yes	Yes
PVV-3 Recorder	Yes	Yes	Yes
Handle for PVW-D30	Yes	Yes	Yes
DXF-701WS Viewfinder	Yes	Yes	Yes
External microphone	Yes	Yes	Yes
Shoulder strap	Yes	Yes	Yes
VCT-U14 Tripod adaptor	Yes	Yes	Yes
VCL-918BY Zoom lens	Yes	Yes	Option
LC-421 Carrying case	Yes	Option	Option
RM-LG1 Logger Unit	Yes	Yes	Yes



Dimensions



Unit: mm (inches)

1 Production video cameras/camcorders

DSR-500WS

Digital Camcorder

•Highly mobile one-piece design •Compact and lightweight: 6.3 kg (13 lb 14.2 oz) including viewfinder, microphone, lens, battery and tape •Compact crew package with the LC-DS300SFT or the LC-DS500 Carrying Case •Low power consumption: Camera head consumes only 24 W. •DynaFit™ shoulder pad for comfortable molding to any shoulder •Selectable four built-in filters: 3200 K, 5600 K, 5600 K + 1/8, 5600 K + 1/64. •DSP (Digital Signal Processing) •Three 2/3-inch Power HAD WS™ CCDs for low smear level, high sensitivity and high S/N ratio •16:9 and 4:3 Switchable •Generates a 16:9 ID pulse automatically when shooting 16:9 images •Superb picture quality of the DVCAM format •Playback capability of consumer DV recorded tapes (SP mode only) •Long recording time; up to 184 minutes with a standard cassette and 40 minutes with a mini cassette •Digital output of i.LINK™ interface •ClipLink operation •TruEye™ process for faithful color reproduction •DynaLatitude™ •Skin Detail with auto detection of active area •SetupLog™ function for automatic recording of camera setting data •SetupNavi™ function for camera setup file storage •Pool feed operation in which the DSR-500WS can function as a recorder using the analogue composite signal from the distributor. (The optional DSBK-501 is required.) •Total Level Control System (TLCS) for automatic light control •EZ Focus and EZ mode for quick camera setup •Auto Tracing White Balance (ATW) function •Adjustable Black Stretch and Compress •Dual Zebra viewfinder indication of over exposure •Video light connection for Anton Bauer® Ultra Light 2 •Menu control by Jog Dial operation •Switch guard for preventing miss-operations. •Time code superimposed during playback •Edit Search function •Freeze Mix function •26-pin VTR interface capability

Specifications

GENERAL

Power requirements: DC 7.2 V(Battery operation), DC 8.4 V(AC adaptor)
 Power consumption: 11.6 W (during camera recording)
 Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)
 Storage temperature: -20 °C to 60 °C (-4°F to 140 °F)
 Operating humidity: Less than 85%
 Storage humidity: Less than 90%
 Tape speed: 28.221 mm/s
 Recording/Playback time: Standard size: 184 min. w/PDV184ME
 Mini size: 40 min. w/PDVM40ME
 Fast forward/Rewind time: Standard size: Approx. 12 min. w/PDV184ME
 Mini size: Approx. 3 min. w/PDVM40ME
 Continuous recording time: Approx. 70 min. w/BP-L40 battery
 140 min. w/BP-L60A battery
 230 min. w/BP-L90A battery
 Mass: Approx. 3.6 kg (7 lb 15.0 oz) camera head only
 Approx. 4.4 kg (9 lb 11.2 oz) with VF and microphone
 Approx. 5.8 kg (12 lb 12.6 oz) with VF, microphone and lens
 Approx. 6.3 kg (13 lb 14.2 oz) with VF, microphone, lens, battery (BP-L40) and videocassette tape
 Dimensions:(w/h/d): 121 × 192 × 280 mm
 (4 7/8 × 7 5/8 × 11 1/8 inches) (without projections)
 242 × 247 × 547 mm
 (9 5/8 × 9 3/4 × 21 5/8 inches) (with projections)

CAMERA PART

Image device: 3-chip 2/3-inch, Interline-Transfer CCD
 Optics: F1.4 medium index prism system
 Effective picture elements: 980 x 582 (H x V)
 Total picture elements: 1038 x 594 (H x V)
 Sensing area: 9.6 mm x 5.4 mm
 Built-in filters: 1: 3200 K/3000 K
 2: 5600 K+1/8 ND
 3: 5600 K
 4: 5600 K+1/64 ND
 Lens mount: Sony 2/3-inch bayonet mount
 Signal system: PAL color system
 Scanning system: 2:1 interlaced, 625 lines, 50 fields/s
 Horizontal frequency: 15.625 kHz
 Vertical frequency: 50 Hz
 Sync system: Internal and external with the VBS or BS signal
 Horizontal resolution: 16:9 mode : 700TV lines
 4:3 mode : 700TV lines
 Vertical resolution: 480TV lines (w/o EVS), 530TV lines (w/EVS)



*Optional items are included

Minimum illumination: 0.5 lx with F1.4, Hyper gain (30 dB+DPR)*
 0.8 lx with F1.8, Hyper gain (30 dB+DPR)*
 Sensitivity: F11 at 2000 lx (3200 K, 89.9% reflectance) (typical)
 Gain selection: -3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 18dB, 18 dB + DPR, 24 dB, 24 dB+DPR, Hyper Gain (30 dB + DPR)*
 Shutter speed selection: OFF, 1/60, 1/250, 1/500, 1/1000, 1/2000 sec
 Clear scan selection: 50.3 to 201.4 Hz
 Signal-to-noise ratio: 61 dB (typical)
 Registration: 0.05% (all zones, without lens)
 Geometric distortion: Below measurable level

VTR PART

VIDEO PERFORMANCE

Bandwidth: Luminance: 25 Hz to 5.5 MHz + 1.0/-2.0 dB
 Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB
 S/N ratio (luminance): More than 55 dB
 K-factor (K2T, KPb): Less than 2.0%
 Y/C delay: Less than 30 nsec

AUDIO PERFORMANCE

Frequency response: 48 kHz: 20 Hz to 20 kHz +0.5/-1.0 dB
 32 kHz: 20 Hz to 14.5 kHz +0.5/-1.0 dB
 Dynamic range: More than 80 dB
 Distortion (THD): Less than 0.08% (1 kHz reference level, 48 kHz)

INPUT/OUTPUT connectors

Signal inputs:

GENLOCK VIDEO IN: BNC, 1.0 Vp-p, 75 Ω
 TC IN: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ
 EXT AUDIO CH-1/2: XLR 3-pin x 2 Female, -60 dBu, 3 kΩ/+4 dBu, 10 kΩ
 MIC IN: XLR 3-pin Female
 ANALOGUE VIDEO IN: BNC, 1.0 Vp-p, 75 Ω
 (with DSBK-501P optional board installed)

Signal outputs:

VIDEO OUT: BNC, 1.0 Vp-p, sync negative, 75 Ω, 26-pin Male
 VBS: 1.0 Vp-p, sync negative
 Y/R-Y/B-Y: Y: 1.0 Vp-p, sync negative
 R-Y/B-Y: 525 mVp-p
 Y: 1.0 Vp-p, sync negative
 C: 300 mVp-p (burst level)
 i.LINK, 6-pin IEEE1394-based
 MONITOR OUT: BNC, 1.0 Vp-p, sync negative, 75 Ω
 TC OUT: BNC, 1.0 Vp-p, 75 Ω
 AUDIO CH-1/2: Phono, -10 dBu, 47 kΩ
 S-VIDEO: DIN 4-pin, 1.0 Vp-p, 75 Ω

Others:

DC IN: XLR 4-pin, Male
 DC OUT: 4-pin, Female
 BATTERY TERMINAL: 5-pin
 EARPHONE: Mini-jack
 LIGHT OUT: 2-pin Female
 WRR OUT: 7-pin
 LENS: 12-pin
 VF: 20-pin
 REMOTE1: Stereo mini
 REMOTE2: 10-pin

<Notes>

* DPR is equivalent to +6 dB gain up.
 18 dB+DPR: Equivalent to +24 dB gain up
 24 dB+DRR: Equivalent to +30 dB gain up
 Hyper Gain (30 dB+DPR): Equivalent to +36 dB gain up
 * The specifications for "Video/Audio performance" were measured by playing back material on the DSR-85P (via analogue component out) that had been recorded on the DSR-500WSP.
 * 0 dBu = 0.775 Vrms

1 Production video cameras/camcorders

DSR-300

Digital Camcorder

- Highly mobile one-piece design •Compact and lightweight: 5.7 kg (12 lb 9 oz) including viewfinder, microphone, lens, battery and tape •Compact crew package with the LC-300SFT Soft Carrying Case •DynaFit™ shoulder pad for comfortable molding to any shoulder •DSP (Digital Signal Processing) •Three 1/2-inch Power HAD™ CCDs for low smear level, high sensitivity and high S/N ratio •Superb picture quality of the DVCAM format •Playback capability of consumer DV recorded tapes (SP mode only) •Long recording time; up to 184 minutes with a standard cassette and 40 minutes with a mini cassette •ClipLink operation •TruEye™ process for faithful color reproduction •DynaLatitude™ •Skin Detail with auto detection of active area •SetupLog™ function for automatic recording of camera setting data •Total Level Control System (TLCS) for automatically extended range of light control •EZ Focus and EZ mode for quick camera setup •Auto Tracing White Balance (ATW) function •Adjustable Black Stretch and Compress •Dual Zebra viewfinder indication of over exposure •Video light connection for Anton Bauer® Ultra Light 2 •Menu control by Jog Dial operation •Time code superimposed during playback •Edit Search function •Freeze Mix function •26-pin VTR interface capability

DSR-300 Specifications

Power requirements: DC 12 V (11 to 17 V)
 Power consumption: 20 W (w/o VF), 22.1 W (w VF)
 Operating temperature: 0°C to 40°C (32°F to 104°F)
 Storage temperature: -20°C to 60°C (-4°F to 140°F)
 Operating humidity: Less than 85%
 Storage humidity: Less than 90%
 Tape speed: 28.193 mm/s
 Recording/Playback time:
 Standard size: 184 min. PDV184ME
 Mini size: 40 min. PDVM40ME
 Fast forward/Rewind time:
 Standard size: Approx. 12 min. PDV184ME
 Mini size: Approx. 3 min. PDVM40ME
 Continuous recording time:
 Approx. 80 min. BP-L40, Approx. 180 min.
 BP-L60A, Approx. 290 min. BP-L90A
 Mass:
 Approx. 3.3 kg (7 lb 4 oz) for camera head only
 Approx. 4.1 kg (9 lb 1 oz) with VF and microphone
 Approx. 5.2 kg (11 lb 7 oz) with VF, microphone and lens
 Approx. 5.7 kg (12 lb 9 oz) with VF, microphone, lens, battery (BP-L40) and videocassette tape
 Dimensions (w/h/d):
 121 × 192 × 270 mm (4 7/8 × 7 5/8 × 10 3/4 inches) (without projections)
 242 × 247 × 534 mm (9 5/8 × 9 3/4 × 21 1/8 inches) (with projections)

CAMERA PART

Image device: 3-chip 1/2-inch, Interline Transfer CCD
 Optics: F1.4 medium index prism system
 Effective picture elements:
 768 × 494 (H × V)
 Total picture elements: 811 × 508 (H × V)
 Sensing area:
 6.4 mm × 4.8 mm (equivalent to a 1/2-inch pickup tube)
 Built-in filters:
 1: 3200 K/3000 K (Switchable)
 2: 5600 K+1/8 ND
 3: 5600 K
 4: 5600 K+1/64 ND
 Lens mount: Sony 1/2-inch Bayonet mount
 Signal system: NTSC color system
 Scanning system: 2:1 interlaced, 525 lines, 60 fields/sec.
 Horizontal frequency: 15.625 kHz
 Vertical frequency: 50 Hz
 Sync system: Internal and external with the VBS or BS signal
 Horizontal resolution: 800 TV lines
 Vertical resolution: 400 TV lines (w/o EVS), 450 TV lines (w/EVS)
 Minimum illumination:
 0.5 lx with F1.4, Hyper gain (30 dB+ DPR)
 0.8 lx with F1.8, Hyper gain (30 dB+ DPR)
 Sensitivity: F 11 at 2000 lx (3200 K, 89.9% reflectance) (typical)



*Optional items are included

Gain selection: -3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 18 dB, 18 dB+ DPR, 24 dB, 24 dB+ DPR, Hyper Gain (30 dB+ DPR)
 Shutter speed selection: OFF, 1/100, 1/250, 1/500, 1/1000, 1/2000 sec
 Clear scan selection: 60.4 to 200.3 Hz
 Signal-to-noise ratio: 62 dB (typical)
 Registration: 0.05% (all zones, without lens)
 Geometric distortion: Below measurable level

VTR PART

VIDEO PERFORMANCE

Bandwidth: Luminance: 25 Hz to 5.5 MHz +1.0/-2.0 dB
 Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB
 S/N ratio: More than 55 dB
 K-factor(K2T, KPb): Less than 2.0%
 Y/C delay: Less than 30 nsec

AUDIO PERFORMANCE

Frequency response: 48 kHz: 20 Hz to 20 kHz +0.5/-1.0 dB
 32 kHz: 20 Hz to 14.5 kHz +0.5/-1.0 dB
 Dynamic range: More than 80 dB
 Distortion (THD): Less than 0.08% (1 kHz reference level, 48 kHz)

INPUT/OUTPUT connectors

Signal inputs:
 GENLOCK VIDEO IN: BNC, 1.0 Vp-p, 75 Ω
 TC IN: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ
 EXT AUDIO CH-1/2: XLR 3-pin (2) Female, -60 dBu, 3 kΩ/+4 dBu, 10 kΩ
 MIC IN: XLR 3-pin Female
 Signal outputs:
 VIDEO OUT: BNC, 1.0 Vp-p, sync negative, 75 Ω
 26-pin connector:
 VBS: 1.0 Vp-p, sync negative
 Y/R-Y/B-Y: 1.0 Vp-p, sync negative
 R-Y/B-Y: 700 mVp-p
 Y/C: Y: 1.0 Vp-p, sync negative
 C: 286 mVp-p (burst level)
 MONITOR OUT: BNC, 1.0 Vp-p, sync negative, 75 Ω
 TC OUT: BNC, 1.0 Vp-p, 75 Ω
 AUDIO CH-1/2: RCA pin, -10 dBu, 47 kΩ
 S-VIDEO: DIN 4-pin, 1 Vp-p, 75 Ω
 Other:
 DC IN: XLR 4-pin, Male
 DC OUT: 4-pin, Female
 BATTERY TERMINAL:
 5-pin
 EARPHONE: Mini-jack
 LIGHT OUT: 2-pin Female
 WRR OUT: 7-pin
 LENS: 14-pin hot-shoe type or 12-pin
 VF: 20-pin
 REMOTE1: Stereo mini
 REMOTE2: 10-pin

Notes: *DPR is equivalent to +6 dB gain up.
 18 dB+ DPR: Equivalent to +24 dB
 24 dB+ DPR: Equivalent to +30 dB
 Hyper Gain (30 dB+ DPR): Equivalent to +36 dB

1 Production video cameras/camcorders

DSR-200A

Digital Camcorder

•Compact and lightweight: 4.7 kg (10 lb 8 oz) including tape and battery holder with three battery packs •DSP (Digital Signal Processing) •Three 1/3-inch CCDs for accuracy of color reproduction •Superb picture quality of the DVCAM format •Playback capability of consumer DV recorded tapes (SP mode only) •Long recording time; up to 184 minutes with a standard cassette* •Super SteadyShot™ function for stable picture shooting without sacrificing picture quality •Time/date data superimposition on output pictures •Easy-to-use viewfinder, with high horizontal resolution •Photo mode and frame interpolation for recording clear frame picture for seven seconds •Audio dubbing capability (32 kHz/12-bit only) •Time code capability •16:9 aspect ratio switchable •i.LINK (DV In/Out) interface based on the IEEE1394 standard •LANC interface for simple editing with a LANC-based recorder or editing system •RMT-806 Remote Controller (supplied) for control of basic functions

* The DSR-200A accepts only standard DVCAM and DV cassettes.

Supplied accessories:	Wireless Remote Commander and R6 batteries (2) RMT-807 (for European area) RMT-806 (for PAL areas except Europe) AV stereo cable S cable Lens cap Shoulder pad Side pad Operation manual Lithium battery CR2025
Optional accessories:	ACC KIT-201 Accessory kit AC-V900 AC adaptor/charger(with DK-715) NP-F950 Rechargeable battery pack NPA-10000 Battery adaptor VMC-IL4415 i.LINK cable VMC-IL4435 i.LINK cable VMC-IL4615 i.LINK cable VMC-IL4635 i.LINK cable

Specifications

GENERAL

Power requirement:	DC 7.2 V (Battery operation), DC 8.4 V (AC adaptor)
Power consumption:	11.6 W (during camera recording)
Operating temperature:	0 °C to 40 °C (32 °F to 104 °F)
Storage temperature:	-20 °C to 60 °C (-4 °F to 140 °F)
Dimensions (w x h x d):	216 × 237 × 474 mm (8 5/8 × 9 3/8 × 18 3/4 inches)
Mass:	Approx. 3.6 kg (7 lb 15 oz) (without batteries and tape) Approx. 4.7 kg (10 lb 8 oz) (with a tape and three NP-F950 in NPA-10000/B)

LENS PART

Zoom:	10:1 variable speed zoom lens(f = 5.9 to 59 mm) (20 x Digital Zoom)
Filter diameter:	52 mm
Iris:	Auto/Manual (F1.6 to 11) and Close

CAMERA PART

Image device:	3-chip 1/3-inch, Interline-Transfer CCD
Effective picture elements:	440,000 pixels, 768 × 494 (H × V)
Total picture elements:	470,000 pixels, 811 × 508 (H × V)
Signal system:	EIA standard, NTSC color system
Scanning system:	2:1 interlaced, 525 lines, 60 fields/sec.
Gain selection:	Auto/Manual (-3, 0, 3, 6, 9, 12, 15, 18 dB)
Shutter speed selection:	Auto/Manual (1/4, 1/8, 1/15, 1/30, 1/60, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 sec.)
White balance:	ATW/One-push auto/5800 K/3200 K
Minimum illumination:	3 lx
Recommended illumination:	More than 100 lx
Viewfinder:	1-inch black and white CRT
Built-in microphone:	One-point stereo-type electret condenser microphone directivity selectable (0°/90°/120°)
Built-in speaker:	Dynamic speaker



VTR PART

Tape speed:	Approx. 28.2 mm/s.(DVCAM mode)
Maximum recording time:	184 minutes (with PDV-184ME)
Video signal:	EIA standard, NTSC color system
Audio signal:	REC: 48 kHz/16-bit, 32 kHz/12-bit, PB:48 kHz/16-bit, 32 kHz/12-bit, 32 kHz/16-bit, 44.1 kHz/16-bit

INPUT/OUTPUT connectors

Audio input:	XLR 3-pin (2) (MIC/LINE selectable) Stereo mini jack (1)
Video outputs:	Composite: BNC (1), RCA pin jack (1), 1.0Vp-p, 75 Ω Sync negative S-Video: 4-pin mini-DIN connector (1) Y: 1.0 Vp-p, 75 Ω unbalanced C: 300 mVp-p (subcarrier burst), 75 Ω, unbalanced RCA PIN jack (2) (L, R)
Audio output:	RCA PIN jack (2) (L, R)
Digital input/output:	i.LINK(DV IN/OUT), IEEE1394-based, 4-pin (1)
LANC:	Stereo mini-mini jack (1)
Headphone:	Stereo mini jack (1)
RFU DC output:	Special mini jack (1) (DC 5 V)
External DC input:	4-pin for DK-715 cable
Viewfinder interface:	8-pin connector

1 Production video cameras/camcorders

DSR-PD100A

Digital Camcorder

- Compact and handy: 1 kg (2.2 lb) with a battery and a tape
- Superb picture quality of the DVCAM format
- 1/4-inch 3CCDs: progressive/interlace scan switchable
- Still image recording on both tape or removable media, such as Memory Stick™
- Super SteadyShot™ function with new optical system
- Extreme close-up shots with x48 digital and x12 optical zoom
- Manual Control and Full Range Auto modes
- Switchable 4:3 and 16:9 recording modes
- Playback capability of consumer DV recorded tapes (SP mode only)
- i.LINK (DV In/Out) interface based on the IEEE1394 standard
- 16-bit/12-bit PCM audio stereo
- Audio dubbing capability
- Audio lock mode
- 3.5-inch LCD screen which turns 90 degrees horizontally and 270 degrees vertically.
- Precision color viewfinder
- Built-in Memory card slot
- InfoLITHIUM™ system: Lithium-ion battery power system which shows the amount of power remaining in the battery, with an accuracy of one minute



*Optional items are included

Supplied Accessories: AC-L10 AC Adaptor
NP-F330 Rechargeable Lithium-ion Battery Pack
RMT-811 Remote Commander and R6 batteries (2)
MSA-4A "Memory Stick"
MSAC-PC1 "Memory Stick"/PC Card Adaptor
Special Stereo AV Cable
XLR Adaptor
Wide Conversion Lens

Optional accessories: Lens Cap, Lens Hood, Carrying Belt
ECM-670 Professional Microphone
CAC-12 Microphone Holder
EC-0.3C2/EC-0.5C2 Microphone Cable
NP-F950/B InfoLITHIUM Rechargeable Battery Pack
NP-F750 InfoLITHIUM Rechargeable Battery Pack
NP-F730H InfoLITHIUM Rechargeable Battery Pack
NP-F550 InfoLITHIUM Rechargeable Battery Pack
VMC-IL4415 i.LINK Cable
VMC-IL4435 i.LINK Cable
VMC-IL4615 i.LINK Cable
VMC-IL4635 i.LINK Cable
MSA-4A/8A/16A/32A/64A "Memory Stick" IC recording media

Specifications

GENERAL

Power requirements: DC 7.2 V (Battery), DC 8.4 V (AC Adaptor)
Power consumption: 4.3 W using the viewfinder/5.3 W using the LCD
Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)
Storage temperature: -20 °C to 60 °C (-4 °F to 140 °F)
Dimensions (w x h x d): 93 x 112 x 193.5 mm
(3 3/4 x 4 1/2 x 7 5/8 inches)
Mass: Approx. 900 g (1 lb 15 oz)

LENS PART

Zoom: 12:1 variable speed (1.88-26.5 sec) zoom lens,
f = 4.3 to 51.6 mm, F1.6 to 2.8;
Filter diameter: 52 mm
Focus: Auto/Manual (ring)/Infinity

CAMERA PART

Imaging device: 3-chip 1/4-inch, Interline-Transfer CCD
Effective picture elements: 340,000 pixels
Total picture elements: 380,000 pixels
Signal system: EIA standard, NTSC color system
Scanning system: Progressive/Interlace
Horizontal resolution: 500 TV lines
Shutter speed: 1/4 to 1/10000 seconds
White balance: ATW/One-push/Outdoor/Indoor
Exposure: Auto/Manual (Exposure dial, Program AE)
Minimum illumination: 4 lx
Viewfinder: 180,000 dot Color LCD, Zebra pattern
Built-in microphone: Stereo electret condenser microphone
Built-in speaker: Dynamic speaker
LCD: TFT active matrix, 3.5-inch
184,580 dots (839 x 220)

VTR PART


Tape speed: Approx. 28.2 mm/s (DVCAM mode)
Maximum recording time: 40 minutes (with PDVM-40ME)
Video signal: EIA standard, NTSC color system
Audio signal: REC: 48 kHz/16-bit, 32 kHz/12-bit
PB: 48 kHz/16-bit, 32 kHz/12-bit
32 kHz/16-bit, 44.1 kHz/16-bit

INPUT/OUTPUT connectors

Audio/Video input/output: Special AV mini
(converts to RCA pin jack) (1)
Video input/output: S-Video IN/OUT: Mini-DIN 4 pin (1)
Stereo mini (1)
Mic input: Stereo mini (1)
Digital input/output: i.LINK (DV IN/OUT), IEEE1394-based, 4-pin (1)
LANC: Stereo mini-mini jack (1)
Headphone: Stereo mini jack (1)
External DC input: 8.4V from AC-L10 AC adaptor

Memory Card Slot

PC Card Standard ATA specifications Type II
Power requirement: 3.3/5 V
Capacity: 2 MB to 64* MB
(*When formatted by DSR-PD100AP)
Recording signals: Camera signal, VTR signal
Image size: VGA (640x480)
Image compression: JPEG

**"Memory Stick" and  are trademarks of Sony Corporation.

1 Production video cameras/camcorders

DSR-PD1

Digital Camcorder

•Compact and handy: 520 g (1.2 lb) •1/3-inch CCD •Superb picture quality of the DVCAM format •Playback capability of consumer DV recorded tapes (SP mode only) •40 minutes recording time with a mini cassette* •Super SteadyShot™ function for stable picture shooting without sacrificing picture quality •Extreme close-up shots with x20 digital and x10 optical zoom •2 1/2-inch color LCD advanced viewfinder •Color viewfinder •InfoLITHIUM™ system; Lithium-ion battery power system which shows the amount of power remaining in the battery, with an accuracy of one minute •Photo mode for high quality still images •A/V digital fade-to-black/silence function (Fade in from black/silence) •Audio dubbing capability (32 kHz/12-bit only) •Time code capability •i.LINK (DV In/Out) interface based on the IEEE1394 standard •LANC interface for simple editing with a LANC-based recorder or editing system

* The DSR-PD1 accepts only mini DVCAM and DV cassettes.

Supplied accessories:	RMT-807 Wireless Remote Control (1) A/V Cable-special (1) Vanadium-Lithium Battery (Built-in) (1) AA Batteries (2)
Optional accessories:	ACC KIT-PD1P Accessory Kit AC-V100/B AC adaptor/charger (with DK626) NP-F220/B InfoLITHIUM rechargeable battery pack(1400 mAh) VMC-LM7 LANC/Microphone Adaptor VMC-IL4415 i.LINK Cable VMC-IL4435 i.LINK Cable VMC-IL4615 i.LINK Cable VMC-IL4635 i.LINK Cable

Specifications

GENERAL

Power requirements:	DC 7.2 V (Battery operation), DC 8.4 V (AC adaptor)
Power consumption:	6.0W (LCD on), 5.0W (LCD off)
Operating temperature:	0 °C to 40 °C (32 °F to 104 °F)
Storage temperature:	-20 °C to 60 °C (-4 °F to 140 °F)
Dimensions (w x h x d):	59 × 129 × 118 mm (2 3/8 × 5 1/8 × 4 5/8 inches)
Mass:	520 g (1.1 lb) (Without battery and tape)

LENS PART

Zoom:	10:1 variable speed zoom lens (1.0 to 29 seconds at stand -by, 1.5 to 29 seconds at recording) f = 4.0 to 40 mm; F1.8 to 2.6
Filter diameter:	37 mm
Focus:	Auto/Manual/Infinity

CAMERA PART

Imaging device:	1/3-inch, Interline-Transfer CCD
Effective picture elements:	400,000 pixels
Total picture elements:	680,000 pixels
Signal system:	EIA standard, NTSC color system
Scanning system:	Interlace
Shutter speed:	1/60 to 1/4,000 second (In AE mode)
White balance:	Auto/Hold/Outdoor/Indoor
Exposure:	Auto
Minimum illumination:	3 lux at F1.8
Viewfinder:	0.55-inch 113000 dots color viewfinder
Built-in microphone:	Stereo-type electret condenser microphone
Built-in speaker:	Piezo-electric-speaker
LCD:	TFT active matrix, 2.5-inch 84,485 dots (384 x 220)

VTR PART

Tape speed:	Approx. 28.2 mm/s (DVCAM mode)
Maximum recording time:	40 min. (PDVM-40ME)
Maximum recording time with LCD:	95 min. (NP-F220/B, Fully charged)
Video signal:	EIA standard, NTSC color system
Audio signal:	REC: 48 kHz/16-bit, 32 kHz/12-bit PB: 48 kHz/16-bit, 32 kHz/12-bit 32 kHz/16-bit, 44.1 kHz/16-bit



INPUT/OUTPUT connectors

Audio/Video output:	Special AV mini (converts to RCA pin jack) (1)
Video input/output:	S-Video IN/OUT: Mini-DIN 4 pin (1)
Headphone:	Stereo mini jack(1)
LANC:	Available through 26-pin multi connector (using optional, VMC-LM7)
Mic input:	Available through 26-pin multi connector (using optional, VMC-LM7)

1 Production video cameras/camcorders

UVW-100B

Betacam SP One-Piece Camcorder

- High performance one-piece camcorder
- Incorporates three 1/2-inch IT Power HAD sensors
- High quality Betacam SP component recording format
- High sensitivity of F11.0 at 2000 lx, high signal to noise ratio of 60 dB, high horizontal resolution of 700TV lines
- Compact and light weight approx. 7.3 kg including the viewfinder, battery, cassette and lens
- Low power consumption of 20 W
- More than 30 minutes of recording time using the S-size metal Betacam SP cassette
- Programmable gain up (0 to 18 dB)
- ATW (Auto Tracing White Balance)
- Total Level Control System provides optimum adjustments for any lighting conditions: AGC (Automatic Gain Control), CCD AE (Auto Exposure) and Intelligent Auto Iris
- Built-in safety zone and center marker generator in the viewfinder
- Two memories for white balance value
- x14 zoom lens: VCL-714BX (supplied with the UVW-100BF/BK)
- DXF-601 viewfinder
- 1/2-inch bayonet mount
- Variable electronic shutter
- Clear Scan function (59.9 to 200.3 Hz)
- Camera gen-lock and Time Code gen-lock capability
- The 26-pin interface provides component, composite and Y/C video signal to an external VTR for simultaneous recording
- Built-in time code generator and reader
- Real Time/Date recording function
- Two longitudinal audio channels with the Dolby C-Type NR (Noise Reduction) system
- Recording review and back space editing function
- Color playback in the field with the optional VA-300 Playback Adaptor
- 8-digit LCD display
- Bargraph meter for audio level and battery status
- Built-in earspeaker
- External microphone power supply (+48 V, CH-1/2)

Supplied accessories:

- Tripod adaptor
- External Microphone
- Shoulder strap
- Viewfinder
- x14 zoom lens (UVW-100BF/BK)
- Viewfinder (UVW-100BF/BK/BL)
- Carrying case (UVW-100BF)
- Operational manual

Optional accessories:

- Battery pack NP-1B, BP-90A
- Battery charger BC-1WD, BC-410
- Battery adaptor DC-520, DC-500
- AC adaptor AC-550
- AC power adaptor CMA-8A
- Playback adaptor VA-300
- Remote controller RM-81
- Carrying case LC-421
- Rain cover LCR-1
- 26/26-pin cable CCZ-A cable
- 14/26-pin cable CCZQ-A cable
- Tripod adaptor VCT-U14

Specifications

General

Type: One-piece camcorder
 Power requirements: DC 12 V ± 5.0 V
 Power consumption: 20 W (at 12 V, without viewfinder)
 Operating temperature: 0 to 40°C (32 to 104°F)
 Storage temperature: -20 to 60°C (-4 to 140°F)
 Humidity: Less than 85% (relative humidity)
 Mass: 7.3 kg (16.2 oz) (fully equipped with VF/lens/battery/MIC)
 Tape speed: 118.6 mm/s
 Playback/recording time: More than 30 min with UVWT-30MA
 Fast forward time: Less than 7.5 min with UVWT-30MA
 Rewind time: Less than 5.5 min with UVWT-30MA

Camera Head

Image device: Three 1/2-inch IT CCD sensors
 Optics: F1.4 medium index prism system
 Picture element: Total: 811 x 508 (H x V)
 Effective: 768 x 492 (H x V)
 Built-in filters: 1: 3200K
 2: 5600K + 1/16ND
 3: 5600K
 Lens mount: 1/2-inch bayonet
 Video signal system: EIA standard (monochrome)
 NTSC (color)
 Horizontal resolution: 700TV lines
 Minimum illumination: 4.0 lx with F1.4 +18dB
 Sensitivity: F11.0 at 2000 lx
 Gain selection: 0 dB
 MID (1 dB to 17 dB in 1 dB steps)
 HIGH (2 dB to 18 dB in 1 dB steps)
 (MID < HIGH)
 0 dB to 18 dB variable (AGC)
 Shutter speed selection: OFF, 1/100, 1/250, 1/500, 1/1000, 1/2000s
 Clear Scan range: 59.9 Hz to 200.3 Hz
 S/N ratio: 60 dB



Registration: 0.05% (all zone, without lens)
 Geometric distortion: Below measurable level
 Camera: VBS: 1.0 Vp-p, sync negative
 26-pin connector: VBS: 1.0 Vp-p, sync negative
 Y: 1.0 Vp-p, 75 Ω, sync negative
 R-Y/B-Y: 0.7 Vp-p
 Y/C: {Y}: 1.0Vp-p, 75 Ω, sync negative
 {C}: 0.286Vp-p (burst level)

VTR Portion Video

Recording system: Rotary 4-head helical scan system
 R-Y/B-Y: FM recording (CTDM)
 Y: FM recording
 Time code IN (BNC): 0.5 V to 5 Vp-p, 10 kΩ
 Time code OUT (BNC): 1.0 Vp-p, 75 Ω

Audio

Input: MIC: -60 dBu, 3 kΩ, balanced
 Line: +4 dBu, 10 kΩ, balanced

Video performance

Bandwidth: Y: 30 Hz to 4.0 MHz ± 1.0 dB
 R-Y/B-Y: 30 Hz to 1.5 MHz ± 1.0 dB
 S/N ratio: Y (Component IN/OUT): More than 49 dB
 R-Y/B-Y: More than 47 dB
 Distortion: K-factor: Less than 3%
 Y/C delay: Less than 30 ns

Audio performance

Frequency response: 50 Hz to 15 kHz ± 2.0 dB
 S/N ratio (at 3% distortion level): More than 70 dB
 Distortion T.H.D. (at 1 kHz reference level): Less than 1.5%
 Wow and flutter: Less than 0.18% rms

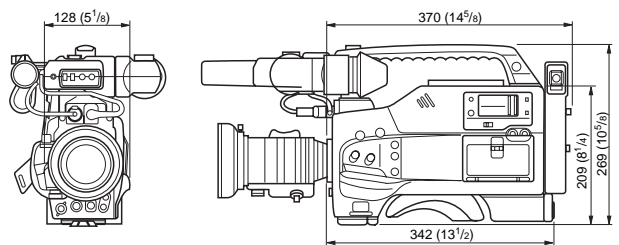
Connectors

Playback adaptor: 20-pin
 External VTR Connector: 26-pin
 Camera Video OUT: BNC (x2)
 Camera GEN LOCK IN: BNC
 Camera MIC IN: XLR (3-pin) with 48V OUT
 Audio IN: XLR (x2) (3-pin) with 48V OUT selectable
 Headphone OUT: Stereo mini jack
 Remote: Stereo mini jack
 Lens: 12-pin (for 2/3-inch lens)
 DC IN: XLR 4-pin (for the optional CMA-8A)
 Time code IN: BNC
 Time code OUT: BNC

Component Chart

Composition	Model	UVW-100BF	UVW-100BK	UVW100BL
Camcorder UVW-100B	Supplied	Supplied	Supplied	Supplied
Extrenal Microphone	Supplied	Supplied	Supplied	Supplied
Shoulder Strap	Supplied	Supplied	Supplied	Supplied
Tripod Adpter VCT-U14	Supplied	Supplied	Supplied	Supplied
Viewfinder DXF-601	Supplied	Supplied	Supplied	Supplied
Zoom Lens VCL-714BX	Supplied	Supplied	Option	Option
Carrying Case LC-421	Supplied	Option	Option	Option

Dimensions



Unit: mm (inch)

1 Production video cameras/camcorders

DXC-327B series

3-chip CCD color video camera

•Directly dockable not only with current analog VTR's/CA's but also with Digital Recorder (DSR-1) •High sensitivity of F9.0 at 2000 lx and a low smear level (1/10 of the conventional camera) given by three Sony 1/2-inch IT Power HAD (Hole Accumulated Diode) sensors •700TV lines of horizontal luminance resolution thanks to the high density CCD chips (380,000 effective picture elements) and Sony's original spatial offset technology •The Power HAD sensor structure in combination with advanced electronic circuitry allows an excellent S/N ratio of •Electronic shutter equipped •2-line image enhancer for crisp image. •Modular design allows choice of combo stand-alone or multi-camera use •Can be combined with the DSR-1 DVCAM Digital Recorder, allowing simple ClipLink function •Can be docked directly with the PVV-1A/3 for high quality component acquisition •Can be combined with S-VHS recorders from Panasonic or JVC via the CA-512 or CA-513 Camera Adaptor •When combined with CA-537, 26-pin connector on camera adaptor provides signal output in Y/R-Y/B-Y, VBS, Y/C and RGB forms for connection with various equipment •The DXF-601: Diecast aluminum body, 600TV lines of horizontal resolution, the large eye cup for easy viewing, external TALLY and a new diopter mechanism for easier diopter adjustment •Compact size, lightweight, and low power consumption •VCL-714BX cableless 14 x zoom lens •Convenient built-in microphone •Safety Zone and Center Marker indications in viewfinder •Built-in character generator can generate letters and numbers for titles and dates •5 step auto iris override (+1F stop/+0.5F stop/Preset/-0.5F stop/-1.0F stop) •Convenient gain-up function (0/+9/+18dB) •Zebra video level indication •Two memory white balance system •ABL (Automatic Black Level) function •RM-M7G remote connector on camera head for remote control in any configuration •Extended system versatility with optional CA-325A/325B Camera Adaptors, RM-M7G Remote Control Unit, and CCU-M7/M5



*Camera adaptor is optional

Specifications

General

Image device: 1/2-inch Interline Transfer CCD (×3),
768 (H) x 494 (V) effective picture elements

Electronic viewfinder: 1.5-inch monochrome (except DXC-327BH)

Lens: F1.4, 7.5 to 90mm zoom lens with auto iris/macro mechanism (DXC-327BF/327BK)

Lens mount: Bayonet-mount

Video signal system: NTSC standard

Horizontal resolution: 700TV lines

Minimum illumination: 6.0 lx with F1.4, +18dB

Sensitivity: F9.0 at 2000 lx

Sync system: Internal or external selectable

S/N ratio: 63 dB

Power requirements: DC 12V

Power consumption: 8.0W (without VF/CA-537P)

Operating temperature: -5 to 45°C (23 to 113°F)

Mass: 2.0 kg (4 lb 6 oz, for camera head only)
3.3 kg (7 lb 4 oz, with the CA-537)

Inputs/Outputs

VTR/CCU/CMA: Sony Z-type, 26-pin

VIDEO OUT: BNC-type

GENLOCK: BNC-type

MIC IN: XLR-type, 3-pin

LENS: Hot-shoe type or 6-pin (for 2/3-inch lens)

REMOTE: 10-pin

VF: DIN 8-pin

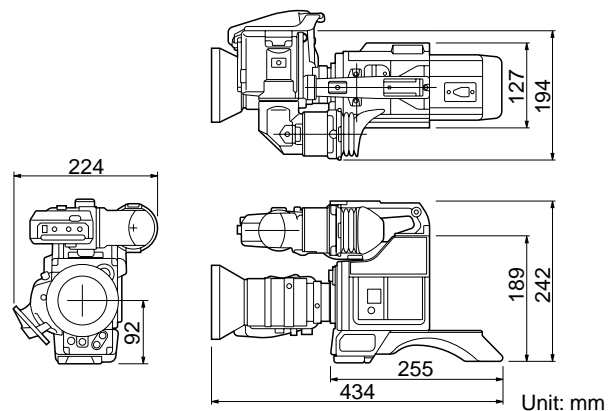
DC IN: XLR-type, 4-pin

EARPHONE: mini jack

INTERCOM: mini intercom jack

	DXC-327BF	DXC-327BK	DXC-327BL	DXC-327BH
Camera head DXC-327B	Yes	Yes	Yes	Yes
Tripod adaptor VCT-U14	Yes	Yes	Yes	Option
Viewfinder DXF-601	Yes	Yes	Yes	Option
Zoom lens VCL-714BX	Yes	Yes	Option	Option
Carrying case LC-421	Yes	Option	Option	Option

Dimensions



2 Production camera accessories

CCU-TX7

Camera Control Unit

- Triax camera control unit for the DXC-D30, DXC-D30WS and the DXC-637
- Runs either on AC or DC (12 V) power
- High speed high quality data transmission
- High quality triax transmission
- Long distance transmission, up to 1125m via (phi)13.2mm cable (Belden) and up to 750m via Ø8.5mm cable (Fujikura, Belden)
- Two SDI outputs
- Two component video outputs (selectable from Y/R-Y/B-Y, R/G/B and Y/C) in addition to two composite output
- Two inputs for return video
- Colour teleprompter compatible
- Flexible intercom system
- Program microphone system
- RS-232C port
- Coaxial control capability
- Half a 19-inch rack size wide and 4 units high

Supplied accessories

- AC power cord × 1
- Plug holder for AC power cord × 1
- Number plate (1 set)
- Operation manual × 1

Specifications

Input connectors

GEN LOCK: BNC type, loopthrough,
VBS/BS, 1.0 Vp-p, 75 Ω

RETURN (1,2): BNC type, loopthrough,
VBS, 1.0 Vp-p, 75 Ω

PROMPT (prompter): BNC type, loopthrough,
VBS, 1.0 Vp-p, 75 Ω

PGM IN: XLR 3-pin (1)

Output connectors

VBS (1,2): BNC type, VBS, 1.0 Vp-p, 75 Ω

(*)Y/R-Y/B-Y (1,2): BNC type,
Y: 1.0Vp-p, 75 Ω
R-Y/B-Y: 700 mVp-p, 75 Ω

(*)R/G/B (1,2): BNC type,
700 mVp-p, 75 Ω

(*)Y/C (1,2): BNC type,
Y: 1.0 Vp-p, 75 Ω
C: 286 mVp-p, 75 Ω

SYNC: BNC type,
VBS, 0.3 Vp-p, 75 Ω, negative

PIX (picture monitor): BNC type,
1.0 Vp-p, 75ohms

WF (waveform monitor): BNC type,
714 mVp-p, 75 Ω (Encoded
output: 1.0 Vp-p, 75 Ω)

WF MODE: 4-pin (1)

MIC OUT (CH-1/2): XLR 3-pin (2),
0 dBu/-20 dBu balanced,
2 channels

Camera control input/output connectors

CAMERA: Triax (Kings type) (1)

COAX: BNC type (1)

REMOTE: 10-pin

INTERCOM/TALLY: D-sub 25-pin (1)
4 W/2 W
TALLY: 24 V DC, TTL level or
contact selectable

INTERCOM (Front): XLR 5-pin (1)

RTS: XLR 3-pin (1)

RS232C: D-sub 25-pin (2)

Power requirements

Power consumption 95 W max.

Cable length 1500 m max. (±14.5 mm)

Operating temperature 5 °C to 40 °C (41 °F to 104 °F)

Storage temperature -20 °C to 55 °C (-4 °F to 131 °F)

Mass: Approx. 8.45 kg (18 lb 10 oz)

Dimensions: 218 (W) × 169 (H) × 415 (D) mm
(8⁵/₈ × 6³/₄ × 16³/₈ inches)

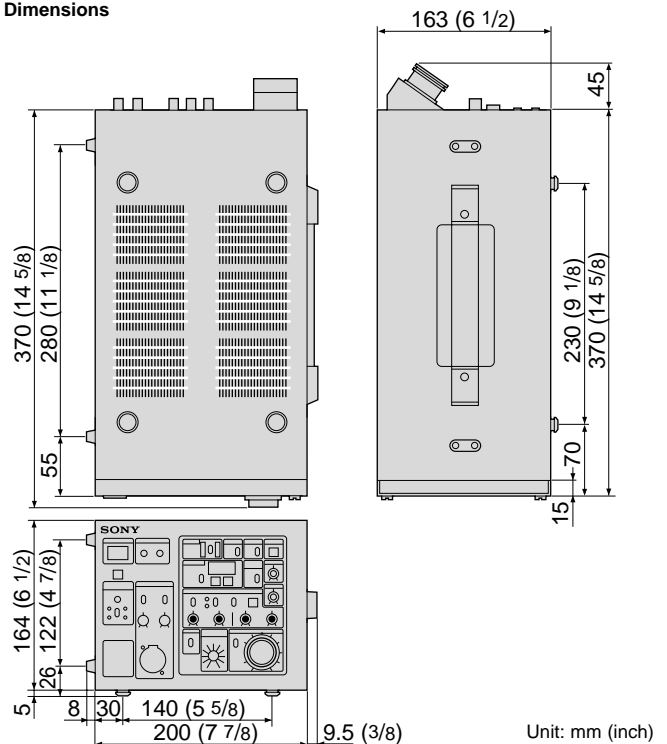
(*) These CCU output signals can be selected to be R/G/B or Y/R-Y/B-Y or Y/C.
(Note: This product is not available in some countries.)



VIDEO
CAMERAS



Dimensions



2 Production camera accessories

CCU-M7

Camera control unit for DXC-D30/D30WS/327B series

- Remote Control of DXC-D30/D30WS/637/327B series color video camera with maximum cable length of 300m
- Scene File memory for up to four shooting conditions
- VBS, R/G/B, Y/R-Y/B-Y, Y/C outputs
- XLR connector for MIC output
- Built-in AC power supply
- 19-inch rack mountable and 2-units high



Specifications

Power requirements:	AC 85 to 138V, 50/60Hz
Power consumption:	62 W
Inputs/outputs:	VBS OUT (2); BNC-type, 1.0Vp-p, sync negative, 75Ω
	R/G/B OUT; BNC-type, 0.714Vp-p, 75Ω
	Y/R-Y/B-Y OUT; BNC-type,
	Y: 1.0Vp-p, sync negative, 75Ω
	R-Y/B-Y: 0.7Vp-p (75% color bars)
	Y/C OUT; Y/C connector (4-pin),
	[Y] 1.0Vp-p, sync negative, 75Ω
	[C] 0.286Vp-p, 75Ω
	SYNC OUT; BNC-type, 4.0Vp-p, 75Ω, negative
	GENLOCK IN; BNC-type, VBS (1.0Vp-p) or
	BS (0.286Vp-p), loop through
	RET VIDEO IN; BNC-type, VBS, 1.0Vp-p, loop-through
	CAMERA; Sony Z-type, 26-pin
	TALLY/INTERCOM; DIN 4-pin or screw terminals
	MIC OUT; XLR-type, 3-pin, -20dBu
Control:	Gain select
	Output mode select
	Status display ON/OFF
	Shutter speed select
	Iris (auto/manual)
	White balance (auto/manual/preset)
	R/B gain
	Black balance (auto/manual/preset)
	Master pedestal
	R/B pedestal
	Gamma (manual/preset)
	Master gamma
	R/B gamma
	Knee point (auto/manual/preset)
	Detail level
	Sub-carrier phase
	Horizontal phase
	Scene File operation
	Tally/Intercom
Operating temperature:	-10 to 45°C (14 to 113°F)
Dimensions:	Approx. 424 (W) × 103 (H) × 387 (D) mm
	(16 ³ / ₄ × 4 ¹ / ₈ × 15 ¹ / ₄ inches)
Mass:	8.5 kg (18 lb 12 oz)
Supplied accessories:	AC power cord
	Rack mount metals
Optional cables:	
(CCU-M7 ↔ DXC-D30/D30WS/637/327B)	
	CCZ-A2 (2 m)
	CCZ-A5 (5 m)
	CCZ-A10 (10 m)
	CCZ-A25 (25 m)
	CCZ-A50 (50 m)
	CCZ-A100 (100 m)
(CCU-M7 ↔ RM-930)	
	CCMC-1210P3 (3 m)

2 Production camera accessories

CCU-M5

Camera control unit for DXC-D30/D30WS/327B/9000/950

•Directly interfaces with both Z-type (26-pin) and Q-type (14-pin) camera systems •Also interfaces with DXC-9000/950 via CCTZ/CCZ-A or CCTQ/CCQ-AM combination •Remote control operation with maximum cable lengths of 300m for Z-type and 100m for Q-type cable •VBS, R/G/B, Y/R-Y/B-Y, Y/C output •Built-in AC power unit •19-inch rack mountable and 2-units high



VIDEO
CAMERAS

Specifications

Power requirements:	AC 85V to 138V, 50/60Hz
Power consumption:	54W
Inputs/Outputs:	VBS OUT (2); BNC-type, 1.0Vp-p, sync negative, 75Ω R/G/B OUT; BNC-type, 0.714Vp-p, 75Ω Y/R-Y/B-Y OUT; BNC-type Y: 1.0Vp-p, sync negative, 75Ω R-Y/B-Y: 0.7Vp-p (75% color bars) Y/C OUT; Y/C connector (4-pin), [Y] 1.0Vp-p, sync negative, 75Ω [C] 0.286Vp-p, 75Ω SYNC OUT; BNC-type, 4.0Vp-p, 75Ω, negative GENLOCK IN; BNC-type, VBS(1.0Vp-p) or BB(0.45Vp-p), loop-through RET VIDEO IN; BNC-type, VBS, 1.0Vp-p, loop-through CAMERA; Sony Q-type, 14-pin Sony Z-type, 26-pin TALLY/INTERCOM; DIN 4-pin or screw terminals
Control:	Gain select Output mode select Status display Shutter speed select Iris (auto/manual) White balance (auto/manual/preset) Black balance (auto/manual/preset)* R/B gain Master pedestal R/B pedestal Gamma (DXC-9000/950 only) Knee point (auto/manual/preset)* Detail level Sub-carrier phase Horizontal phase Tally/Intercom* Zoom (DXC-9000/950 only, by connecting RM-930 with CCMC-1210P3) Focus (DXC-9000/950 only, by connecting RM-930 with CCMC-1210P3)
Operating temperature:	5 to 40°C (41 to 104°F)
Dimensions:	Approx. 424 (W) × 103 (H) × 321 (D) mm (16 ³ / ₄ × 4 ¹ / ₈ × 12 ³ / ₄ inches)
Mass:	5.9 kg (13 lb)
Supplied accessories:	AC power cord Rack mount brackets
Optional cables:	(CCU-M5↔DXC-D30/D30WS/537A/327A) CCZ-A2 (2m) CCZ-A5 (5m) CCZ-A10 (10m) CCZ-A25 (25m) CCZ-A50 (50m) CCZ-A100 (100m) (CCU-M5↔DXC-9000/950) CCTZ-3RGB (3m) with CCZ-A Cable CCTZ-3YC (3m) with CCZ-A Cable CCTQ-3RGB (3m) with CCQ-AM Cable (CCU-M5↔RM-930) CCMC-1210P3 (3m)

*When used with the DXC-9000/950, these items can not be controlled.



2 Production camera accessories

ACC KIT-201

Accessory Kit

- Accessory kit of the DSR-200A
- Consisting of three NP-F950, one NPA-10000/B and one AC-V900/B



ACC KIT-PD1

Accessory Kit

- Accessory kit of the DSR-PD1
- Consisting of one NP-F220/B, one AC-V100/B and one VMC-LM7



RM-M7G

Remote control unit for DXC-D30/ D30WS/327B, DSR-300/500WS

- Compact and lightweight hand-held control unit
- For field production or video operational panel for CCU-M7/M5

Power requirements:
DC 9 to 17V, from a camera or a CCU

Power consumption:
0.4W

Mass: 500 g (1 lb 2 oz)

Dimensions: Approx.
86 (W) × 170 (H) × 47 (D) mm
(3 1/2 × 6 3/4 × 1 7/8 inches)

Inputs/outputs:

CAMERA: 10-pin
MONITOR OUT: BNC-type
AUXILIARY IN: 10-pin

Control:

Gain select
Output mode select
VTR start/stop
Iris (auto/manual)
Auto iris override
White and black balance
(auto/manual/preset)
White balance memory
R/B gain
Gamma (manual/preset)
Master pedestal (manual/preset)
R/B pedestal
Knee point (auto/manual/preset)
Shutter speed select
Detail
Lock (ON/Part/OFF)



RM-VJ1

2 Production camera accessories

RM-81

RM-LG1

Remote Control Unit

- Remote controller of DXC-D30/D30WS/DSR-300 for ClipLink logging operation
- Especially useful in case that the camera operator concentrates only on shooting and logging should be done by another crew

Dimensions: 25 (H) × 85 (W) × 12 (D) mm
(1 × 3³/₈ × 1/2 inches)

(without projecting parts)

Weight: Approx. 50 g (1.8 oz)
(including a cable)

Cable: Length: 5 m
Connector: mini-plug

Operating temperature:
-10°C to 45°C (14°F to 113°F)

Storage temperature:
-20°C to 60°C (-4°F to 140°F)

Supplied accessories:

- Stickers (1 set)
- Binding ties (4)
- Panning rod mounting bracket (1)
- Operating instructions (1)



RCP-TX7

Remote Control Panel

- Remote Control Panel of the CCU-TX7
- Covers the complete range of control functions
- Can be installed into a standard 19-inch rack with RMM-TXR7 Rack Mount Kit

Power requirements:
10 to 17V
(supplied from camera or CCU)

Power consumption:
4.0W

Operating temperature:
-10°C to 45°C (14°F to 113°F)

Storage temperature:
-20°C to 55°C (-4°F to 131°F)

Mass: Approx. 1.5 kg (3 lb 5 oz)

Dimensions: 100 (W) × 330 (H) × 70 (D) mm
(4 × 13 × 2⁷/₈ inches)

Cable length: 50m max. (with CCA-7 cable)

Supplied accessories:

- CCA-7-5 Connecting Cable (5m)
- Number plate (1set)
- Screws and washers (2)
- Operation manual (1)



(Note: This product is not available in some countries.)

CA-325A

Camera adaptor for DXC-D30/ D30WS/327B

- Multiple outputs of R/G/B, composite sync, VBS, Y/C and AUDIO signals
- Built-in AC power unit

Power requirements:
AC 220/240V, 50/60Hz

Power consumption:
44W

Inputs/outputs:

- INTERFACE; 50-pin
- VBS OUT; BNC-type
- R/G/B OUT; BNC-type (3)
- COMPOSITE SYNC OUT;
BNC-type
- Y/C OUT;
- Y/C connector (Mini DIN 4-pin)
- AUDIO OUT; Phono jack
- GENLOCK IN; BNC-type
- REMOTE; 10-pin

Mass: 1.3 kg (2 lb 14 oz)



2 Production camera accessories

CA-325B

Camera adaptor for DXC-D30/ D30WS/327B

*Production of this product has been discontinued. For details, please consult your nearest Sony office.

- Multiple outputs of R/G/B, composite sync, VBS, Y/C and AUDIO signals
- DC operation type

Power requirements:
DC 12V

Inputs/outputs:
INTERFACE; 50-pin
VBS OUT; BNC-type
R/G/B OUT; BNC-type (3)
COMPOSITE SYNC OUT;
BNC-type
Y/C OUT;
Y/C connector (Mini DIN 4-pin)
AUDIO OUT; Phono jack
GENLOCK IN; BNC-type
REMOTE; 10-pin
DC IN; XLR-type, 4-pin

Mass: 500 g (1 lb 2 oz)



CA-327

Camera adaptor for DXC-D30/ D30WS/327B

- For interfacing DXC-D30/D30WS/327B with portable VTRs, CCU-M5 and CMA-8A
- Equips an S-connector and audio out connector
- The units with serial NO. 40100 and below can be used only with DXC-327B

Power requirements:
DC 12V

Inputs/outputs:
INTERFACE; DIN 50-pin
VTR/CCU/CMA; Sony Q-type, 14-pin
MIC IN; XLR-type, 3-pin
DC IN; XLR-type, 4-pin
GENLOCK IN; BNC-type
EARPHONE; mini jack
INTERCOM; mini intercom jack

Mass: 1.2 kg (21 lb 10 oz)



CA-537

Camera adaptor for DXC-D30/ D30WS/327B

- For interfacing DXC-D30/D30WS/327B with portable VTRs, CCU-M7/M5 and CMA-8A
- Supplies mic power from MIC IN connector

Power requirements:
DC 12V

Power consumption:
1.7W

Inputs/outputs:
INTERFACE; DIN 50-pin
VTR/CCU/CMA; Sony Z-type, 26-pin
MIC IN; XLR-type, 3-pin
DC IN; XLR-type, 4-pin
GENLOCK IN; BNC-type
EARPHONE; mini jack
INTERCOM; mini intercom jack

Mass: 1.3 kg (2 lb 14 oz)



CA-511

Camera adaptor for DXC-D30/ D30WS/327B

- Allows a BVV-5 and DNV-5 to be coupled with a DXC-D30/D30WS/327

Power requirements:
DC 12V

Power consumption:
0.1W

Inputs/outputs:
INTERFACE; DIN 50-pin
Betacam output; D-sub 50-pin

Mass: 0.5 kg (1 lb 2 oz)

Note: The CA-511 does not allow connection with the CA-50/50A series camera adaptors.



2 Production camera accessories

CA-512

Camera adaptor for DXC-D30/ D30WS/327B

•Allows an AG-7450 Panasonic S-VHS video tape recorder to be coupled with a DXC-D30/D30WS/327B

Power requirements:
DC 12V

Power consumption:
0.35W

Input/outputs:INTERFACE; 50-pin (1)
68-pin (1)

Mass: 0.7 kg (1 lb 9 oz)



VIDEO
CAMERAS

CA-513

Camera adaptor for DXC-D30/ D30WS/327B

•Allows a BR-S422E JVC S-VHS video tape recorder to be coupled with a DXC-D30/D30WS/327B

Power requirements:
DC 12V

Power consumption:
0.15W

Input/outputs:INTERFACE; 50-pin (2)

Mass: 0.69 kg (1 lb 8 oz)



CA-TX7

Camera Adaptor

•Camera Adaptor for the DXC-D30/D30WS to the CCU-TX7 Triax Camera Control Unit.
•Rotary (70°) triax connector for easy cabling
•Allows box cursor indication on the viewfinder attached to the DXC-D30/D30WS, such as DXF-701/701WS/51/41.

Supplied accessory:

Operation manual (1)

Input/output connectors:

CCU: Triax (Fischer type) (1)

CAMERA: Pro 76P Digital or
Pro 50P switchable

MIC IN (CH-1/2): XLR 3-pin (2),
600ohms, balanced

Input level: Mic in: -60dB
Line in: -20dB

DC IN: XLR 4-pin (1), 10.5V to 17V

DC OUT: 4-pin (1), 10.5V to 17V,
Max 12W

PROMPTER OUT: BNC type (1),
1.0Vp-p, 75ohms

RETURN OUT: BNC type (1),
1.0Vp-p, 75ohms

INTERCOM/PROGRAMME:

XLR 5-pin (1) (for Headset)

Input level: -60dBs (dynamic)

Output level: -0dBu, max 12dBu

DATA OUT: 10-pin (1)

DC 0 to 5V (analogue) (4)

DC 0 or 5V (digital) (2)

Power requirements

DC 120V (from Triax connector) or
DC 12V (10.5 to 17.0V) (from DC IN
connector)



Power consumption

	DC 120V		DC 12V	
	CA-TX7	Total	CA-TX7	Total
CA-TX7 only	10.5W	10.5W	7.5W	7.5W
w/DXC-D30, DXF-701WS	11.2W	26W	7.5W	22.3W
w/DXC-D30, DXF-51	12.3W	35W	7.5W	30.2W

Operating temperature:

-10 °C to 45 °C (14 °F to 113 °F)

Storage temperature:

-20 °C to 55 °C (-4 °F to 131 °F)

Operating humidity:

20% to 90%

Mass: Approx. 2.7 kg (5 lb 15oz)

Dimensions: 226 (H) × 221 (W) × 131 (D) mm
(9 × 8³/₄ × 5¹/₄ inches)

(Note: This product is not available in some countries.)

2 Production camera accessories

CA-WR855

Camera Adaptor for the WRR-855A

Attaches directly to the DSR-300/500WS via a V-shoe attachment and a direct audio/power connection interface.

Input voltage:

DC 10 to 17 V (12 V normal)

Output voltage:

DC 7 V

Load current: 200 mA DC or less (at DC 7V)

Mass: Approx. 300 g (10 oz)

Dimensions :

90 (W) × 132 (H) × 36 (D) mm
(3 5/8 × 5 1/4 × 1 7/16 inches)
(w/o projections)



COU-TX7

Camera Operational Unit

•Operational Panel of the CCU-TX7 •Can be attached to form a part of the front panel of the CCU-TX7 •Supports basic control of camera operation and painting •Useful when using the CCU-TX7 in limited space

Supplied accessory:

Operation manual (1)

Mass: Approx. 330 g (12.6 oz)

Dimensions: 105 (H) × 155 (W) × 43 (D) mm
(4 1/4 × 6 1/8 × 1 3/4 inches)

(Note: This product is not available in some countries.)



DSBK-301A

Index Picture Board

Allows Index Picture recording (ClipLink) to the DSR-300

Power requirement:

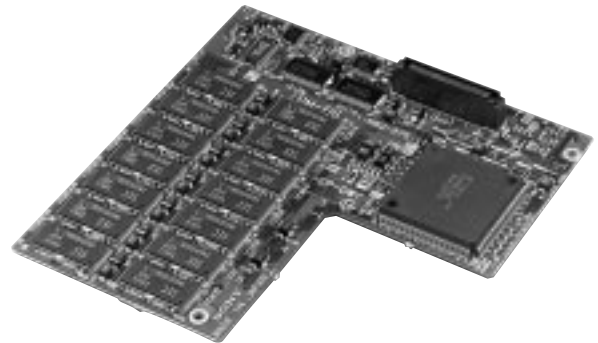
DC 3.4 V (supplied from VTR)

Power consumption:

Less than 300 mW

Mass: 50 g (1.76 oz)

Dimensions: 110 mm (4 3/8 inches) × 110.5 mm
(4 3/8 inches)



DSBK-501

Analog Composite Input Board for the DSR-500WS

Mass: approx. 22 g (0.7 oz)

Dimensions: 54 mm × 47 mm
(2 1/4 × 1 7/8 inches)



2 Production camera accessories

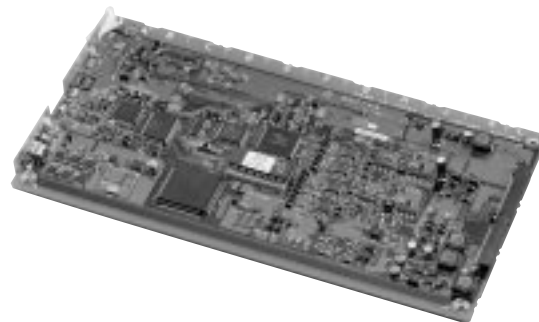
DXBK-701

SDI Output Board for the CCU-TX7

Power consumption:
4.5 W

Dimensions (w/h/d):
17 × 148 × 227 mm
($1\frac{1}{16}$ × $5\frac{7}{8}$ × 11 inches)

Mass: 330 g (11.6 oz)



VIDEO
CAMERAS

DXF-601

High resolution 1.5-inch electronic viewfinder for DXC-327B, UVW-100B (monochrome)

- Supplied with DXC-327BF/327BK/327BL UVW-100BF/100BK/100BL
- Rugged, diecast aluminium body
- Large eye cup size
- Peak volume control
- High horizontal resolution of 600TV lines
- Quick start CRT

Picture tube: 1.5-inch monochrome

Horizontal resolution:
600 lines (centre)

Indicator: REC/TALLY indicator, BATT indicator, SHUTTER indicator, GAIN UP indicator

Power requirements:
DC 12V

Power consumption:
2.1W

Mass: 660 g (1 lb 7 oz)

Dimensions: Approx.
192 (W) × 63 (H) × 219 (D) mm
($7\frac{5}{8}$ × $2\frac{1}{2}$ × $8\frac{5}{8}$ inches)



DXF-701WS

High resolution 1.5-inch electronic viewfinder for DXC-D30/D30WS, DSR-300/500WS (monochrome)

- Supports 16:9 and 4:3 aspect ratio
- Rugged, diecast aluminium body
- Large eye cup size
- Two Red REC Tally Lamps
- Peak volume control
- High horizontal resolution of 600TV lines
- Quick start CRT

Picture tube: 1.5-inch monochrome

Horizontal resolution:
600 lines (centre)

Indicator: REC (2), TAKE, BATT, SHUTTER, GAIN UP

Power requirements:
DC 12V

Power consumption:
2.1W

Mass: 660 g (1 lb 7 oz)

Dimensions: Approx.
236 (W) × 85 (H) × 219 (D) mm
($9\frac{3}{8}$ × $3\frac{1}{4}$ × $8\frac{5}{8}$ inches)



DXF-41

4-inch electronic viewfinder for DXC-D30/D30WS/327B, UVW-100B, EVW-300 (monochrome)

- CCIR/EIA switchable
- Tally, intercom facilities
- Can be mounted into the RMM-1800 rack mounting metal

Picture tube: 4-inch monochrome,
50° deflection

Horizontal resolution:
500 lines (centre)

Connectors: DIN 8-pin connector
Phone and mini for intercom

Power requirements:
Supplied from a camera

Power consumption:
10W

Operating temperature:
0 to 40°C (32 to 104°F)

Dimensions: Approx.
105 (W) × 107 (H) × 252 (D) mm
($4\frac{1}{4}$ × $4\frac{1}{4}$ × 10 inches)
including projecting parts and controls

Mass: Approx. 1.62 kg (3 lb 9 oz)
with stand and hood

Supplied accessories:
Stand (1), Screws (4), Hood (1)
Connecting cord (mini-mini) (1)



2 Production camera accessories

DXF-51

5-inch Monochrome Viewfinder

- High horizontal resolution of 650 TV lines
- Stable video image
- Bright and clear color image
- Under Scanning capability
- Can operate either on EIA and CCIR signals systems with automatic selection
- 16:9/4:3 Automatic Aspect Ratio Selection
- The viewfinder aspect ratio of the DXF-51 is automatically switched between 16:9 and 4:3
- Two red REC tally lamps
- Green Tally Lamp which can be used as a second tally lamp for CCU operations
- 20-pin connector for DXC-D30/D30WS
- DIN 8-pin connector for DXC-327B/637 etc.
- +/- 40 degrees of tilting is possible
- +/- 90 degrees of panning is possible
- Rugged and compact body

Supplied accessories:

Hood, 20-pin Cable,
DIN 8-pin Cable,
Operation Manual

Specifications

Picture tube: 5-inch monochrome, 70° deflection

Scanning system:

2:1 interlace, 625/50 or 525/59.94 switchable

Horizontal resolution:

650TV lines (center)

Camera connector:

20-pin or DIN 8-pin connector

Power requirements:

DC 12V +5.0/-1.5V (supplied from a camera)

Power consumption:

11W

Operating temperature:

0°C to 40°C (32°F to 104°F)

Mass: Approx. 2.4 kg (5 lb 5 oz) with stand and hood

Dimensions: Approx. 202 (H) × 199 (W) × 217 (D) mm
(8 × 7⁷/₈ × 8⁵/₈ inches)



including projecting parts and controls
Approx. 202 (H) × 199 (W) × 289 (D) mm
(8 × 7⁷/₈ × 11¹/₂ inches)
with stand and hood

DR-100

Intercommunication headset

- Used in the DXC-D30/D30WS/637/327B, UVW-100B, CCU-M5/M7, SEG-2550A/2000A
- With mini type 4-pole plug

Mass: 105 g (3.7 oz)



LC-421

Carrying case for DXC-D30/D30WS/637, DXC-327B, UVW-100B

- Can hold the DXC-D30/D30WS/637/327B in camcorder configuration with DSR-1/PVV-3/EVV-9000
- Supplied with the PVW-637K/637L, PVW-D30F, DSR-130F, UVW-100BF

Dimensions: Approx.

790 (W) × 440 (H) × 340 (D) mm
(31¹/₈ × 17³/₈ × 13¹/₂ inches)

Mass: 7.7 kg (17 lb)



LC-DS300SFT

Soft Carrying Case for the DSR-300/500WS

- Direct pack with accessories attached: Battery pack, Microphone, Viewfinder and Zoom lens.
- Easy to pack a variety of accessories such as Battery charger and other items.

Mass: approx. 3.5 kg (7 lb 11 oz)

Dimensions (w/h/d):

220 × 300 × 620 mm
(without projection)
(8 ³/₄ × 11 ⁷/₈ × 24 ¹/₂ inches)



2 Production camera accessories

LC-DS500

Hard carrying case for the DSR-300/500WS

- Direct pack with accessories attached: Battery pack, Microphone, Wireless receiver Viewfinder and Zoom lens.
- Easy to pack a variety of accessories such as RM-VJ1P, Battery charger and other items

Mass: approx. 8 kg (17 lb 10 oz)
Dimensions (w/h/d):
424 × 777 × 396 mm
(16 3/4 × 30 5/8 × 15 5/8 inches)



VIDEO
CAMERAS

LC-304SFT

Soft carrying case for DXC-D30 D30WS/637/327B, UVW-100B

- Can hold DXC-D30/D30WS/637/327B in camcorder configuration with DSR-1/PVV-3P/EVV-9000
- Lightweight for easy transportation

Dimensions: Approx.
720 (W) × 360 (H) × 286 (D) mm
(28 3/8 × 14 1/4 × 11 3/8 inches)
Mass: 2.2 kg (4 lb 14 oz)



LCR-1

Camera rain cover for DXC-D30/ D30WS/327B, UVW-100B camcorders

- Can be used for the DXC-D30/D30WS/637/327B, in camcorder configuration with DSR-1/PVV-3
- Transparent material used to operate camera and VTR switches with the LCR-1 on

Mass: 260g (9 oz)



LCH-VX9000

Hard Carrying Case

- Hard Carrying Case for DSR-200A
- Possible to house accessories for DSR-200A

Specifications:
Dimensions: 560(W) × 395(H) × 310(D) mm
(22 1/8 × 15 5/8 × 12 1/4 inches)
Mass: Approx. 6.5kg (14 lb 5.2 oz)



2 Production camera accessories

LCH-TRV900

Hard Carrying Case

- Hard Carrying Case for DSR-PD100A
- Possible to house accessories for the DSR-PD100A.

Specifications:

Dimensions: 352(W) × 236(H) × 162(D) mm
(13 7/8 × 9 3/8 × 6 3/8 inches)

Mass: Approx. 2.5kg (5 lb 8.1 oz)



CAC-12

Camera microphone holder

- Adjustable microphone direction
- For attaching the ECM-672/670 or the C-74 condenser microphone to the DXC-D30/D30WS/327B and UVW-100B



EC-0.3C2

Microphone cable

- Cable length: 0.3 m
- Connectors: XLR-3-11C ↔ XLR-3-12C



EC-0.5C2

Microphone cable

- Cable length: 0.5 m
- Connectors: XLR-3-11C ↔ XLR-3-12C



2 Production camera accessories

ECM-670

Electret Condenser Microphone

- Super-cardioid microphone with minimum sensitivity to ambient noise
- Compact and light weight design
- Suitable for mounting on Sony Betacam, DVCAM and DXC series cameras
- External power supply (DC 12V to 48V)



VIDEO
CAMERAS

ECM-672

Electret Condenser Microphone

- Super-cardioid characteristics, rejecting indirect sound
- 2-way powering — internal battery (Approx. 3,000 hours of continuous operation) or external power supply (DC 48V)
- 2-position low-cut filter
- Suitable for mounting on Sony Betacam, DVCAM and DXC series cameras



CAC-4

Chest pad for DXC-D30/D30WS/ 327B, UVW-100B

- Provides more stable camera operation
- Attachable to the VCT-12/14/U14 tripod adaptors directly

Mass: Approx. 185 g (7 oz)



VCT-U14

Tripod adaptor for DXC-D30/D30WS/ 327B, UVW-100B, DSR-300/500WS

- Adjustable camera position with screws

Dimensions: 282 (W) × 27 (H) × 80 (D) mm
(11¹/₈ × 1¹/₈ × 3¹/₄ inches)

Mass: Approx. 900 g (2 lb)



2 Production camera accessories

WRR-855A

UHF Synthesized Tuner

- Slot-in type portable tuner designed for use with Sony camcorders
- Water proof structure
- Compact design and lightweight only 280g (11 oz)



RMM-1800

Rack-mounting metal

- This mounting adaptor is used for installing the DXF-41 and CMA-8A into a 19-inch EIA standard rack which provides a clean and organized arrangement for studio system

Dimensions: 482 (W) × 136.2 (H) × 223 (D) mm
(19 × 5³/₈ × 8⁷/₈ inches)

Mass: 3.1 kg (6 lb 13 oz)

Supplied accessories:
Blank panel (2)



RMM-TXC7

Rack Mount Kit

- Allows two CCU-TX7 units or one unit with a waveform monitor to be mounted into a standard 19-inch rack

Mass: Approx. 3.7 kg (8 lb 3 oz)

Dimensions: 482 (W) × 177 (H) × 380 (D) mm
(19¹/₈ × 7 × 15 inches)

Supplied accessories:
Installation manual (1)
Blank panel (1)

(Note: This product is not available in some countries.)



RMM-TXR7

Rack Mount Kit

- Up to four RCP-TX7 units can be installed into a standard 19-inch rack
- Comes with two blank panels

Mass: Approx. 2.7 kg (5 lb 12 oz)

Dimensions: 482 (W) × 75 (H) × 354 (D) mm
(19 × 3 × 14 inches)

Supplied accessories:
Installation manual (1)
Blank panel (2)

(Note: This product is not available in some countries.)



2 Production camera accessories

LO-32BMT

2/3-inch lens mount adaptor for
DXC-327B/9100/950/930

•For mounting a 2/3-inch bayonet-mount
type lens on the DXC-327B/9100/950/930
and UVW-100B



VIDEO
CAMERAS

LO-23

Flexible cable unit

•Servo zooming and manual focusing for
Fujinon Lens, such as
VCL-916 BYA and VCL-714BXA

Cable length: 1 m (3.3 ft)

Mass: 1.2 kg (2 lb 10 oz)



LO-26

Flexible cable unit

•Servo zooming and manual focusing for
Canon Lenses, such as VCL-918BY

Cable length: 1 m (3.3 ft)

Mass: 1.1 kg (2 lb 7 oz)



2 Production camera accessories

LENSES FOR DXC-D30/D30WS, PVW-D30 and DSR-130/500WS camcorder (2/3-inch Bayonet mount type, 12-pin connector)



	VCL-918BY
Image format	2/3-inch
Mount	Sony bayonet
Focal length	9 to 162 mm
Zoom ratio	18×
Zoom control	Manual & motorized
Iris control	Auto & manual
Maximum aperture ratio	1.8
Minimum object distance	0.9 m
Zoom extender	—
Macro	Yes
Filter size	82 mmø
Mass	1.3 kg (2.7 lb)
Dimensions	171.5 mm(L) (6 7/8 inches)
Note	By Canon

LENSES FOR DSR-300 (1/2-inch Bayonet mount type, Hot-shoe connector)



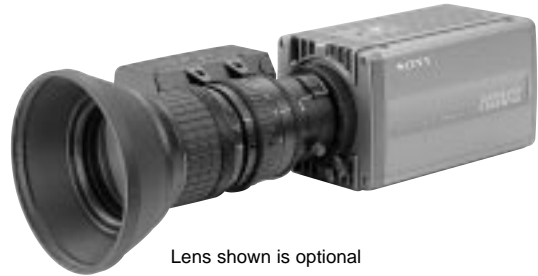
	VCL-714BXA
Image format	1/2-inch
Mount	Sony 1/2-inch bayonet
Focal length:	7.5 mm to 105 mm
Zoom ratio:	14×
Zoom control:	Manual/Motorized
Iris control:	Manual/Auto
Maximum aperture ratio:	1.4
Minimum object distance:	1.1 m
Zoom extender	NO
Macro	Yes
Filter size:	72 mm
Mass:	1.1 kg (2 lb 6 oz)
Dimensions:	157.5 mm(L) (6 1/4 inches)
Lens connectors	Hot-shoe type
Notes	by Fujinon

3 Sensor video cameras

DXC-H10

2/3 inch 3-CCD Color Video Camera

- Three 2/3 inch IT (Interline Transfer) Hyper HAD® CCDs
- New HDVS (High Definition Video System) camera with 2,000,000 effective picture elements and 1000TV lines of resolution
- High sensitivity of F8.0 at 2,000 lux
- Compact and light weight: 1200 g (2 lb 10 oz)
- CCD IRIS®, AGC (Automatic Gain Control), and Auto Iris function control wide range of incoming light levels
- Four pattern Light Metering System with selectable detection method (Multi, Average, Spot, and Peak Mode)
- Three white balance modes (AWB, ATW, Manual)
- Ten step electronic shutter speed selection
- On-screen programmable menu functions
- Full function control from the rear panel or the optional RM-C950 Remote Control Unit
- Precise picture controls including Linear Matrix, Vertical Shading Compensation, Advanced Detail, Knee, Master Pedestal, and Negative/Positive mode
- Flash synchronization function
- Various electronic shutter functions including Clear Scan™, Long Term Exposure, RR (Restart Reset), and LTR (Long Term Reset)



Lens shown is optional

VIDEO CAMERAS

- Supplied Accessories:
- Lens mount cap (1)
 - Name sheet for the buttons on the RM-C950 (1)
 - Operating Instructions (1)
- Optional Accessories:
- Camera Adaptor CMA-H10
 - Remote Control Unit RM-C950
 - Digital Scan Converter DSC-1024HD
 - Camera Cable CCZ-A2/A5/A10/A25/A50/A100
 - Microscope adaptors and couplers MVA-690, MVAC-33-0/N/SM
 - Monitor cable CCXC-9DBS, D-SUB 9-pin ↔ 5 BNC

Specifications

Image system/optical system

Image device: Three 2/3-inch Interline Transfer Hyper HAD CCDs
 Picture elements: 1920 (horizontal) × 1035 (vertical)
 Shooting system: CCD 3-chip
 Lens: Prism type, F1.4
 Lens mount: 2/3 inch bayonet type

Video system

Synchronization: Internal/external synchronization, automatic switching
 Signal format: HD format (conforms to BTA standard)
 Output frequency (horizontal/vertical): 33.75 kHz/60 Hz or 33.71 kHz/59.94 Hz (60 Hz or 59.94 Hz switchable)

Functions/performance

Horizontal resolution: 1000 TV lines
 Minimum illumination: 16 lx (F1.4, G or Y: 100%, gain: + 12 dB)
 Sensitivity: 2000 lux (F8, 3,200K) system
 Signal-to-noise ratio: 50 dB (Y, Gain: 0 dB, Gamma: OFF, 100 kHz to 30 MHz)
 Gain control: Fixed: 0/6/12 dB selectable
 AGC: Automatically adjusted within range of 0 dB to 12 dB
 White balance: AWB: automatic adjustment (2,500 K to 9,000 K) (R. PAINT and B. PAINT adjustable)
 ATW: Automatic tracing (R. PAINT and B. PAINT adjustable)
 MANU: Manual adjustment (R. GAIN and B. GAIN adjustable)
 Color temperature: 3200 K/5600 K switchable
 Electronic Shutter: CCD IRIS: Automatic exposure control (within range of 1/60-1/10000 seconds)
 STEP: 1/100 (flickerless mode), 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000, 1/20000, 1/40000, 1/100000 s
 MANU: 2 to 256 frames (low speed mode frame), 1 to 560H (high speed mode)
 External Trigger Shutter: RR (Restart Reset)
 EXT. TRIG
 LTR (Long-term reset)
 AE mode: MULTI, AVERAGE, SPOT, PEAK
 Knee: HI, LOW, AUTO
 Master Pedestal: Adjusts pedestal levels of G, B, and R channels simultaneously
 Linear Matrix: ON/OFF switchable

Vertical Shading compensation:

OFF/MANUAL switchable
 Gamma compensation: ON/OFF switchable
 Negative/Positive mode: ON/OFF switchable
 Accumulation mode: Field/frame switchable
 Detail compensation: ON/OFF switchable
 Flash synchronization: ON/OFF switchable
 Video signal output mode: GBR/YPbPr switchable
 Sync signal format: Tri-level sync signal/Bi-level switchable
 Sync signal input/output mode: Input/output switchable (HD/VD and SYNC signals switched simultaneously)
 Horizontal phase: Adjustable

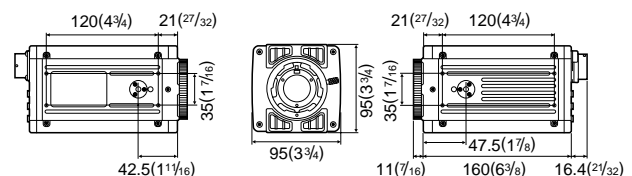
Inputs/outputs

Video input/output signals:
 Y/R/G/B output: 1 Vp-p (75 Ω)
 Pb/Pr output: 0.7 Vp-p (75 Ω)
 HD/VD input/output: 1 Vp-p (75 Ω)
 SYNC input/output: 0.6 Vp-p (tri-level, 75 Ω), 0.3 Vp-p (bi-level)
 WEN pulse: TTL level, negative
 External sync input: SYNC or HD/VD switched automatically
 External trigger input: TTL level, negative
 Pulse width: more than 3H
 Input/output connectors: MONITOR: D-sub 9-pin
 CAMERA ADAPTOR: 26-pin
 LENS IRIS: 12-pin
 LENS CTRL: 12-pin
 FLASH: small coaxial type

General

Power supply: 15 V DC (10.5 to 15 V)
 Power consumption: Approx. 25 W
 Operating temperature: -5 to 45°C (23 to 113°F)
 Storage temperature: -20 to 60°C (-4 to 140°F)
 Operating humidity: 20% to 80% (free of condensation)
 Storage humidity: 20% to 95% (free of condensation)
 Dimensions: 95 (W) × 95 (H) × 160 (D) mm (3³/₄ × 3³/₄ × 6²/₅ inch)
 Mass: 1.2 kg (2 lb 10 oz)

Dimensions

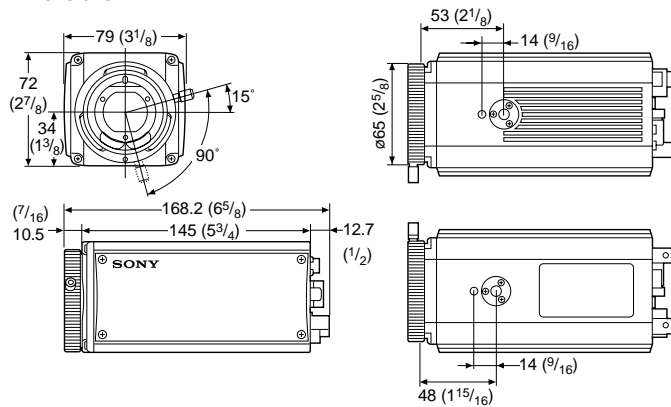


Unit: mm (inch)

3 Sensor video cameras

Video out:	VBS: 1.0 Vp-p, 75 Ω, sync negative RGB: 0.7 Vp-p, 75 Ω Y/C: Y: 1.0 Vp-p, 75 Ω, sync negative C: 0.286 Vp-p, 75 Ω, at burst level VGA: RGB: 0.7 Vp-p, 75 Ω SYNC/HD/VD: 2 Vp-p, 75 Ω WEN: 5 Vp-p, high impedance
External sync input:	VBS/BS/VS/SYNC/HD/VD (VBS: 1.0 Vp-p or burst 0.3 Vp-p, SYNC: 0.3 Vp-p, HD/VD: 2.0-4.0 Vp-p), 75 Ω
External trigger input:	Trigger pulse, low level: 0 to 0.5 V, high level: 4.5 to 5.0 V, high impedance
Operating temperature:	-5 to 45°C (23 to 113°F)
Storage temperature:	-20 to 60°C (-4 to 140°F)
Power requirements:	DC 12 V (supplied from CMA-D2 or CCU-M5)
Power consumption:	Approx. 11.5 W
Mass:	Approx. 790 g (1 lb 11 oz)
Connectors:	LENS (6-pin), RGB/SYNC (D-sub 9-pin), DC IN/VBS (12-pin), VIDEO OUT (BNC), CCU (20-pin), REMOTE (8-pin), EXT CTRL (BNC), HOT SHOE (14-pin)

Dimensions



Unit: mm (inch)

3 Sensor video cameras

DXC-950

3-chip CCD color video camera

- Multi-purpose 3-CCD compact camera for versatile industrial video applications
- Newly developed 1/2-inch IT Power HAD™ sensor CCDs offer superb picture quality:
 - High horizontal resolution of 750 TV lines
 - High sensitivity of F9.5 at 2000 lx
 - Excellent signal-to-noise ratio of 60 dB
 - Excellent color reproduction
- Convenient operational functions including Flash Synchronization and Three-pattern Light Metering System
- Various precise picture controls •Field or frame integration mode selectable •Remote control from the optional RM-C950 Remote Control Unit or CCU-M5 Camera Control Unit is possible •Built-in RS-232C serial interface •On-screen four divided menu with Memory Bank function for easy set-up
- Digital control CCD IRIS function (equivalent to six F-stops) and AGC automatically adjusts a wide range of incoming light levels •Alternative White Balance Control Modes - AWB, ATW (Trimming with R/B Paint function is possible) or manual (R/B gain level adjustment) •Minutely controlled electronic shutter speed - Manual speed selection (1H for Clear Scan™ or 1 frame step for long term exposure) in addition to the conventional 8-step speed selection •Multiple video signal outputs via a 9-pin D-sub connector - Y/R-Y/B-Y or RGB, Y/C or VBS •Composite signal output via a BNC connector •Genlock capability with VBS or BS signals
- Accepts bayonet-mount lenses with a hot-shoe connection
- Optional CMA-D2 can be used for power supply

- Supplied accessories: Lens mount cap (1)
Operation manual (1)
- Optional accessories: Camera adaptor CMA-D2
Remote control unit RM-C950
Camera control unit CCU-M5
Digital Still Recorder DKR-700
DC cable (5/10/25/50/100 m)
CCDC-5/10/25/50A/100A
12-pin multi-core cable (2/5/10/25 m)
CCMC-12P02/05/10/25
Component/RGB cable CCXC-9DD
(5 m, 9-pin D-sub g 9-pin D-sub)
Component/RGB cable CCXC-9DBS
(5 m, 9-pin D-sub g 5BNCs)
Component/RGB cable CCMC-9DS
(5 m, 9-pin D-sub g 4BNCs, DIN 4-pin)
Component/RGB cable CCMC-9DSMN
(5 m, 9-pin D-sub g 3BNCs, Audio Mini jack, DIN 4-pin)
Camera cable CCTQ-3RGB
(3 m, 20-pin g 14-pin, for CCU-M5)
Camera cable CCTZ-3RGB
(3 m, 20-pin g 26-pin, for CCU-M5)
Camera cable CCTZ-3YC
(3 m, 20-pin g 26-pin, for CCU-M5)
Microscope adaptor with auto iris MVA-40
Microscope adaptor MVA-41A
Microscope adaptor (one way) MVA-265
Coupler for NIKON microscopes except the SMZ-10 series MVAC-33-N
Coupler for NIKON SMZ-10 series microscopes MVAC-33-SM
Coupler for OLYMPUS microscopes MVAC-33-O
Coupler for ZEISS microscopes except AXIOVERT 100/135 series and SV series ZBB
Coupler for ZEISS AXIOVERT 100/135 series and SV series microscopes ZSV
2/3-inch Lens Mount Adaptor LO-32BMT
Manual zoom lens VCL-707BXM
(7.5 to 52.5 mm, F1.6)
Remote zoom lens VCL-714BXEA
(7.5 to 105 mm, F1.4)
Remote zoom lens VCL-717BXEA
(7 to 119 mm, F1.4)



Lens shown is optional

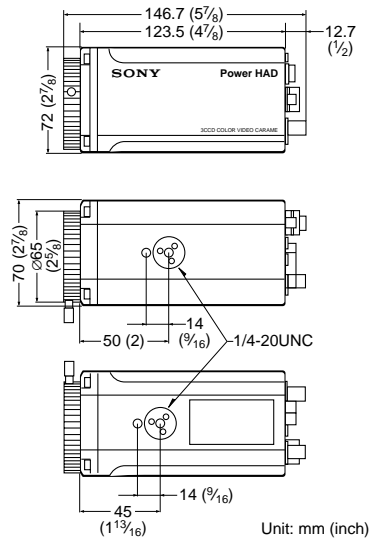


Specifications

Image device:	1/2-inch Interline Transfer Power HAD CCD (×3)
Picture elements:	768 (H) × 494 (V)
Sensing area:	6.4 mm × 4.8 mm (1/2-inch)
Video signal system:	NTSC standard
Scanning system:	525 lines, 2:1 interlace
Sync system:	Internal or external with VBS or BS
Horizontal resolution:	750 TV lines
Lens mount:	1/2-inch, 38 mm bayonet mount
Sensitivity:	2000 lx with F9.5
Minimum illumination:	5 lx (F1.4)
Gain control:	AGC/0 to 18 dB (1 dB step)/ISO (400, 800, 1600) switchable
Electronic shutter:	OFF (1/60 s)/STEP/Long Exp./C. Scan switchable STEP: 1/100 (Flickerless mode), 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 (seconds) Long Exp.: 255 to 1 frames (for field mode), 256 to 2 frames (for frame mode), OFF
CCD IRIS control:	C. Scan: 260/525 to 1/525 (H), OFF ON/OFF switchable
AE window:	Large/Medium/Spot
White balance:	ATW, AWB (R/B Paint: -7 to 0 to +7) MANU (R/B Gain: -99 to 0 to +99)
Signal-to-noise ratio:	60 dB
Linear matrix:	ON/OFF switchable
Shading compensation:	OFF/1 to 9
Master pedestal:	-99 to 0 to +99
Detail:	-99 to 0 to +99
Phase control:	H/SC phase control H. phase: -99 to 0 to +99 SC phase: 0/180, -99 to 0 to +99
Gamma:	ON/OFF switchable
Knee:	1/2 switchable
Green-on-sync:	ON/OFF switchable
Memory bank:	A/B switchable
Memory protect:	ON/OFF switchable
Data send:	A>B, B>A switchable
Baud rate:	9600, 4800, 2400, 1200
Flash mode:	OFF/master/slave switchable
Printer trigger:	ON/OFF switchable
Video out:	VBS: 1.0 Vp-p, 75 Ω, sync negative RGB: 0.7 Vp-p, 75 Ω Y/C: Y: 1.0 Vp-p, 75 Ω, sync negative C: 0.286 Vp-p, 75 Ω, at burst level Y/R-Y/B-Y: Y: 1.0 Vp-p, 75 Ω R-Y: 0.7 Vp-p, 75 Ω B-Y: 0.7 Vp-p, 75 Ω
Operating temperature:	-5 to 45°C (23 to 113°F)
Storage temperature:	-20 to 60°C (-4 to 140°F)
Power requirements:	DC 12 V (supplied from CMA-D2 or CCU-M5)
Power consumption:	7.8 W
Mass:	Approx. 670 g (1 lb 8 oz)
Connectors:	LENS (6-pin), RGB/SYNC (D-sub 9-pin), GENLOCK IN (BNC), DC IN/REMOTE (12-pin), VIDEO OUT (BNC), CCU (20-pin), FLASH (Synchronous socket), REMOTE (8-pin)

3 Sensor video cameras

Dimensions



3 Sensor video cameras

DXC-390

3-CCD Color Video Camera

•1/3 type IT 3-CCD •C mount •Exwave HAD technology provides excellent sensitivity and low smear levels •Superior picture quality: High resolution of 800 TVL and S/N ratio of 62 dB •High Sensitivity of F8 at 2000lx •Scene Files and User Files •Powerful picture contrast controls: DynaLatitude, Dynamic Contrast Control Plus (DCC+) and Black Stretch •Several enhance controls: Detail, Linear Matrix and Potential Enhance •Wide selection of Automatic Exposure (AE) modes •Hyper Gain •RGB, Y/C and composite video outputs •Full control of functions from the side panel or the optional RM-C950 Remote Control Unit



Supplied accessories: Lens cap (1)
Tripod adapter (1)
Operation manual (1)
Panel sheet for RM-C950

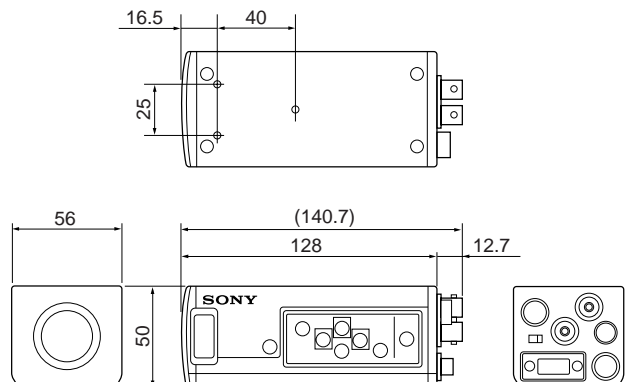
Optional accessories:
Lens VCL-610WEA/614WEA
VCL-08WM/16WM/25WM
Remote control unit RM-C950
Camera adapter CMA-D2, CMA-D3
Digital still recorder DKR-700
Microscope adapter MVA-15
Microscope coupler MVAC-33-N/33-O/33-SM
Camera cable CCDC-5/10/25/50A/100A
CCMC-12P02/05/10/25
CCXC-9DBS
CCMC-9DS
CCMC-3MZ
CCZ-A2/A5/A10/A25/A50/A100

Specifications

Pick-up device: 1/3 type IT (Interline Transfer) CCD
Effective picture elements: 768(H) × 494(V)
Sensing area: 6.00(H) × 4.96(V) mm
Scanning system: 2:1 interlaced, 525 lines
Horizontal frequency: 15.734 kHz
Vertical frequency: 60 Hz
Sync system: Internal or External with VBS, HD/VD (Automatic Switching)
Phase control: H/SC phase control
Horizontal resolution: 800TV lines
Lens mount: C mount
Flange back: 17.526 mm in air
Sensitivity: F8.0 at 2000 lx
Minimum illumination: 4 lx (F2, GAIN: HYPER)
S/N ratio: 62 dB
Gain: STEP/AGC/HYPER selectable
STEP: 0~24 dB by 1 dB step
AGC: 0~24 dB (Limit value: 6dB, 12dB, 18dB, 24dB variable)
HYPER: 30 dB
Electronic shutter: OFF/STEP/VARIABLE/CCD IRIS selectable
OFF 1/60 s
STEP: OFF (1/60 s), F.L.(PAL:1/100 s), 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000, 1/20000, 1/40000, 1/100000, 0.1, 0.2, 0.3, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 5.0, 6.0, 7.0, 8.0 s
VARIABLE:
in high-speed mode 260/525 to 1/525H, OFF
in low-speed mode 255 to 1 frames for field mode
256 to 2 frames for frame mode
CCD IRIS: 1/60s~1/100000 s (Limit value: 1/500, 1/1000, 1/2000, 1/4000, 1/10000, 1/20000, 1/40000, 1/100000 s variable)
Remote (Auto or Manual)/Video selectable
Lens: AE area: Multi/Large/Medium/Spot/Slit/Manual selectable
AE level: Variable
AE speed: Fast/Mid/Slow selectable
AE detect: Average/Peak selectable
Contrast Effect: Manual/DynaLatitude/DCC+ selectable
Knee Point: High/Normal/Low selectable (Contrast Effect: Manual)
Black stretch: Variable (Contrast Effect: Manual)
Gamma: ON/OFF Variable
Pedestal: Master and R/B Manual adjustable
Black balance: ABB

White balance: AWB/ATW NORMAL/ATW WIDE/MANUAL/3200K/5600K selectable
AWB or ATW R/B Paint, MANUAL R/B Gain
ATW area: NORMAL/MANU selectable
ATW speed: FAST/NORMAL/SLOW selectable
Detail level: ON/OFF (Variable at ON)
Detail Frequency: HIGH/MID/LOW selectable
Linear matrix: ON/OFF
Linear matrix MODE: STANDARD/R Enhance/G Enhance/B Enhance/Manual selectable
Partial Enhance: ALL/IN/OUT selectable
CCD integration mode: FIELD/FRAME selectable
Shading Compensation: OFF/ON (Manual control)
Trigger Polarity: Positive edge trigger/Negative edge trigger selectable
Baud rate: 19200/9600/4800/2400/1200 selectable
Sync: RGB/G/OFF selectable
Strobe: ON/OFF
User File: A/B switchable (Two pattern memories)
Scene File: STANDARD/MICROSCOPE/FULL AUTO/STROBE/FILE A or B
Output signal: VBS: 1.0 Vp-p, 75Ω, sync negative
RGB: 0.7 Vp-p, 75Ω, Sync ON/OFF possible
SYNC: 2 Vp-p, 75Ω
Y: 1.0 Vp-p, 75Ω
C: 0.3 Vp-p, 75Ω, without sync
Operating temperature: -5°C to 45°C
Storage temperature: -20°C to 60°C
Power requirements: DC 10.5 V to 15.0 V
Power consumption: Approx. 7.6 W
Mass: Approx. 370 g
Connectors: Lens (6 pin)
RGB/SYNC (9 pin D-sub)
DC IN/VBS (12 pin)
VIDEO OUT (BNC)
TRIGGER IN (BNC)
REMOTE (8 pin mini DIN)

Dimensions



3 Sensor video cameras

DXC-107A

CCD color video camera

- High resolution 1/2-inch IT Hyper HAD CCD offers high quality picture
- High sensitivity in minimum illumination of only 4.5 lx with F1.2 lens
- Signal-to-noise ratio of 48 dB
- High horizontal resolution of 470 TV lines
- S-video output is available through the CMA-D2 Camera Adaptor
- Four alternative white balance control modes: AWB (Auto White Balance)/ATW (Auto Tracing White), Preset modes—INDOOR (3200 K)/OUTDOOR (5600 K)
- 3-position selectable CCD-IRIS covers various light conditions
- Variable speed electronic shutter
- Built-in four digit ID number generator
- C-mount adoption
- External synchronization with VS
- Single cable operation (video/sync/power triple multiplex transmission) for easy installation with the optional YS-W150/W250 Camera Adaptor



Lens shown is optional

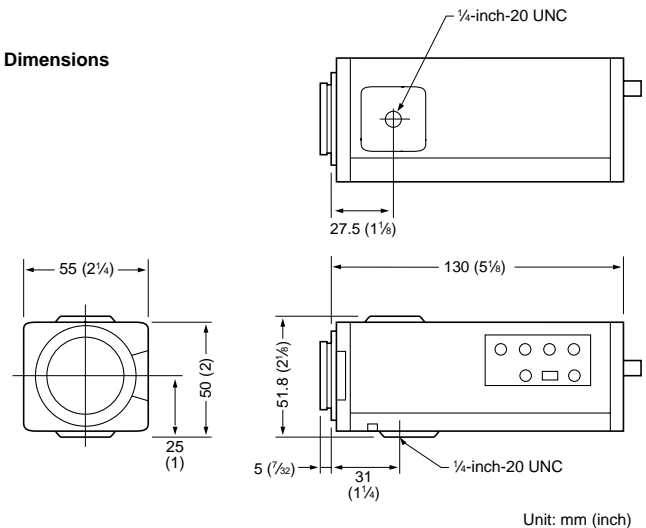


- Supplied accessories: Lens connector (1)
Lens mount cap (1)
Operation manual (1)
- Optional accessories: Camera adaptor CMA-D7
Camera adaptor CMA-D2
Camera adaptor YS-W150/W250
DC cable CCDC-5/10/25/50A/100A (5/10/25/50/100 m)
12-pin multi-core cable CCMC-12P02/05/10/25 (2/5/10/25 m)
Microscope adaptor MVA-12
Coupler for NIKON microscopes except the SMZ-10 series MVAC-33-N
Coupler for NIKON SMZ-10 series microscopes MVAC-33-SM
Coupler for OLYMPUS microscopes MVAC-33-O
Coupler for ZEISS microscopes except AXIOVERT 100/135 series and SV series ZBB
Coupler for ZEISS AXIOVERT 100/135 series and SV series microscopes ZSV

Specifications

- Image device: 1/2-inch Interline Transfer Hyper HAD CCD
Picture elements: 768 (H) × 494 (V)
Sensing area: 6.4 mm × 4.8 mm (1/2-inch)
Video signal system: NTSC color system
Sync system: Internal or external with VS
Horizontal resolution: 470 TV lines
Lens mount: C-mount (Back focus adjustable)
Sensitivity: F5.6 at 2,000 lx (AGC off)
Minimum illumination: 4.5 lx with F1.2 (AGC on)
Gain selection: AUTO (ON/OFF selectable)
Electronic shutter: OFF, 1/100 (Flickerless mode), 1/250, 1/1000, 1/2000, 1/4000, 1/10000 (s)
S/N ratio: 48 dB
CCD IRIS control: BACKLIGHT/STANDARD/SPOTLIGHT selectable
Video out: VBS: 1.0 Vp-p, 75 Ω, sync negative
Y/C: Y: 1.0 Vp-p, 75 Ω, sync negative
C: 0.286 Vp-p, 75 Ω, at burst level
- Phase control: H phase control
Operating temperature: 0 to 40°C (32 to 104°F)
Storage temperature: -30 to 60°C (-22 to 140°F)
Power requirements: DC 12 V from CMA-D2
DC 28 V from YS-W250
Power consumption: 6.3 W using coaxial cable (DC 28 V)
3.3 W using CCMC-12P multi-core cable (DC 12 V)
Maximum cable length: 300 m using 5C-2V coaxial cable
100 m using CCDC-100A
25 m using CCMC-12P25 multi-core cable
- White balance: AUTO: ATW or AWB
PRESET: 3200 K or 5600 K
- Mass: Approx. 360 g (12.7 oz)
Connectors: DC IN/VIDEO OUT (BNC)
DC IN (12-pin)
LENS (4-pin)

Dimensions



Unit: mm (inch)

3 Sensor video cameras

DXC-LS1

CCD color video camera

•Extremely small and compact camera composed of camera head and camera control unit •1/4-inch Hyper HAD CCD adoption •High picture quality with 470 TV lines, a high sensitivity of F5.6 at 2000 lux and signal-to-noise ratio of 46 dB •Advanced color matrix function allows you to adjust R, G and B colors independently for accurate color reproduction •User preset function for easy set-up (2 patterns) •Exchangeable camera head •AE mode (CCD IRIS function combined AGC) provides automatic control over incoming light •Automatic backlight adjustment •Built-in electronic zoom function (×1.00 to ×3.00) •Four-pattern Light Metering system with selectable detection method •Alternative White Balance Control modes - AWB, ATW, 5600 K or 3200 K (Trimming with R/B paint function is possible with AWB, 5600 K and 3200 K) •Shutter speed control capability for long term exposure •Variable gamma function enables contrast adjustment •Enhancers function provides crisper, sharper images •Three different sizes of color bars •Flicker canceller is provided, freeing the electronic shutter •Positive films can be shot as negative, or vice versa •B&W mode for sharp images free from color noise •Built-in RS-232C interface •Genlock capability with VBS •Y/C or VBS output •Optional CMA-D2 can be used for power supply



Lens shown is optional



Supplied tripod adaptor

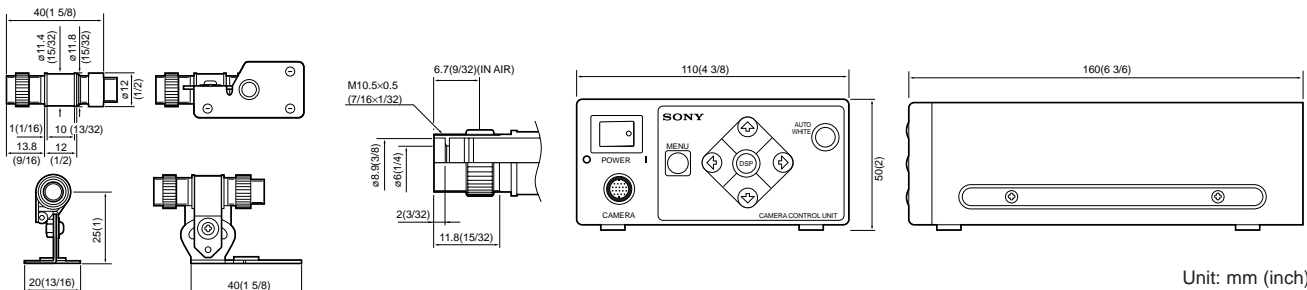
- Supplied accessories: Tripod adaptor (1)
 Lens mount cap (1)
 Operation manual (1)
- Optional accessories: Camera cable (3/10 m) (1)
 Camera adaptor CMA-D2
 Camera adaptor AC-E90HG
 Manual iris lens VCL-04UVM (4 mm, F1.4)
 C-mount adaptor LO-UCMT
 DC cable (5/10/25/50/100 m)
 CCDC-5/10/25/50A/100A
 12-pin multi-core cable (2/5/10/25 m)
 CCMC-12P02/05/10/25
 Camera cable CCMC-16P10 (10 m, 16-pin ↔ 20-pin)

- AE level: -60 to 0 to +60
 Light metering system: Backlight compensation//Full/Center (Large)/Center (Small)/Slit (Large)/Slit (Small)
 Detection method: Peak/average switchable
 Master pedestal: -10 to 0 to +40
 H Enhancer: -16 to 0 to +15
 V Enhancer: -16 to 0 to +15
 Zoom: ON (×1.00 to ×3.00)/OFF switchable
 Color matrix: ON/OFF switchable
 R: -60 to 0 to +60
 G: -60 to 0 to +60
 B: -60 to 0 to +60
 Gamma: -16 to 0 to +15
 Color mode: ON/OFF switchable
 Color bars: FULL/HI/LOW/OFF switchable
 Negative/Positive reverse: ON/OFF switchable
 Menu memory: 2 pages
 Flicker canceller: AUTO/OFF switchable
 Baud rate: 19200, 9600, 4800
 Video out: VBS: 1.0 Vp-p, 75 Ω, sync negative
 Y/C: Y: 1.0 Vp-p, 75 Ω, sync negative
 C: 0.286 Vp-p, 75 Ω, at burst level
 Operating temperature: 0 to 40°C (32 to 104°F)
 Storage temperature: -20 to 60°C (-4 to 140°F)
 Power requirements: DC 12 V (Supplied from CMA-D2)
 DC 9 V (Supplied from AC-E90HG)
 5 W
 Power consumption: 5 W
 Maximum cable length: 10 m using 10 m optional cable (CCMC-16P10)
 Mass: Camera head (without lens and supplied cable): 8 g (0.3 oz)
 Camera control unit: Approx. 665 g (1 lb 7 oz)
 Connectors: Camera head: CAMERA (16-pin)
 Camera control unit: CAMERA (20-pin),
 VIDEO OUT (BNC), DC IN/VBS (12-pin, DC jack),
 Y/C (DIN 4-pin), GENLOCK (BNC), RS-232C (8-pin),
 WE OUT (PIN)

Specifications

- Image device: 1/4-inch Interline Transfer Hyper HAD CCD
 Picture elements: 768 (H) × 494 (V)
 Sensing area: 3.2 × 2.4 mm (1/4-inch)
 Video signal system: NTSC/EIA system
 Scanning system: 525 lines, 2:1 interlace
 Sync system: Internal or external with VBS
 Phase control: H (0 to +255)/SC (0/180, 0 to +255)
 Horizontal resolution: 470 TV lines
 Lens mount: Ultra mount
 Sensitivity: F5.6 at 2000 lx
 Minimum illumination: 10 lx with F1.2
 Gain control: AGC/0 to 12 dB (1 dB step) switchable
 Electronic shutter: OFF/MANUAL/AUTO
 MANUAL: 1/60, 1/100, 1/125, 1/250, 1/1000, 1/2000,
 1/4000, 1/8000, 1/10000, 1/20000, 1/40000 (seconds)
 2 to 512 fields, ODD/EVEN switchable
 S/N ratio: 46 dB
 White balance: ATW/AWB/5600 K/3200 K selectable
 (R/B paint: -128 to 0 to +128)
 AE mode: ON/OFF switchable

Dimensions



Unit: mm (inch)

4 Sensor video camera accessories

CMA-D3

Camera Adaptor for DXC-390

•Supplies DC power and transmits video/sync signal between the adaptor and the DXC-390 with CCZ-A cable and CCMC-3MZ cable •Connects with optional RM-C950 remote control unit •AC IN/DC IN

Connectors: CAMERA (26-pin MULTI)
VIDEO OUT (BNC)
SYNC IN / OUT (BNC)
TRIG INPUT (BNC)
W.E PULSE OUTPUT (BNC)
REMOTE (mini DIN 8 pin)

Power requirements:
AC 100-240V or DC
(10.5 to 15.0V)

Dimensions: 210(W) x 44(H) x 210(D) mm
(8³/₈ x 1³/₄ x 8³/₈ inches)

Supplied accessories:
Operation manual
AC cable



VIDEO
CAMERAS

CMA-H10

Camera Adaptor for DXC-H10

•Transmits DC power and video sync signals between the camera and the adaptor with a CCZ-A cable •Maximum cable length: 100 m with CCZ-A100 cable to camera •19-inch EIA standard rack mountable

Connectors: CAMERA (26-pin)
VIDEO OUT (BNC)
SYNC IN/OUT (BNC)
TRIGGER INPUT (BNC)
WE PULSE OUTPUT (BNC)
REMOTE (mini DIN 8-pin)

DC out: 15 V
Power requirements:
120 V AC, 50/60 Hz

Power consumption:
40 W (AC), 30 W (DC)
Dimensions: 210 (W) x 44 (H) x 210 (D) mm
(8³/₈ x 1³/₄ x 8³/₈ inches)
Mass: 1.4 kg (3 lb 1 oz)
Supplied accessories:
AC power cord
Operation manual



CMA-D2

Camera adaptor for DXC-9000/950390/107A/LS1

•Supplies DC power with a CCDC cable to cameras
•Transmits DC power and video/sync signals between the camera and the adaptor with a CCMC 12-pin cable
•Maximum cable length: 100 m with CCDC-100A cable/25 m with CCMC-12P25 cable
•19-inch EIA standard rack mountable

Connectors: CAMERA (12-pin MULTI)
CAMERA (4-pin DIN)
VIDEO OUT (BNC)
S VIDEO OUT (Mini DIN 4-pin)
GEN-LOCK IN (BNC)
DC out: 13 V, 1.3 A
Power requirements: AC 120 V, 50/60 Hz
Power consumption: 23 W
Dimensions: 210 (W) x 50 (H) x 200 (D) mm
(8³/₈ x 2 x 7⁷/₈ inches)
Mass: 1.1 kg (2 lb 7 oz)
Supplied accessories:
AC power cord
Operation manual



YS-W150

AC adaptor for DXC-107A

•Power supply and video/sync signal transmission by connecting to the camera with a single coaxial cable
•Internal or external synchronization with VS or AC line lock
•Extends the cable length up to 600 metres by using 7C-2V coaxial cable

Connectors: CAMERA IN (BNC)
VIDEO OUT (BNC x 2)
SYNC IN/OUT (BNC, loop-through, 75Ω ON/OFF)

Power requirements:
AC 120 V, 60Hz

Power consumption:
15 W

Operating temperature:
-10°C to 50°C (14°F to 122°F)
Maximum cable length:
300 m using RG-59B/U (3C-2V)
500 m using RG-6A/U (5C-2V)
600 m using RG-11A/U (7C-2V)
Dimensions: 212(W) x 52(H) x 330(D) mm
(8³/₈ x 2¹/₈ x 13 inches)
Mass: 1.9 kg (4 lb 3 oz)



4 Sensor video camera accessories

YS-W250

Camera adaptor for DXC-107A

•Power supply and video/sync signal transmission by connecting to the camera with a single coaxial cable •Up to four cameras can be connected •Internal or external synchronization with VS or AC line lock •Extends the cable length up to 300 meters with 5C-2V coaxial cable

Connectors: CAMERA IN 1 to 4, BNC (4)
VIDEO OUT A 1 to 4, BNC (4)
VIDEO OUT B 1 to 4, BNC (4)
SYNC IN/OUT (BNC, loop-through,
75 Ω ON/OFF switch)
Power requirements: AC 120 V, 60 Hz
Power consumption: 48 W
Dimensions: 424 (W) × 52 (H) × 330 (D) mm
(16³/₄ × 2¹/₈ × 13 inches)
Mass: 3.6 kg (7 lb 15 oz)



AC-E90HG

Camera adaptor for the DXC-LS1

•Supplies DC power to the DXC-LS1

DC out: 9 V, 800 mA
Power requirements: AC 120 V, 50/60 Hz
Power consumption: 14 W
Dimensions: 58 × 86 × 50.5 mm
(2³/₈ × 3¹/₂ × 2 inches)
Mass: 500 g (1 lb 2 oz)
Cable length: 2 m



RM-C950

Remote control unit

•Full remote control of the DXC-9000/950/H10/390 camera functions and lens zoom/focus/iris functions via RS-232C
•Facilitated operation with knob control of gain, detail, master pedestal, red and blue gain functions
•Power is supplied through the DXC-9000/950 connected to the CMA-D2 Camera Adaptor or CCU-M5 Remote Control Unit
•Power is supplied through the DXC-H10 connected to the CMA-H10 Camera Adaptor

Power requirements:
DC 12 V (supplied from
DXC-9000/950 connected to
CMA-D2 or CCU-M5)
Operating temperature:
-5 to 45°C (23 to 113°F)
Connectors: CAMERA (8-pin)
Mass: Approx. 400 g (14 oz)
Dimensions: 212 (W) × 41 (H) × 132 (D) mm
(8³/₈ × 1⁵/₈ × 5¹/₄ inches)
(excluding projecting parts and
controls)
Supplied accessories:
Connection cable (3 m) (1)
Operation manual (1)



LO-32BMT

2/3-inch lens mount adaptor for DXC-327A/9000/950

•For mounting a 2/3-inch bayonet-mount type lens on the DXC-327B/9000/950



4 Sensor video camera accessories

LO-UCMT

C-mount lens adaptor for DXC-LS1

- For mounting a C-mount type lens on the DXC-LS1

Mount: C-mount - Ultra mount
Mass: 8 g (0.3 oz)
Dimensions: $\varnothing 29$ mm x 12.9 mm
($1\frac{3}{16}$ x $\frac{17}{32}$ inches)



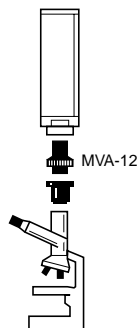
VIDEO
CAMERAS

MVA-12

Video camera microscope adaptor for DXC-107A*

- For $\frac{2}{3}$ -inch video camera with C-mount

Video camera mount: C-mount
Applicable microscope:
Biological or metallurgical microscope with straight tube
Dimensions: 48 (dia.) x 98 (L) mm
($1\frac{15}{16}$ x $3\frac{7}{8}$ inches)
Mass: 120 g (4.2 oz)



* Although the MVA-12 can also be used with the DXC-107A (1/2-inch camera), the effective viewing area is different.

MVAC-33 series

Coupler

- MVAC-33-N: For NIKON microscopes except the SMZ-10 series, MVAC-33-SM: For NIKON SMZ-10 series microscopes, MVAC-33-O: For OLYMPUS microscopes
- Used with the MVA-12/20/33/40/41A

Dimensions: MVAC-33-N:
48 (dia.) x 44 (L) mm
($1\frac{15}{16}$ x $1\frac{3}{4}$ inches)
MVAC-33-SM:
47 (dia.) x 87.5 (L) mm
($1\frac{7}{8}$ x $3\frac{1}{2}$ inches)
MVAC-33-O:
55 (dia.) x 48 (L) mm
($2\frac{1}{4}$ x $1\frac{15}{16}$ inches)
Mass: MVAC-33-N: 50 g (1.8 oz)
MVAC-33-SM: 125 g (5 oz)
MVAC-33-O: 100 g (3.6 oz)



MVAC-33-N



MVAC-33-SM



MVAC-33-O

ZBB and ZSV

Coupler

- ZBB: For Zeiss microscopes except the AXIOVERT 100/135 series and SV series
- ZSV: For Zeiss AXIOVERT 100/135 series and SV series microscopes
- Used with the MVA-12/40/41A

Dimensions: ZBB:
62 (dia.) x 110 (L) mm
($2\frac{1}{2}$ x $4\frac{3}{8}$ inches)
ZSV:
52 (dia.) x 131 (L) mm
($2\frac{1}{8}$ x $4\frac{1}{4}$ inches)



ZBB



ZSV

4 Sensor video camera accessories

MVA-40

Microscope adaptor for DXC-327B/9000/950

- For mounting the DXC-327B/9000/950 series onto various types of microscopes
- Automatic/manual light control

Dimensions: 74 (dia.) × 108 (L) mm
(max. width of 116 mm)
(3 × 4³/₈ inches)
(max. width of 4⁵/₈ inches)

Mass: 600 g (1 lb 5 oz)



MVA-41A

Microscope adaptor for DXC-327B/9000/950

- For mounting the DXC-327B/9000/950 series onto various types of microscopes

Dimensions: 50 (dia.) × 77 (L) mm
(2 × 3¹/₈ inches)

Mass: 180 g (6 oz)



MVA-690

Operation microscope adaptor (one way)

- For 2/3-inch video camera with bayonet mount
- For Carl Zeiss OPMI series/TOPCON 600 series

Video camera mount: Bayonet

Applicable microscope: Operation microscope

Dimensions: 147.5 (W) × 98.5 (H) × 50 (D) mm
(5⁷/₈ × 4 × 2 inches)

Mass: 590 g (1 lb 5 oz)



MVA-265

Operation microscope adaptor (one way) for DXC-9000/950

- For 1/2-inch video camera with bayonet mount
- For Carl Zeiss OPMI series/TOPCON 600 series

Video camera mount: Bayonet

Applicable microscope: Operation microscope

Dimensions: 148 (W) × 92 (H) × 50 (D) mm
(5⁷/₈ × 3⁵/₈ × 2 inches)

Mass: 550 g (1 lb 3 oz)



4 Sensor video camera accessories

MVA-15

Microscope adaptor for DXC-390

•For 1/3 type camera with C-mount

Dimensions: 48 (dia.) × 85.4 (L) mm
(1 15/16 × 3 3/8 inches)

Mass: 180 g (6.3 oz)



VIDEO
CAMERAS

MVA-380

Operation microscope adaptor (two way)

•For 2/3-inch video camera with bayonet mount •For Carl Zeiss OPMI series/TOPCON 600 series •Focus can be remotely controlled by the supplied remote controller

Video camera mount:
Bayonet

Applicable microscope:
Operation microscope

Dimensions: 70 (W) × 94 (H) × 184 (D) mm
(2 7/8 × 3 3/4 × 7 1/4 inches)

Mass: 750 g (1 lb 10 oz)



4 Sensor video camera accessories

LENSES FOR DXC-LS1



	VCL-04UVM	VCL-12UVM
Mount	Ultra mount	Ultra mount
Focal length	4 mm	12 mm
Maximum aperture ratio	1.4	2.0
Filter size	M10.5 × 0.5 mm	M10.5 × 0.5 mm
Back focal length	5.00 mm (IN AIR)	10.82 mm (IN AIR)
Focusing range	55 mm ~ ∞	200 mm ~ ∞
Mass	4 g (0.14 oz)	5 g (0.17 oz)
Dimensions	12 (dia.) × 14 (L) mm (½ × ⅝ inches)	12 (dia.) × 22 (L) mm (½ × ⅞ inches)

LENSES FOR DXC-9000/950 (1/2-inch Bayonet mount type)



	VCL-707BXM	S16 × 6.7BMD-D38	VCL-714BXEA	VCL-717BXEA
Mount	Bayonet	Bayonet	Bayonet	Bayonet
Focal length	7.5 to 52.5 mm	6.7 to 107 mm	7.5 to 105 mm	7 to 119 mm
Zoom ratio	7×	16×	14×	17×
Zoom control	Manual	Remote	Remote	Remote
Focus control	Manual	Remote	Remote	Remote
Iris control	Manual	Remote	Remote	Remote
Maximum aperture ratio	1.6	1.4	1.4	1.4
Minimum object distance	0.3 m	0.9 m	1.1 m	1.0 m
Macro	Not applicable	Applicable	Applicable	Not Applicable
Filter size	M58 × 0.75 mm	M77 × 0.75 mm	M72 × 0.75 mm	M86 × 1.0 mm
Mass	560 g (1 lb 4 oz)	1.25 kg (2 lb 12 oz)	1.13 kg (2 lb 6 oz)	1.7 kg (3 lb 12 oz)
Dimensions	60 (dia.) × 125 (L) mm (2½ × 5 inches)	120 (dia.) × 165 (L) mm (4¾ × 7⅝ inches)	110 (dia.) × 185.9 (L) mm (4¾ × 7⅝ inches)	107 (W) × 117 (H) × 181.5 (D) mm (4¼ × 4⅝ × 7¼ inches)
Notes	—	Zoom/Focus/Iris functions can be remotely controlled from the RM-C950		

LENSES FOR DXC-390



	VCL-610WEA	VCL-614WEA
Mount	1/3 type C-mount	1/3 type C-mount
Focal length	6.5 to 65 mm	5.5 to 77 mm
Zoom ratio	10×	14×
Zoom control	Remote	Manual/Remote switchable
Iris control	Remote	Manual/Remote switchable
Maximum aperture ratio	1.4	1.4
Minimum object distance	1.2 m	1.0 m
Macro	No	Yes
Filter thread	M52 P=0.75 mm	M62 P=0.75 mm
Mass	500 g	900 g

Video camera accessory combinations

		DXC-D30/D30WS	DXC-637	DXC-327B	DXC-9000	DXC-950	DXC-107A	DXC-LS1	DXC-H10	DXC-390
Camera control unit	CCU-TX7	○	○							
	CCU-M7	○*1	○*1	○*2						
	CCU-M5	○*5	○	○	○	○				
AC adaptor	CMA-H10								○	
	CMA-8A	○	○	○						
	CMA-D2				○	○	○	○		○
	CMA-D3									○
	YS-W250						○			
	AC-E90HG							○		
Viewfinder	DXF-701	○								
	DXF-601		○	○						
	DXF-41		○	○						
	DXF-51		○	○						
Carrying case	LC-420			○						
	LC-421	○	○							
	LC-304SFT	○	○	○						
Tripod adaptor	VCT-12			○						
	VCT-14	○	○	○						
	VCT-U14	○	○	○						
Inter-com headset	DR-100	○	○	○						
Microscope/telescope adaptor	MVA-12						○*3			
	MVAC-33	○	○	○	○	○	○			
	MVA-40			○	○	○				
	MVA-41A			○	○	○				
	MVA-265				○	○				
	MVA-690								○	
Others	DC-520	○	○	○						
	CAC-4	○	○	○						
	CAC-12	○	○	○						
	RM-M7G	○	○*1	○*2						
	CA-327	○*4	○*4	○*4						
	CA-537	○	○	○						
	CA-511	○	○	○						
	CA-512	○	○	○						
	CA-513	○	○	○						
	CA-325A	○	○	○						
	CA-325B	○	○	○						
	LO-32BMT			○	○	○				
	LO-UCMT							○		
	RM-C950				○	○			○	

○ Recommendable △ Usable

*1 Gamma control cannot be used.

*2 Knee and gamma controls cannot be used.

*3 Although the MVA-12 is the Microscope Adaptor for 2/3-inch video cameras, it can also be used with the DXC-107A. In this case, the effective viewing area is changed.

*4 Available for CA-327 models with serial No. 10271 and above.

*5 Matrix (STD, H, SAT, FL) cannot be controlled.

