SECTION 2 VIDEO CAMERAS

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1. Production video cameras

DXC-D30P series
3-chip colour video camera

• Incorporates DSP (Digital Signal Processing) technology based on the TruEye™ • Directly dockable to analogue recorders (PVV-3P and EVV-9000P) • Directly dockable to the DSR-1P 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 61dB
— 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-D30P 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 • TLC5 (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 colour bar signal • Date and time can be superimposed on the video signal • Directly dockable with the recorders from Panasonic or JVC via the CA-512AP or CA-513 • When combined with CA-537P/327P, 26/14-pin connectors provide signal output in Y/R-Y/B-Y, VBS, Y/C and RGB forms for connection with various equipment • Camera can be connected with computer equipment via CA-325A/325B camera adaptor • Adjustable shoulder pad • Monitor out function

Specifications

General

Image device: 2/3-inch Interline Transfer CCD (3)
795(H) x 596(V) total picture elements
752(H) x 582(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: PAL standard
Sync system: Internal or external with VBS or BS

Horizontal resolution: 850 TV lines

Minimum illumination: 0.5lx with F1.4, Hyper Gain (DPR+30dB)
0.8lx with F1.8, Hyper Gain (DPR+30dB)

Sensitivity: F11.0 at 2000 lx (3200K, 89.9% reflectance)(typical)
Gain selection: * DPR+18dB, +24dB, * DPR+24dB,
Hyper Gain (DPR+30dB)

S/N ratio: 61dB (typical)

Power requirements: DC12V

Power consumption: 12W (without VF/CA-537P)

Operating temperature: –10 to 45˚C (14 to 113˚F)

Mass: Approx. 2.3 kg (5 lb 1 oz, for camera head only)
Approx. 4.3 kg (9 lb 8 oz, with VF and lens, w/o lens hood)

Inputs/outputs

INTERFACE: Pro 50-pin
VIDEO OUT: BNC type
LENS: 12-pin
VF: DIN 8-pin
REMOTE: 10-pin
MONITOR OUT: BNC type

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

DXC-D30PF1 DXC-D30PK1 DXC-D30PL1 DXC-D30PH
Camera head Yes Yes Yes Yes
Camera handle Yes Yes Yes Yes
DXF-701WSCE Viewfinder Yes Yes Yes Option
External microphone Yes Yes Yes Option
VCT-U14 Tripod adaptor Yes Yes Yes Option
VCL-918BY Zoom lens Yes Yes Yes Option
LC-421 Carrying case Yes Option Option Option
RM-LG1 Logger Yes Yes Yes

Dimensions

Supplied accessories: Wind screen
Lens mount cap
Chart for flange focal
Operating instructions
1. Production video cameras

DXC-D30WSP
Wide-screen switchable colour video camera
• Aspect ratio is switchable (16:9 wide screen or 4:3) • All the functions of the DXC-D30P 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-701WSCE (incl. Mic holder) External microphone (incl. Mic. cable)
Wind Screen Tripod adaptor VCT-U14 Angle plate for the DXC-D30WSP
Lens cap Frame back chart Operation manual for the DXC-D30P
Operation manual supplement for the DXC-D30WSP
ClipLink Guide

Specifications:
Image device: 3-chip 2/3-inch, Interline-Transfer CCD
Optics: F1.4 medium index prism system
Effective picture elements: 960 × 552 (H × V)
Total picture elements: 1024 × 594 (H × V)
Sensing area: 9.6 mm × 5.4 mm
Lens mount: Sony 2/3-inch Bayonet mount
Signal system: PAL colour 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: 503TV lines (with EVS)
Minimum illumination: 0.5 lx with F1.4, Hyper gain (30dB+DPR)
0.8 lx with F1.8, Hyper gain (30dB+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: 50.3 to 201.4Hz
Signal-to-noise ratio: 61dB (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/P docked to DXC-D30WS/P
VBS: 1.0Vp-p, sync negative
Y/R-Y/B-Y: Y: 1.0Vp-p, sync negative
R-Y/B-Y: 525mVp-p
RGB: 1.4Vp-p
Y/C: Y: 1.0Vp-p, sync negative
C: 300Vp-p (burst level)

Inputs/ Outputs: INTERFACE: Pro76-pin DIGITAL_
Pro 50-pin VIDEO OUT: BNC-type MONITOR OUT: BNC-type (for UC/CE model)
RCA phono-type (for J model)

LENS: 12-pin VF: DIN 8-pin, 20-pin REMOTE 1: Stereo mini REMOTE 2: 10-pin
Power requirements: DC 12V (10.5 to 17V) 17W (with VF)
Power consumption: 14.9W (without VF) 15.3W (when docked with the DSR-1/P)
17W (with VF)
Operating temperature: -10˚C to 45˚C (23˚F to 113˚F)
Storage temperature: -20˚C to 60˚C (-4˚F to 140˚F)
Mass: 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: 121 (W) × 206 (H) × 273 (D) mm (4¾ × 8½ × 10¾ inches)
(without projections)
Note DPR is equivalent to +6dB gain up. 18dB+DPR: Equivalent to +24dB 24dB+DPR: Equivalent to +30dB
Hyper Gain (30dB+DPR): Equivalent to +36dB

Dimensions

242 (9 5/8)
164 (6 1/2)
273 (10 3/8)
258 (10 1/4)
480 (19)
1. Production video cameras

DXC-637P series
3-chip colour video camera
• PVW-637P perfect camcorder operation with the PVV-3P
• Compact size, lightweight and low power consumption
• High density three 2/3-inch IT Hyper HAD sensors, Sony's original spatial offset technology and improved electronic circuit offer superior picture quality
  — 800 TV lines of horizontal resolution
  — Excellent signal-to-noise ratio of 61dB
  — High sensitivity of F8.0 at 2000 lx
• Smear almost negligible due to the HAD sensor structure and OCL layer of the Hyper HAD sensor • The 2-dimensional optical low pass filter and Digital IE circuit suppress aliasing/spurious phenomenon • The detail limiter effectively reduces unsmooth diagonal edges appeared on highly contrasted object (Clean Detail) • 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 • EZ Mode and EZ Focus functions enable cameramen to get ready for shooting swiftly • 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 modes of matrix: STD (Standard), H.SAT (High Saturation), and FL (Fluorescent light) are provided to change the chroma saturation and hue • Three mode auto iris system: STD (Standard), BACK L (Back Light) and SPOT L (Spot Light) • Variable Speed Electronic Shutter • Supplies a 1kHz audio reference signal simultaneously with the colour bar signal • Date and time can be superimposed on the video signal • Can be used with the EVF-3 of Panasonic or JVC via the CA-512 or CA-513 • Can be combined with the recorders from Panasonic or JVC via the CA-512 or CA-513 • 26/14-pin connectors provide 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 • The VFs display PVV-3P’s status, a remarkable 600TV lines of horizontal resolution • V-DTL signal is mixed to the VF’s video signal for easy focusing (VF Super Detail) • Safety zone and centre marker indications in viewfinder • The VCL-916BYA aspherical lens allows a wider angle of view and reduced ghost and flare • 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)
816(H) × 606(V) total picture elements
786(H) × 581(V) effective picture elements
Built-in filters: 1: 3900K, 2: Cross(3200K), 3: 5600K,
4: 5600K×1/16ND
Lens mount: Bayonet-mount
Video signal system: PAL standard
Sync system: Internal or external with VBS or BS
Horizontal resolution: 800TV lines
Minimum illumination: 1 lx with F1.4, Hyper Gain (DPR+30dB)
1.5 lx with F1.8, Hyper Gain (DPR+30dB)
Sensitivity: F8.0 at 2000 lx (3200K, 89.9% reflectance)(typical)
Gain selection: –6dB, 0dB, +6dB, +12dB, +18dB, +24dB
S/N ratio: 61dB (typical)
Power requirements: DC12V
Power consumption: 10.5W (without VF/CA-537P)
Operating temperature: –10 to 45˚C (14 to 113˚F)
Mass: Approx. 2.3 kg (5 lb 1 oz, for camera head only)
Approx. 3.6 kg (7 lb 15 oz, with the CA-537P)

Inputs/outputs
INTERFACE: DIN 50-pin
VIDEO OUT: BNC type
LENS: 12-pin
VF: DIN 8-pin
REMOTE: 10-pin
MONITOR OUT: RCA type

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

Model

Composition

<table>
<thead>
<tr>
<th>Model</th>
<th>DXC-637PH</th>
<th>DXC-637PL</th>
<th>DXC-637PK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera head</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Zoom lens</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Viewfinder</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>External microphone</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Tripod adaptor</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Dimensions

With optional camera adaptor

- 164.8(4’4) 114.5(4’4)
- 451.1(14’6)
- 883.3(29’)
- 151(6)
1. Production video cameras

**DXC-327BP series**

3-chip CCD colour video camera

- Directly dockable not only with current analog VTR's/CA's but also with Digital Recorder (DSR-1P)
- 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 (470,000 total picture elements/440,000 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-1P DVCAM Digital Recorder, allowing simple ClipLink function •Can be docked directly with the PVV-1AP/3P for high quality component acquisition
- Can be combined with S-VHS recorders from Panasonic or JVC via the CA-512P or CA-513 Camera Adaptor
- When combined with CA-537P, 26-pin connector on camera adaptor provides signal output in Y/R-Y/B-Y, YBS, Y/C and RGB forms for connection with various equipment •The DXF-601CE: Diecast aluminium body, 600TV lines of horizontal resolution, the large eye cup for easy viewing, external TALLY and a new dioptre mechanism for easier dioptre adjustment •Compact size, lightweight, and low power consumption •VCL-714BX cableless 14 × zoom lens •Convenient built-in microphone •Safety Zone and Centre 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-325AP/325B Camera Adaptors, RM-M7G Remote Control Unit, and CCU-M7/M5P

**Specifications**

**General**
- Image device: 1/2-inch Interline Transfer CCD (+3), 795 (H) × 596 (V) total picture elements, 752 (H) × 582 (V) effective picture elements
- Electronic viewfinder: 1.5-inch monochrome (except DXC-327BPH)
- Lens: F1.4, 7.5 to 90mm zoom lens with auto iris/macro mechanism (DXC-327BPF/DX327BPK)
- Lens mount: Bayonet-mount
- Video signal system: PAL 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: 61dB
- 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-537P)

**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

**Dimensions**

<table>
<thead>
<tr>
<th>Composition</th>
<th>Model</th>
<th>DXC-327BPF</th>
<th>DXC-327BPK</th>
<th>DXC-327BPL</th>
<th>DXC-327BPH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour video camera head</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Tripod adaptor VCT-U14</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Option</td>
<td>Option</td>
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<tr>
<td>Viewfinder DXF-601CE</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Zoom lens VCL-714BX</td>
<td>Yes</td>
<td>Yes</td>
<td>Option</td>
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<tr>
<td>Carrying case LC-421</td>
<td>Yes</td>
<td>Option</td>
<td>Option</td>
<td>Option</td>
<td>Option</td>
</tr>
</tbody>
</table>

Unit: mm
2. Production camera accessories

**CCU-TX7P**

*Camera Control Unit*

- Triax camera control unit for the DXC-D30P and the DXC-637P
- Runs either on AC or DC (12 V) power
- High speed high quality data transmission
- High quality triax transmission
- Long distance transmission, up to 1125mm via (phi) 13.2mm cable (Belden) and up to 750m via Ø6.5mm cable (Fujikura, Belden)
- 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 x 1
- Plug holder for AC power cord x 1
- Number plate (1 set)
- Operation manual x 1

**Specifications**

**Input connectors:**
- GEN LOCK: BNC type, loopthrough, VBS/BS, 1.0Vp-p, 75ohms
- RETURN (1,2): BNC type, loopthrough, VBS, 1.0 Vp-p, 75ohms
- PROMPT (prompter): BNC type, loopthrough, VBS, 1.0 Vp-p, 75ohms
- PGM IN: XLR 3-pin x 1

**Output connectors:**
- VBS (1,2): BNC type, VBS, 1.0 Vp-p, 75ohms
- (*)Y/R-Y/B-Y (1,2): BNC type, Y: 1.0Vp-p, 75ohms
- R-Y/B-Y: 525mVp-p, 75ohms
- (*)R/G/B (1,2): BNC type, 700mVp-p, 75ohms
- (*)Y/C (1,2): BNC type, Y: 1.0Vp-p, 75ohms
- C: 300mVp-p, 75ohms
- SYNC: BNC type, VBS, 0.3 Vp-p, 75ohms, negative
- PIX (picture monitor): BNC type, 1.0 Vp-p, 75ohms
- WF (waveform monitor): BNC type, 700 mVp-p, 75ohms (Encoded output: 1.0 Vp-p, 75ohms)
- WF MODE: 4-pin x 1
- MIC OUT (CH-1/2): XLR 3-pin x 2, 0dBu~20dBu balanced, 2 channels

**Camera control:**
- CAMERA: Triax (Fischer type) x 1
- COAX: BNC type x 1
- REMOTE: 10-pin
- INTERCOM/TALLY: D-sub 25-pin x 1 4W/2W
- TALLY: 24V DC, TTL level or contact selectable
- INTERCOM (Front): XLR 5-pin x 1
- RTS: XLR 3-pin x 1
- RS232C: D-sub 25-pin x 2

**Power requirements:**
- AC 220 to 240V or DC 10.5 to 17.0V
- Power consumption: 95W 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) x 169 (H) x 415 (D) mm
- (8 5/8 x 6 3/4 x 16 3/8 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.)
**CCU-M7P**

**Camera control unit for DXC-D30P/D30WSP/637P/327BP/930P series**

- Remote Control of DXC-D30P/D30WSP/637P/327BP/930P series colour video camera with maximum cable length of 300m
- Scene File memory for up to four shooting conditions (excl. DXC-930P)
- 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

<table>
<thead>
<tr>
<th>Power requirements:</th>
<th>AC 185 to 275V, 50/60Hz</th>
</tr>
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<tbody>
<tr>
<td>Power consumption:</td>
<td>62W</td>
</tr>
<tr>
<td>Inputs/outputs:</td>
<td>VBS OUT (x2); BNC-type, 1.0Vp-p, sync negative, 75Ω</td>
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<tr>
<td></td>
<td>R/G/B OUT; BNC-type, 700mVp-p, 75Ω</td>
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<td>Y/Y-B-Y OUT; BNC-type, Y: 1.0Vp-p, sync negative, 75Ω</td>
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<td>R-Y/B-Y: 525mVp-p (75% colour bars)</td>
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<td>Y/C OUT; Y/C connector (4-pin), Y: 1.0Vp-p, sync negative, 75Ω</td>
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<td></td>
<td>C] 300mVp-p, 75Ω</td>
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<td>SYNC OUT; BNC-type, 4.0Vp-p, 75Ω, negative</td>
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<td>GENLOCK IN; BNC-type, VBS (1.0Vp-p) or BS (300mVp-p), loop through</td>
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<td></td>
<td>RET VIDEO IN; BNC-type, VBS, 1.0Vp-p, loop-through</td>
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<td>CAMERA; Sony Z-type, 26-pin</td>
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<td>TALLY/INTERCOM; DIN 4-pin or screw terminals</td>
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<td>MIC OUT; XLR-type, 3-pin, –20dBu</td>
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<tr>
<td>Control:</td>
<td>Gain select</td>
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<tr>
<td></td>
<td>Output mode select</td>
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<td>Status display ON/OFF</td>
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<td>Shutter speed select</td>
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<td>Iris (auto/manual)</td>
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<td>White balance (auto/manual/preset)</td>
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<td>R/B gain</td>
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<td>Black balance (auto/manual/preset)</td>
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<td>Master pedestal</td>
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<td>R/B pedestal*</td>
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<td>Gamma (manual/preset)</td>
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<td></td>
<td>Master gamma*</td>
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<td>R/B gamma*</td>
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<td></td>
<td>Knee point (auto/manual/preset)*</td>
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<td></td>
<td>Detail level</td>
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<td>Sub-carrier phase</td>
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<td></td>
<td>Horizontal phase</td>
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<td>Scene File operation*</td>
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<td></td>
<td>Tally/Intercom*</td>
</tr>
<tr>
<td>Operating temperature:</td>
<td>–10 to 45°C (14 to 113°F)</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>Approx. 424 (W) x 103 (H) x 387 (D) mm (16 3/4 x 4 1/8 x 15 1/4 inches)</td>
</tr>
<tr>
<td>Mass:</td>
<td>8.5 kg (18 lb 12 oz)</td>
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<tr>
<td>Supplied accessories:</td>
<td>AC power cord</td>
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<tr>
<td></td>
<td>Rack mount metals</td>
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<tr>
<td>Optional cables:</td>
<td>(CCU-M7P ↔ DXC-D30P/D30WSP/637P/327BP series) CCZ-A2 (2m)</td>
</tr>
<tr>
<td></td>
<td>CCZ-A5 (5m)</td>
</tr>
<tr>
<td></td>
<td>CCZ-A10 (10m)</td>
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<tr>
<td></td>
<td>CCZ-A25 (25m)</td>
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<tr>
<td></td>
<td>CCZ-A50 (50m)</td>
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<tr>
<td></td>
<td>CCZ-A100 (100m)</td>
</tr>
<tr>
<td>(CCU-M7P ↔ DXC-930P)</td>
<td>CCTZ-3RGB (3m) or</td>
</tr>
<tr>
<td></td>
<td>CCTZ-3YC (3m) with</td>
</tr>
<tr>
<td></td>
<td>CCZ-A cable</td>
</tr>
<tr>
<td>(CCU-M7P ↔ RM-930)</td>
<td>CCMC-1210P3 (3m)</td>
</tr>
</tbody>
</table>

* Note: When used with the DXC-930P, these items can not be controlled.
CCU-M5P
Camera control unit for DXC-D30P/D30WSP/637P/327BP/950P/930P

- Directly interfaces with both Z-type (26-pin) and Q-type (14-pin) camera systems
- Also interfaces with DXC-950P/930P via CCTZ/CCZ-A or CCTQ/CCQ-AM combination
- The focus and zoom can be also controlled by connecting RM-930 with CCMC-1210P3 cable
- 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

Specifications

- Power requirements: AC 187V to 275V, 50/60Hz
- Power consumption: 54W
- Inputs/outputs:
  - VBS OUT (x2); BNC-type, 1.0Vp-p, sync negative, 75Ω
  - R/G/B OUT; BNC-type, 700mVp-p, 75Ω
  - Y/R-Y/B-Y OUT; BNC-type, 525mVp-p (75% colour bars)
  - Y/C OUT; BNC-type, 4.0 Vp-p, 75Ω, negative
  - GENLOCK IN; BNC-type, VBS(1.0Vp-p) or BB(450mVp-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)*1
  - Black balance (auto/manual/preset)*1
  - R/B gain
  - Master pedestal
  - R/B pedestal
  - Gamma (DXC-950P/930P only)
  - Knee point (auto/manual/preset)*1,2
  - Detail level
  - Sub-carrier phase
  - Horizontal phase
  - Tally/intercom*1,2
  - Zoom (DXC-950P/930P only, by connecting RM-930 with CCMC-1210P3)
  - Focus (DXC-950P/930P only, by connecting RM-930 with CCMC-1210P3)

- Operating temperature: 5 to 40°C (41 to 104°F)
- Dimensions: Approx. 424 (W) x 103 (H) x 321 (D) mm (16 3/4 x 4 1/8 x 12 3/4 inches)
- Mass: 5.9 kg (13 lb)
- Supplied accessories: AC power cord, Rack mount brackets, Optional cables:
  - (CCU-M5P ↔ DXC-D30P/D30WSP/637P/327BP)
    - CCZ-A2 (2m)
    - CCZ-A5 (5m)
    - CCZ-A10 (10m)
    - CCZ-A25 (25m)
    - CCZ-A50 (50m)
    - CCZ-A100 (100m)
  - (CCU-M5P ↔ DXC-950P/930P)
    - CCTZ-3RGB (3m) & CCZ-A Cable
    - CCTZ-3YC (3m) & CCZ-A Cable
    - CCTQ-3RGB (3m) & CCQ-AM Cable
  - (CCU-M5P ↔ RM-930)
    - CCMC-1210P3 (3m)

Note: *1 When used with the DXC-950P, these items can not be controlled.
*2 When used with the DXC-930P, these items can not be controlled.
2. Production camera accessories

CMA-8ACE
Camera adaptor for DXC-D30P/D30WSP/637P 327BP/Betacam SP 2000 PRO camcorders, EVW series
• Supplies DC power to the Camera, VO-8800P and dockable VTRs
• Video output is selectable between composite (BNC) or Y/C separate (S-connector)

Input connector:
- 14-pin (CCQ type) for the camera
Output connectors:
- VIDEO OUT: BNC; VBS
- S-connector; Y/C
- MIC OUT: XLR 3-pin
Power requirements:
- AC 110/127/220/240V, 50/60Hz
Power consumption:
- 95W max.
Dimensions: 105(W) x 105(H) x 308(D)mm (4 1/4 x 4 1/4 x 12 1/4 inches)
Mass: 2.8 kg (6 lb 3 oz)
Supplied accessory:
- AC power cord

RM-M7G
Remote control unit for DXC-D30P/D30WSP/637P/327BP
• Compact and lightweight hand-held control unit
• For field production or video operational panel for CCU-M7P/M5P

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) x 170 (H) x 47 (D) mm (3 1/2 x 6 3/4 x 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-LG1
Remote Control Unit
• Remote controller of DXC-D30P/D30WSP 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) x 85 (W) x 12 (D) mm (1 x 3 3/8 x 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-TX7P
• 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) x 330 (H) x 70 (D) mm (4 x 13 x 2 3/4 inches)
Cable length: 50m max. (with CCA-7 cable)
Supplied accessories:
- CCA-7-5 Connecting Cable (5m)
- Number plate (1set)
- Screws and washers x 2
- Operation manual x 1
### 2. Production camera accessories

**CA-325AP**
Camera adaptor for DXC-D30P/D30WSP/637P/327BP
- Multiple outputs of R/G/B, composite sync, VBS, Y/C and AUDIO signals
- Built-in AC power unit

<table>
<thead>
<tr>
<th>Power requirements:</th>
<th>AC 220/240V, 50/60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power consumption:</td>
<td>44W</td>
</tr>
</tbody>
</table>

**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) |

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**CA-325B**
Camera adaptor for DXC-D30P/D30WSP/637P/327BP
- Multiple outputs of R/G/B, composite sync, VBS, Y/C and AUDIO signals
- DC operation type

<table>
<thead>
<tr>
<th>Power requirements:</th>
<th>DC 12V</th>
</tr>
</thead>
</table>

**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) |

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**CA-327P**
Camera adaptor for DXC-D30P/D30WSP/637P/327BP
- For interfacing DXC-D30P/D30WSP/637P/327BP with portable VTRs, CCU-M5P and CMA-8ACE
- Equips an S-connector and audio out connector
- The units with serial NO. 40100 and below can be used only with DXC-327P

<table>
<thead>
<tr>
<th>Power requirements:</th>
<th>DC 12V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inputs/outputs:</td>
<td>INTERFACE: DIN 50-pin</td>
</tr>
<tr>
<td></td>
<td>VTR/CCU/CMA: Sony Q-type, 14-pin</td>
</tr>
<tr>
<td></td>
<td>MIC IN: XLR-type, 3-pin</td>
</tr>
<tr>
<td></td>
<td>DC IN: XLR-type, 4-pin</td>
</tr>
<tr>
<td></td>
<td>GENLOCK IN; BNC-type</td>
</tr>
<tr>
<td></td>
<td>EARPHONE; mini jack</td>
</tr>
<tr>
<td></td>
<td>INTERCOM; mini intercom jack</td>
</tr>
</tbody>
</table>

| Mass: | 1.2 kg (2 lb 10 oz) |

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**CA-537P**
Camera adaptor for DXC-D30P/D30WSP/637P/327BP
- For interfacing DXC-D30P/D30WSP/637P/327BP with portable VTRs, CCU-M7P/M5P and CMA-8ACE
- Supplies mic power from MIC IN connector

<table>
<thead>
<tr>
<th>Power requirements:</th>
<th>DC 12V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power consumption:</td>
<td>1.7W</td>
</tr>
</tbody>
</table>

**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) |
2. Production camera accessories

CA-511
Camera adaptor for DXC-D30P/D30WSP/637P/327BP
• Allows a BVV-5PS to be coupled with a DXC-D30P/D30WSP/637P/327BP

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-50P/50AP series camera adaptors.

CA-512P
Camera adaptor for DXC-D30P/D30WSP/637P/327BP
• Allows an AG-7450 Panasonic S-VHS video tape recorder to be coupled with a DXC-D30P/D30WSP/637P/327BP

Power requirements:
- DC 12V
Power consumption:
- 0.35W
Input/outputs:
- INTERFACE; 50-pin
- 68-pin
Mass:
- 0.7 kg (1 lb 9 oz)

CA-TX7P
Camera Adaptor
• Camera Adaptor for the DXC-D30P/D30WSP/637P 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-D30P/D30WSP, such as DXF-701CE/701WSCE/51/41. (This function is not available with the DXC-637P)

Supplied accessory:
- Operation manual x 1
Input/output connectors:
- CCU: Triax (Fischer type) x 1
- CAMERA: Pro 76P Digital or Pro 50P switchable
- MIC IN (CH-1/2): XLR 3-pin x 2, 600ohms, balanced
- Input level: Mic in: –60dB
- Line in: –20dB
- DC IN: XLR 4-pin x 1, 10.5V to 17V
- DC OUT: 4-pin x 1, 10.5V to 17V, Max 12W
- PROMPTER OUT: BNC type x 1, 1.0Vp-p, 75ohms
- RETURN OUT: BNC type x 1, 1.0Vp-p, 75ohms
- INTERCOM/PROGRAMME: XLR 5-pin x 1 (for Headset) Input level: -50dBs (dynamic)
- Output level: ÂĄ to 12dBs
- DATA OUT: 10-pin x 1
- DC 0 to 5V (analogue) x 4
- DC 0 or 5V (digital) x 2
- Power requirements
  - DC 120V (from Triax connector) or DC 12V (10.5 to 17.0V) (from DC IN connector)

Power consumption

<table>
<thead>
<tr>
<th></th>
<th>DC 120V</th>
<th>DC 12V</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA-TX7P only</td>
<td>10.5W</td>
<td>7.5W</td>
</tr>
<tr>
<td>w/DXC-D30P, DXF-701WSCE</td>
<td>11.2W</td>
<td>7.5W</td>
</tr>
<tr>
<td>w/DXC-D30P, DXF-51</td>
<td>12.3W</td>
<td>7.5W</td>
</tr>
</tbody>
</table>

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) x 221 (W) x 131 (D) mm (9 × 8 3/4 × 5 1/4 inches)

(Note: This product is not available in some countries.)
2. Production camera accessories

CA-513
Camera adaptor for DXC-D30P/D30WSP/637P/327BP
• Allows a BR-S422E JVC S-VHS video tape recorder to be coupled with a DXC-D30P/D30WSP/637P/327BP

Power requirements:
DC 12V
Power consumption:
0.15W
Input/outputs: INTERFACE: 50-pin × 2
Mass: 0.69 kg (1 lb 8 oz)

COU-TX7
Camera Operational Unit
• Operational Panel of the CCU-TX7P
• Can be attached to form a part of the front panel of the CCU-TX7P
• Supports basic control of camera operation and painting
• Useful when using the CCU-TX7P 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.)

DXF-501CE
High resolution 1.5-inch electronic viewfinder for EVW-300P, DXC-637P/327BP, UVW-100BP (monochrome)
• Supplied with the EVW-300PK/300PL
• Quick start CRT
• Sophisticated diopter design

Picture tube: 1.5-inch 50° deflection
Horizontal resolution: 550 lines (centre)
Power requirements: DC 12V, supplied from a camera
Power consumption: 2.3W
Mass: Approx. 500 g (1 lb 2 oz)
Dimensions: Approx. 182 (W) × 64 (H) × 189 (D) mm
(7 1/4 × 2 5/8 × 7 1/2 inches)

DXF-601CE
High resolution 1.5-inch electronic viewfinder for DXC-637P/327BP, UVW-100BP (monochrome)
• Supplied with DXC-637PK/637L, PVW-637PK/637PL, DXC-327BPF/327BPK/327BPL, UVW-100BPF/100BPK/100BPL
• Rugged, diecast aluminium body
• Large eye cup size
• Peak volume control
• High horizontal resolution of 600TV lines
• Quick start CRT

Picture tube: 1.5-inchmonochrome
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 3/4 × 2 1/2 × 8 5/8 inches)
2. Production camera accessories

DXF-701WSCE
High resolution 1.5-inch electronic viewfinder for DXC-D30P/D30WSP (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 3/8 × 3 1/4 × 8 5/8 inches)

DXF-41
4-inch electronic viewfinder for DXC-D30P/D30WSP/637P/327BP, UVW-100BP, EVW-300P (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 1/4 × 4 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)

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 CUC operations • 20-pin connector for DXC-D30P/D30WSP • DIN 8-pin connector for DXC-327BP/637P 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 × 7 3/4 × 8 1/2 inches) including projecting parts and controls

DC-520
Battery adaptor for DXC-D30P/D30WSP/637P/327BP, UVW-100BP, EVW-300P
- For attaching two NP-1B battery packs to the DXC-D30P/D30WSP/637P/327BP, UVW-100BP, EVW-300P

Dimensions: Approx. 100 (W) × 195 (H) × 44 (D) mm (4 × 7 3/4 × 1 3/4 inches)
Mass: Approx. 230 g (8 oz)
2. Production camera accessories

DR-100
Intercommunication headset
•Used in the DXC-D30P/D30WSP/637P/327BP, UVW-100BP, CCU-M5P/M7P, SEG-2550AP/2000AP
•With mini type 4-pole plug
Mass: 105 g (3.7 oz)

LC-421
Carrying case for DXC-D30P/D30WSP/637P, DXC-327BP, UVW-100BP
•Can hold the DXC-D30P/D30WSP/637P/327BP in camcorder configuration with DSR-1P/PVV-1AP/PVV-3P/EVV-9000P
•Supplied with the PVW-637PK/637PL, PVW-D30F, DSR-130PF, UVW-100BP
Dimensions: Approx. 790 (W) x 440 (H) x 340 (D) mm
(31⅞ x 17⅝ x 13⅞ inches)
Mass: 7.7 kg (17 lb)

LC-304SFT
Soft carrying case for DXC-D30P/D30WSP/637P/327BP, EVW-300P, UVW-100BP
•Can hold DXC-D30P/D30WSP/637P/327BP in camcorder configuration with DSR-1P/BVV-5PS/PVV-1AP/PVV-3P/EVV-9000P
•Lightweight for easy transportation
Dimensions: Approx. 720 (W) x 360 (H) x 286 (D) mm
(28⅜ x 14⅜ x 11⅞ inches)
Mass: 2.2 kg (4 lb 14 oz)

LCR-1
Camera rain cover for DXC-D30P/D30WSP/637P/327BP, EVW-300P, UVW-100BP camcorders
•Can be used for the DXC-D30P/D30WSP/637P/327BP, in camcorder configuration with DSR-1P/BVV-5PS/PVV-1AP/PVV-3P/EVV-9000P
•Transparent material used to operate camera and VTR switches with the LCR-1 on
Mass: 260g (9 oz)
2. Production camera accessories

CAC-12
Camera microphone holder
•Adjustable microphone direction
•For attaching the ECM-672/670 or the C-74 condensor microphone to the DXC-D30P/D30WSP/637P/327BP, EVW-300P and UVW-100BP

CAC-4
Chest pad for DXC-D30P/D30WSP/637P/327BP, EVW-300P, UVW-100BP
•Provides more stable camera operation
•Attachable to the VCT-12/14/U14 tripod adaptors directly
Mass: Approx. 185 g (7 oz)

VCT-14
Tripod adaptor for DXC-D30P/D30WSP/637P/327BP, UVW-100BP
•To attach the DXC-D30P/D30WSP/637P/327BP and UVW-100BP to a tripod
•Adjustable camera position with screws
Dimensions: Approx. 282 (W) × 27 (H) × 80 (D) mm
(11 1/8 × 1 1/8 × 3 1/4 inches)
Mass: Approx. 900 g (2 lb)

VCT-U14
Tripod adaptor for DXC-D30P/D30WSP/637P/327BP, UVW-100P
•Adjustable camera position with screws
Dimensions: 282 (W) × 27 (H) × 80 (D) mm
(11 1/8 × 1 1/8 × 3 1/4 inches)
Mass: Approx. 900 g (2 lb)
2. Production camera accessories

RMM-1800
Rack-mounting metal
• This mounting adaptor is used for installing the DXF-41 and CMA-8ACE into a 19-inch EIA standard rack which provides a clean and organized arrangement for studio system

Dimensions: 482 (W) x 136.2 (H) x 223 (D) mm
(19 x 5½ x 8½ inches)
Mass: 3.1 kg (6 lb 13 oz)
Supplied accessories:
Blank panel x 2

RMM-TXC7
Rack Mount Kit
• Allows two CCU-TX7P 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) x 177 (H) x 380 (D) mm
(19⅞ x 7 x 15 inches)
Supplied accessories:
Installation manual x 1
Blank panel x 1
(Note: This product is not available in some countries.)

RMM-TXR7
Rack Mount Kit
• Up to four RCP-TX7P 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) x 75 (H) x 354 (D) mm
(19 x 3 x 14 inches)
Supplied accessories
Installation manual x 1
Blank panel x 2
(Note: This product is not available in some countries.)

LO-32BMT
2/3-inch lens mount adaptor for DXC-327AP/9100P/950P/930P and EVW-300P
• For mounting a 2/3-inch bayonet-mount type lens on the DXC-327BP/9100P/950P/930P and EVW-300P
2. Production camera accessories

**MVA-40**
Microscope adaptor
• For mounting the DXC-327BP/9100P/950P/930P series onto various types of microscopes
• Automatic/manual light control

Dimensions: 74 (dia.) × 108 (L) mm
(max. width of 116 mm)
(3 × 4 3/8 inches)
(max. width of 4 5/8 inches)
Mass: 600 g (1 lb 5 oz)

**MVA-41A**
Microscope adaptor
• For mounting the DXC-327BP/9100P/950P/930P series onto various types of microscopes

Dimensions: 50 (dia.) × 77 (L) mm
(2 × 3 1/8 inches)
Mass: 180 g (6 oz)

**LO-23**
Flexible cable unit
• Servo zooming and manual focusing for Fujinon Lens, such as VCL-916BYA and VCL-714BX

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

MS-21 (by Canon)
Remote controller
•Servo zooming and manual focusing
2. Production camera accessories

**VSF-2000D** (by Heiwa)

**Tripod/dolly**

- Suitable for DXC-D30P/D30WSP/637P/327BP, EVW series, UVW-100BP
- For studio use
- Equipped with two panning rods

Minimum/Maximum height:
700 mm/1400 mm
(27 3/4 inches/55 1/8 inches)
(without dolly)
Load capacity: 15 kg (33 lb 1 oz)
Mass: 10.5 kg (22 lb 2 oz) with dolly

**VSF-L-20** (by Heiwa)

**Carrying bag for VSF-2000D**

Mass: 3.5 kg (7 lb 11 oz)

---

**LIBEC 50SD** (by Heiwa)

**Tripod/dolly/carrying case**

- Suitable for DXC-D30P/D30WSP/637P/327BP, EVW series, UVW-100BP
- Convenient brace as a standard equipment
- For field use
- Equipped with two extendable panning rods

Minimum/maximum height:
925 mm/1495 mm
(36.4 inches/58.9 inches)
Load capacity: 10 kg (22 lb)
Mass: 9 kg (19 lb 8 oz)
Supplied accessories: Dolly carrying bag, Panning rods, Spreader

**LIBEC 60SD**

**LIBEC 70SD** (by Heiwa)

**Tripod/dolly/carrying bag/spreader**

- Suitable for DXC-D30P/D30WSP/637P/327BP, EVW series, UVW-100BP
- High efficiency and high performance equipped with patented counter balanced tilting system
- For field use
- Equipped with two extendable panning rods

Minimum/maximum height:
60SD: 810 mm/1580 mm
(31.9 inches/62.2 inches)
70SD: 820 mm/1595 mm
(32 3/8 inches/62 7/8 inches)
(without dolly)
Load capacity: 60SD: 13 kg (29 lb)
70SD: 15 kg (33 lb 1 oz)
Mass: 60SD: 11 kg (24 lb 10 oz)
70SD: 11.2 kg (24 lb 5 oz)
Supplied accessories: Dolly, Carrying bag, Panning rods, Spreader

**LIBEC 80SD** (by Heiwa)

**Tripod/dolly/carrying case**

- Suitable for DXC-D30P/D30WSP/637P/327BP, EVW series, UVW-100BP, etc.
- Serial drag and counter balance system
- Recommended for field use
- Equipped with two extendable panning rods

Minimum/maximum height:
560 mm/1645 mm
(22 inches/64.7 inches)
Load capacity: 17 kg (37 lb)
Mass: 13 kg (26 lb 1 oz)
Supplied accessories: Dolly, Carrying bag, Panning rods, Spreader
LIBEC 70PD (by Heiwa)

PEDESTAL SYSTEM

- Suitable for DXC-D30P/D30WSP/637P/327BP, EVW series, UVW-100BP
- Air can be pumped into a column even while a camera is mounted on the pedestal
- Highly suitable for small studios, event halls, and hospitals

Minimum/maximum height: 955 mm/1710 mm (37 3/8 inches/67 1/2 inches)
Load capacity: 30 kg (66 lb 2 oz)
Mass: 21 kg (46 lb 5 oz)
Supplied accessories: Pedestal, Head, Pan handles, Scenario plate, Low angle adapter
2. Production camera accessories

**System 14** (by Sachtler)

**Video 14/75 Fluid head/Tripod S14 long/Spreader SP14/Cover 14pan**
- Suitable for DXC-D30P/D30WSP/637P327BP, EVW aeries, UVW-100BP, etc.
- The patented Sachtler damping system ensures jerk free, precise and smooth camera movement, over a wide temperature range between \(-40^\circ C\) \((-40^\circ F\)) to \(60^\circ C\) \((140^\circ F)\)
- Equipped with two panning bars

Minimum/Maximum height: 790 mm/1540 mm
(31 1/8 inches/60 3/4 inches)

Load capacity: 15 kg (33 lb 1 oz)
Mass: 8 kg (17 lb 10 oz)

Supplied accessories: Spreader, two pan bars, carrying cover

**Optional accessory:**

**Dolly 14II Code No. 7051**
- The camera becomes mobile with the Dolly 14II for the studio use
- Can be compactly folded together by pressing a button and carried by using the built in handle

Mass: 4.4 kg (9 lb 11 oz)

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**System 18 Plus ENG 2 MCF** (by Sachtler)

**Video 18 Plus Fluid head/Tripod ENG 2 CF/Off-ground spreader/Rubber feet/Padded bag**

ENG 2
- Suitable for DXC-D30P/D30WSP/637P327BP, EVW aeries, UVW-100BP, etc.
- New Video 18 Plus head has an illuminated bubble, Touch & Go camera lock for one hand operation, a tilt range of 180˚ under any load and many other extras
- With the two stage carbon fibre tripod and off-ground spreader, this system offers the optimum for any portable camera
- Equipped with two extendable pan bars

Minimum/maximum height: 580 mm/1665 mm
(22.8 inches/65.6 inches)

Load capacity: 25 kg (55 lb)
Mass: 9.5 kg (20 lb 15 oz)

Temperature range: \(-40\) to \(60^\circ C\) \((-40\) to \(140^\circ F)\)

Supplied accessories: Off-ground spreader, Rubber feet, Two pan bars, Padded bag

**Optional accessory:**

**Dolly S Code No. 7065**
- Through the angle lock of the spinning wheel and the independent wheel brake, defined circles and precise parallel movements can be made
- For studio use
- Can be folded together and easily carried with it's built in handle

Mass: 4.45 kg (9 lb 13 oz)
2. Production camera accessories

Caddy System 01
Code No. CAD01 (by Sachtler)

• Suitable for DXC-D30P/D30WSP/637P/327BP, EVW series, UVW-100BP, etc.
• The patented Sachtler damping system ensures jerk free, precise and smooth camera movement, over a wide temperature range
• Equipped with one pan arm, 7+7 step fluid damping
• Sachtler flip switch fast balancing system
• Touch & Go quick camera locking system with a sliding range of 60mm

Minimum/Maximum height: 810 mm/1580 mm
(31.9 inches to 62.3 inches)
Load capacity: 12 kg (26.4 lb)
Mass: 7.1 kg (15.6 lb)
Supplied accessories:
  Carbon fiber tripod, CF100long
  Lightweight spreader, SP100
  Transport cover, Cover 100
2. Production camera accessories

**Vision 5-ST Package**  
*(by Vinten)*  
**Head/Tripod/Spreader/Soft Bag**  
• The high quality original “perfect-balance” system  
• Suitable for DXC-D30P/D30WSP/637P/327BP, EVW series, UVW-100BP  
Minimum/maximum height:  
534 mm/1704 mm  
(21 inches/67 inches)  
(with spreader)  
Load capacity:  
9 kg (20 lb)  
Mass:  
8.0 kg (17 lb 10 oz) (with bag)  
Tilt range:  
+85˚−75˚  
Supplied accessories:  
Spreader, Soft bag  
Optional accessory:  
Lightweight dolly (3319-3ST)

**Vision 10-ST Package**  
*(by Vinten)*  
**Head/Tripod/Spreader/Soft Bag**  
• The high quality original “perfect-balance” system  
• Suitable for DXC-D30P/D30WSP/637P/327BP, EVW series, UVW-100BP  
Minimum/maximum height:  
549 mm/1719 mm  
(21 5/8 inches/67 7/8 inches)  
Load capacity:  
14 kg (30 lb 14 oz)  
Mass:  
8.3 kg (18 lb 5 oz) (with bag)  
Tilt range:  
+90˚−90˚  
Supplied accessories:  
Spreader, Soft bag  
Optional accessory:  
Lightweight dolly (3319-3ST)

**PRO-130/7GP**  
*(by Vinten)*  
**Head/Tripod/Spreader/Soft Bag**  
• Suitable for light-weight cameras/camcorders, such as DSR-200P and UVW-100BP  
• Low-cost tripod system with smooth pan/tilt operation  
Minimum/maximum height:  
580 mm/1450 mm  
(22 7/8 inches/57 1/8 inches)  
Load capacity:  
8 kg (17 lb 10 oz)  
Mass:  
2.3 kg (5 lb 1 oz)  
Tilt range:  
±85˚  
Pan range:  
360˚  
Package configuration:  
PH130 Fluid Pan/Tilt Head  
3451-3 Tripod  
PS165 Spreader  
Soft case

**PRO-130/10GP**  
*(by Vinten)*  
**Head/Tripod/Spreader/Soft Bag**  
• Suitable for cameras/camcorders such as DSR-130P and PVW-D30P.  
• Low-cost tripod system with smooth pan/tilt operation  
Minimum/maximum height:  
580 mm/1450 mm  
(22 7/8 inches/57 1/8 inches)  
Load capacity:  
10 kg (22 lb 0.7 oz)  
Mass:  
2.3 kg (5 lb 1 oz)  
Tilt range:  
±85˚  
Pan range:  
360˚  
Package configuration:  
PH130 Fluid Pan/Tilt Head  
3451-3 Tripod  
PS165 Spreader  
Soft case
# 2. Production camera accessories

**LENSES FOR DXC-D30P/D30WSP/637P, PVW-D30P/637P and DSR-130P camcorder**  
(2/3-inch Bayonet mount type, 12-pin connector)

<table>
<thead>
<tr>
<th>Model</th>
<th>J9a x 5.2BIRS</th>
<th>J15a x 8BIRS</th>
<th>VJ16 x 9BIRS</th>
<th>J20a x 8BIRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image format</td>
<td>2/3-inch</td>
<td>2/3-inch</td>
<td>2/3-inch</td>
<td>2/3-inch</td>
</tr>
<tr>
<td>Mount</td>
<td>Sony bayonet</td>
<td>Sony bayonet</td>
<td>Sony bayonet</td>
<td>Sony bayonet</td>
</tr>
<tr>
<td>Focal length</td>
<td>5.2 to 47 mm</td>
<td>8 to 119 mm</td>
<td>9 to 162 mm</td>
<td>8 to 160 mm</td>
</tr>
<tr>
<td>Zoom ratio</td>
<td>9x</td>
<td>18x</td>
<td>18x</td>
<td>20x</td>
</tr>
<tr>
<td>Iris control</td>
<td>Auto &amp; manual</td>
<td>Auto &amp; manual</td>
<td>Auto &amp; manual</td>
<td>Auto &amp; manual</td>
</tr>
<tr>
<td>Maximum aperture ratio</td>
<td>1.8</td>
<td>1.7</td>
<td>1.8</td>
<td>1.7</td>
</tr>
<tr>
<td>Minimum object distance</td>
<td>0.3 m</td>
<td>0.65 m</td>
<td>0.9 m</td>
<td>0.9 m</td>
</tr>
<tr>
<td>Zoom extender</td>
<td>2.0x</td>
<td>2.0x</td>
<td>2.0x</td>
<td>2.0x</td>
</tr>
<tr>
<td>Macro</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Filter size</td>
<td>52 mmø</td>
<td>82 mmø</td>
<td>82 mmø</td>
<td>82 mmø</td>
</tr>
<tr>
<td>Mass</td>
<td>1.8 kg (3.97 lb)</td>
<td>1.4 kg (3 lb 2 oz)</td>
<td>1.5 kg (3 lb 2 oz)</td>
<td>1.75 kg (3 lb 14 oz)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>250.94 mm(L) (10 inches)</td>
<td>266.9 mm(L) (10¾ inches)</td>
<td>194.9 mm(L) (7¾ inches)</td>
<td>232.6 mm(L) (9⅜ inches)</td>
</tr>
<tr>
<td>Note</td>
<td>By Canon</td>
<td>By Canon</td>
<td>By Canon</td>
<td>By Canon</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Model</th>
<th>A10 x 4.8BEVM-28</th>
<th>A12 x 6.8BRM-58</th>
<th>A15 x 8BEVM-28B</th>
<th>VCL-918BYA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image format</td>
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<td>2/3-inch</td>
<td>2/3-inch</td>
<td>2/3-inch</td>
</tr>
<tr>
<td>Mount</td>
<td>Sony bayonet</td>
<td>Sony bayonet</td>
<td>Sony bayonet</td>
<td>Sony bayonet</td>
</tr>
<tr>
<td>Focal length</td>
<td>4.8 to 48 mm</td>
<td>6.8 to 82 mm</td>
<td>8 to 120 mm</td>
<td>9 to 144 mm</td>
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<tr>
<td>Zoom ratio</td>
<td>10x</td>
<td>12x</td>
<td>16x</td>
<td>16x</td>
</tr>
<tr>
<td>Iris control</td>
<td>Auto &amp; manual</td>
<td>Auto &amp; manual</td>
<td>Auto &amp; manual</td>
<td>Auto &amp; manual</td>
</tr>
<tr>
<td>Maximum aperture ratio</td>
<td>1.8</td>
<td>2.5</td>
<td>1.7</td>
<td>1.8</td>
</tr>
<tr>
<td>Minimum object distance</td>
<td>0.3 m</td>
<td>0.5 m</td>
<td>0.75 m</td>
<td>0.9 m</td>
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<tr>
<td>Zoom extender</td>
<td>2.0x</td>
<td>2.0x</td>
<td>2.0x</td>
<td>2.0x</td>
</tr>
<tr>
<td>Macro</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Filter size</td>
<td>127 mmø</td>
<td>95 mmø</td>
<td>82 mmø</td>
<td>77 mmø</td>
</tr>
<tr>
<td>Mass</td>
<td>1.85 kg (4.0 lb)</td>
<td>1.38 kg (3.0 lb)</td>
<td>1.38 kg (3 lb 1 oz)</td>
<td>1.2 kg (2 lb 10 oz)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>244 mm(L) (9½ inches)</td>
<td>196 mm(L) (7¾ inches)</td>
<td>189 mm(L) (7½ inches)</td>
<td>165 mm(L) (6½ inches)</td>
</tr>
<tr>
<td>Note</td>
<td>By Fujinon</td>
<td>By Fujinon</td>
<td>By Fujinon</td>
<td>By Fujinon</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>A16 x 9BERM-28</th>
<th>A20 x 8BEVM-28B</th>
<th>VCL-918BY</th>
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</thead>
<tbody>
<tr>
<td>Image format</td>
<td>2/3-inch</td>
<td>2/3-inch</td>
<td>2/3-inch</td>
</tr>
<tr>
<td>Mount</td>
<td>Sony bayonet</td>
<td>Sony bayonet</td>
<td>Sony bayonet</td>
</tr>
<tr>
<td>Focal length</td>
<td>9 to 144 mm</td>
<td>8 to 160 mm</td>
<td>9 to 162 mm</td>
</tr>
<tr>
<td>Zoom ratio</td>
<td>16x</td>
<td>20x</td>
<td>20x</td>
</tr>
<tr>
<td>Iris control</td>
<td>Auto &amp; manual</td>
<td>Auto &amp; manual</td>
<td>Auto &amp; manual</td>
</tr>
<tr>
<td>Maximum aperture ratio</td>
<td>1.8</td>
<td>1.7</td>
<td>1.8</td>
</tr>
<tr>
<td>Minimum object distance</td>
<td>0.9 m</td>
<td>0.85 m</td>
<td>0.9 m</td>
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<tr>
<td>Zoom extender</td>
<td>2.0x</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Macro</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Filter size</td>
<td>77 mmø</td>
<td>95 mmø</td>
<td>95 mmø</td>
</tr>
<tr>
<td>Mass</td>
<td>1.35 kg (3 lb)</td>
<td>1.75 kg (3.8 lb)</td>
<td>1.3 kg (2.7 lb)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>183.8 mm(L) (7½ inches)</td>
<td>225.5 mm(L) (9 inches)</td>
<td>171.5 mm(L) (6¾ inches)</td>
</tr>
<tr>
<td>Note</td>
<td>By Fujinon</td>
<td>By Fujinon</td>
<td>By Canon</td>
</tr>
</tbody>
</table>
2. Production camera accessories

LENSES FOR DXC-327BP, UVW-100BP
(1/2-inch Bayonet mount type, Hot-shoe connector)

<table>
<thead>
<tr>
<th></th>
<th>VCL-714BX</th>
<th>VCL-713BX</th>
<th>YH14 x 7.3KRS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Image format</strong></td>
<td>1/2-inch</td>
<td>1/2-inch</td>
<td>1/2-inch</td>
</tr>
<tr>
<td><strong>Mount</strong></td>
<td>Sony 1/2-inch bayonet</td>
<td>Sony 1/2-inch bayonet</td>
<td>Sony bayonet</td>
</tr>
<tr>
<td><strong>Focal length</strong></td>
<td>7.5 to 105 mm</td>
<td>7.5 to 97.5 mm</td>
<td>7.3 to 102 mm</td>
</tr>
<tr>
<td><strong>Zoom ratio</strong></td>
<td>14X</td>
<td>13X</td>
<td>14X</td>
</tr>
<tr>
<td><strong>Iris control</strong></td>
<td>Manual &amp; motorized</td>
<td>Manual &amp; motorized</td>
<td>Manual &amp; motorized</td>
</tr>
<tr>
<td><strong>Maximum aperture ratio</strong></td>
<td>1.4</td>
<td>1.4</td>
<td>1.4</td>
</tr>
<tr>
<td><strong>Minimum object distance</strong></td>
<td>1.1 m</td>
<td>1.0 m</td>
<td>1.0 m</td>
</tr>
<tr>
<td><strong>Filter size</strong></td>
<td>72 mmø</td>
<td>72 mmø*</td>
<td>82 mmø</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>186 mm(L) (7 1/2 inches)</td>
<td>147.5 mm(L) (5 3/4 inches)</td>
<td>184 mm(L) (7 5/16 inches)</td>
</tr>
<tr>
<td><strong>Mass</strong></td>
<td>11 kg (2 lb 6 oz)</td>
<td>910 g (2 lb)</td>
<td>1.0 kg (2.2 lb)</td>
</tr>
<tr>
<td><strong>Lens connector</strong></td>
<td>Hot-shoe type</td>
<td>Hot-shoe type</td>
<td>Hot-shoe type</td>
</tr>
</tbody>
</table>

*82mmø Filter is also usable by fitting it in the lens hood.

LENSES FOR DXC-327BP, UVW-100BP
(1/2-inch Bayonet mount type, Hot-shoe connector)

<table>
<thead>
<tr>
<th></th>
<th>S16 × 6.7BRM-18</th>
<th>S16 × 6.7BERM-18</th>
<th>YH17 × 7 KRS</th>
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<tbody>
<tr>
<td><strong>Image format</strong></td>
<td>1/2-inch</td>
<td>1/2-inch</td>
<td>1/2-inch</td>
</tr>
<tr>
<td><strong>Mount</strong></td>
<td>Sony 1/2-inch bayonet</td>
<td>Sony 1/2-inch bayonet</td>
<td>Sony 1/2-inch bayonet</td>
</tr>
<tr>
<td><strong>Focal length</strong></td>
<td>6.7 to 107mm</td>
<td>6.7 to 107mm</td>
<td>7 to 119mm</td>
</tr>
<tr>
<td><strong>Zoom ratio</strong></td>
<td>16X</td>
<td>16X</td>
<td>17X</td>
</tr>
<tr>
<td><strong>Iris control</strong></td>
<td>Auto &amp; manual</td>
<td>Auto &amp; manual</td>
<td>Auto &amp; manual</td>
</tr>
<tr>
<td><strong>Maximum aperture ratio</strong></td>
<td>1.4</td>
<td>1.4</td>
<td>1.4</td>
</tr>
<tr>
<td><strong>Minimum object distance</strong></td>
<td>0.9m</td>
<td>0.9m</td>
<td>0.95m</td>
</tr>
<tr>
<td><strong>Filter size</strong></td>
<td>77mmø</td>
<td>77mmø</td>
<td>82mmø</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>185.5mm(L) (7 3/8 inches)</td>
<td>185.5mm(L) (7 3/8 inches)</td>
<td>185.9mm(L) (7 3/8 inches)</td>
</tr>
<tr>
<td><strong>Mass</strong></td>
<td>1.25kg (2 lb 10 oz)</td>
<td>1.35kg (3 lb)</td>
<td>1.45kg (3 lb 3 oz)</td>
</tr>
<tr>
<td><strong>Lens connector</strong></td>
<td>Hot-shoe type</td>
<td>Hot-shoe type</td>
<td>Hot-shoe type</td>
</tr>
</tbody>
</table>

Notes: By Fujinon, By Canon, By Canon
3. Sensor video cameras

**DXC-H10**

2/3 inch 3-CCD Color Video Camera

*(not available in Europe)*

- 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 • 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)

**Supplied Accessories:**
- Lens mount cap (1)
- Name sheet for the buttons on the RM-C950 (1)
- Operating Instructions (1)

**Optional Accessories:**
- Camera Adapter CMA-H10
- Remote Control Unit RM-C950
- Digital Scan Converter DSC-1024
- Camera Cable CCZ-A2/A5/A10/A25/A50/A100
- Microscope adaptors and couplers MVA-690/20/33, 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:** 1000TV lines
- **Min. 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 9,000K) (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:** 3200K/5600K switchable
- **Electronic Shutter:**
  - CCD IRIS: Automatic exposure control (within range of 1/100-1/100000 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)
- **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

**Color temperature:** 3200K/5600K switchable

**Electronic Shutter:**
- **CCD IRIS:** Automatic exposure control (within range of 1/100-1/100000 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)**

**Power supply:** 15 V DC (10.5 to 15 V)

**Power consumption:** Approx. 25 W

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

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

**Dimensions:** 95 (W) × 95 (H) × 160 (D) mm (3¾ x 3¾ x 6½ inch)

**Mass:** 1.2 kg (2 lb 10 oz)
## DXC-LS1P

**CCD Colour Video Camera**

- Extremely small and compact camera composed of a camera head and a camera control unit
- 1/4-inch Hyper HAD CCD adoption
- High picture quality with 460TV lines, a high sensitivity of F5.6 at 2000 lx and an excellent signal-to-noise ratio
- Advanced color matrix function allows you to adjust R, G and B colours independently for accurate colour reproduction
- Easy call-up function of favorite settings (2 patterns)
- Exchangeable camera head
- AE control function (A CCD IRIS function combined AGC) provides automatic control over incoming light
- Automatic backlight adjustment
- Built-in electronic zoom function (x1.00 to x3.00)
- Four-pattern Light Metering System with selectable detection method
- Alternative White Balance Control modes - AWB, ATW, 5600K or 3200K (Trimming with R/B paint function is possible with AWB, 5600K and 3200K)
- Shutter speed control for long term exposure
- With variable gamma function, the contrast of the picture can be changed for a clear view
- Enhancer 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 colour noise
- Built-in RS-232C interface
- Genlock capability with VBS
- Y/C or VBS output
- Optional CMA-D2CE or AC-E90HG can be used for power supply

### Supplied Accessories:
- Camera cable (3m)
- Tripod adaptor (1)
- Lens mount cap (1)
- Operation manual (1)

### Specifications

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<tr>
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<th>1/4-inch Interline Transfer Hyper HAD CCD</th>
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<td></td>
<td>2 to 512 fields, ODD/EVEN switchable</td>
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<tr>
<td>R</td>
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<tr>
<td>G</td>
<td>–60 to 0 to +60</td>
</tr>
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<td></td>
<td>C: 0.3Vp-p, at burst level, 75Ω</td>
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<tr>
<td>Operating temperature</td>
<td>0°C to 40°C (32°F to 104°F)</td>
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<td>Storage temperature</td>
<td>–20°C to 60°C (–4°F to 140°F)</td>
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<td>Power requirements</td>
<td>DC 12V (Supplied from CMA-D2CE)</td>
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<td></td>
<td>DC 9V (Supplied from AC-E90HG)</td>
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<tr>
<td>Mass</td>
<td>Camera head (without lens and supplied cable) : 8g (0.3 oz)</td>
</tr>
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<td></td>
<td>Camera control unit : Approx. 665g (1 lb 7 oz)</td>
</tr>
<tr>
<td>Connectors</td>
<td>Camera head : CAMERA (16-pin)</td>
</tr>
<tr>
<td></td>
<td>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)</td>
</tr>
</tbody>
</table>

### Dimensions

![Dimensions Diagram](image)
3. Sensor video cameras

DXC-9100P

3-CCD Colour Video Camera

• Progressive scan 3-CCD camera featuring full-frame dynamic image capturing • Square picture pixels adoption (8.3µm x 8.3µm) for more accurate measurements • Three alternative signal output capability - Normal mode and Frame shutter mode (2:1 interface) and Non-interlaced mode • High picture quality with 800TV lines, a high sensitivity of F5.6 at 2000lx and an excellent S/N ratio of 57dB • By utilizing the built-in frame memory, freeze function (continuous freeze mode or source/freeze mode is selectable) and long term exposure function can be controlled without external equipment • Three-pattern Light Metering System with selectable detection method • Remote control from the optional RM-C950 Remote Control Unit or CCU-M5P Camera Control Unit is possible • Built-in RS-232C interface • On-screen four divided menu with User Preset function for easy set-up • Digital control CCD IRIS function (equivalent to four F-stops) and AGC automatically adjusts a wider 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) • Variable speed electronic shutter such as External Trigger Shutter, Clear Scan function in addition to the conventional eight-step selection • RGB output via a 9-pin D-sub connector • Y/C or VBS output can be selected from the 9-pin D-sub connector • 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-D2CE can be used for power supply

Supplied Accessories: Lens mount cap (1) Operation manual (1) Buttons label for the optional RM-C950 Remote Control Unit

Specifications

Image device: 1/2-inch Interline Transfer Hyper HAD CCD (x3) Picture elements: 782(H) x 582(V) Sensing area: 6.4 x 4.8 mm Scanning system: PAL standard format : 625 lines, 2:1 interlace Non-interlaced format : 31.25kHz Vertical frequency: PAL standard format : 50Hz Non-interlaced format : 50Hz Sync system: Internal or external with VBS, BS, VS, SYNC or HD/VD Phase control: H (-99 to 0 to +99) / SC (0/180, -99 to 0 to +99) Green-on-sync: ON/OFF switchable Horizontal resolution: 800TV lines Vertical resolution: 575TV lines Lens mount: 38 mm bayonet mount Sensitivity: 2000 lx with F5.6 (3200K) Minimum illumination: 15 lx (F1.4, +18dB) Signal-to-noise ratio: 57dB Gain control: AGC / 0 to 18dB (1dB steps) switchable Electronic shutter: OFF/STEP/VARIABLE/CCD IRIS selectable STEP : 1/50, 1/120*, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 (seconds) 0.1, 0.2, 0.3, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0 (seconds) VARIABLE : 255 to 1 frame, 312/625 to 1/625H AE Window: Large/Medium/Spot (Peak/average switchable) Colour temperature: 3200K/5600K White balance: ATW, AWB (R/B Paint : -10 to 0 to +10) MANU (R/B Gain : -127 to 0 to +127) External trigger shutter: INT, CTRL/EXT, CTRL switchable Master pedestal: -99 to 0 to +99 Detail: ON/OFF switchable (-99 to 0 to +99) Gamma: ON/OFF switchable User preset: A/B switchable User protect: ON/OFF switchable Baud rate: 9600, 4800, 2400, 1200 Trigger pulse: Negative pulse/Positive pulse switchable

Dimensions

Unit: mm (inch)

* Flickerless mode
3. Sensor video cameras

DXC-950P
3-chip CCD colour video camera

• Multi-purpose 3-CCD compact camera for versatile industrial video applications • Newly developed 1/2-inch IT Power HAD sensor CCDs • High horizontal resolution of 750TV lines • Extremely high sensitivity of F8.5 at 2000 lx • Excellent signal-to-noise ratio of 58dB • Excellent colour reproduction • Convenient operational functions including Flash Synchronization and Three-pattern Light Metering System • Various precise picture controls • Selectable Camera Control mode • Remote control from the optional RM-C950/RM-930 Remote Control Unit or CCU-M5P Camera Control Unit • 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 level • 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 (11H for Clear Scan or 1 frame step for long term exposure) in addition to the conventional 8-step speed selection

Specifications

Image device: 1/2-inch Interline Transfer Power HAD CCD (>3)
Picture elements: 752(H) x 582(V)
Sensing area: 6.4mm x 4.8mm
Video signal system: PAL standard
Scanning system: 625 lines, 2:1 interlace
Video signal system: 625 lines, 2:1 interlace
Horizontal resolution: 750TV lines
Lens mount: 38 Bayonet mount
Sensitivity: 2000 lx with F8.5
Minimum illumination: 6.5 lx (F1.4)
Gain control: AGC/0 to 18dB (1dB step)/ISO (400, 800, 1600)
Electronic shutter: OFF/1/50s/STEP/Long Exp./C. Scan switchable
Step: 1/120(FL), 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
C. Scan: 310/625 to 1/625(H), OFF
CCD IRIS control: ON/OFF switchable
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: 58dB

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
Fine: -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: 1.0Vp-p, 75Ω, sync negative
RGB: 0.7Vp-p, 75Ω
Y/C: Y: 1.0Vp-p, 75Ω, sync negative
R-Y: 0.525Vp-p, 75Ω
C: 0.3Vp-p, 75Ω, without sync
Y/R-Y/B-Y: Y: 1.0Vp-p, 75Ω
R-Y: 0.525Vp-p, 75Ω
C: 0.3Vp-p, 75Ω
Operating temperature: -5 to 45°C (23 to 113°F)
Storage temperature: -20 to 60°C (-4 to 140°F)
Power requirements: DC 12V (supplied from CMA-D2CE or CCU-M5P)
Power consumption: 7.8W
Mass: Approx. 670g (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)

Dimensions

-97-
3. Sensor video cameras

DXC-930P
3-chip CCD colour video camera
• Multi-purpose 3-CCD compact camera for various industrial video applications
• High density three 1/2-inch IT Hyper HAD sensor CCDs offer superior picture quality:
  — High horizontal resolution of 720TV lines
  — High sensitivity of F5.0 at 2000 lx
  — Excellent signal-to-noise ratio of 56dB
  — Excellent colour reproduction
• Various built-in camera function controls • Field or frame
  integration mode selectable • Remote control from the optional RM-930 Remote Control Unit or CUC-M5P/M7P Camera Control Unit • Long distance control of lens zoom/focus functions is possible by connecting CUC-M5P/M7P with RM-930 • Control menu can be displayed in characters on the monitor • Digital control CCD IRIS function (equivalent to three F-stops) automatically adjusts the incoming light levels • AGC or 1dB step Gain control • Automatic or manual (R/B gain level adjustment) white balance control mode • Minutely controlled electronic shutter speed—Manual speed selection (1H or 1 frame step) in addition to the conventional 8-step speed selection

Supplied accessories: Lens mount cap Operation manual
Image device: 1/2-inch Interline Transfer Hyper HAD CCD (>3)
Picture elements: 752(H) × 582(V)
Sensing area: 6.4mm × 4.8mm
Video signal system: PAL standard
Scanning system: 625 lines, 2:1 interlace
Sync system: Internal or external with VBS or BS
Horizontal resolution: 720TV lines
Lens mount: 38 Bayonet mount
Sensitivity: 2000 lx with F5.0
Minimum illumination: 19 lx (F1.4, +18dB)
Gain control: AGC/0 to 18dB (1dB step) switchable
Electronic shutter: OFF (1/50s)/STEP/MANU switchable
  STEP: 1/120(FL), 1/125, 1/250, 1/500, 1/1000,
  1/2000, 1/4000, 1/10000 (seconds)
  MANU: 255 to 1 frames (for field mode),
  256 to 2 frames (for frame mode),
  OFF, 310/625 to 1/625(H)
CCD IRIS control: ON/OFF switchable
White balance: AUTO/MANUAL (R/B gain: −99 to 0 to 99) selectable

Lens is optional

Signal-to-noise ratio: 56dB (Gamma:OFF, DTL:OFF)
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
Green-on-sync: ON/OFF switchable
Video out:
  VBS: 1.0Vp-p, 75Ω, sync negative
  RGB: 0.7Vp-p, 75Ω
  Y/C: Y: 1.0Vp-p, 75Ω, sync negative
  C: 0.3Vp-p, 75Ω, without sync
Operating temperature: −5 to 45°C (23 to 113°F)
Storage temperature: −20 to 60°C (−4 to 140°F)
Power requirements: DC 12V
(supplied from CMA-D2DCE or CUC-M5P/M7P)
Power consumption: 7.8W
Mass: Approx. 670g (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), CUC (20-pin)

Dimensions

Unit: mm (inch)
3. Sensor video cameras

**DXC-151AP**

**CCD colour video camera**

- RGB camera for image processing
- High resolution 2/3-inch IT Hyper HAD CCD, together with a primary colour G stripe R/B sequential filter, offers 460 TV lines (VBS or Y/C output) or 440 TV lines (RGB output) of horizontal resolution and superior colour reproduction
- Signal-to-noise ratio of 46 dB
- RGB output via a 9-pin D-sub connector
- S-video (Y/C) output is available through the CMA-D2CE camera adaptor (connected to the camera via 12-pin multi-connector or 9-pin D-sub connector)
- Composite signal output via a BNC, 9-pin D-sub or 12-pin connector
- 3-position selectable CCD IRIS covers various light conditions—BACKLIGHT/STANDARD/SPOTLIGHT
- Genlock capability with VBS or BS signals
- Four alternative white balance control:
  - Automatic control modes—AWB (Auto White Balance)/ATW (Auto Tracing White), Preset modes—INDOOR (3200K)/OUTDOOR (5600K)
  - Variable speed electronic shutter
  - C-mount adoption
- Remarkably compact and lightweight

**Supplied accessories:**
- Lens connector
- Lens mount cap
- Operating instruction manual

**Optional accessories:**
- Camera adaptor CMA-D2CE
- DC cable CCDC-5/10/25/50A/100A (5/10/25/50/100m)
- 12-pin Multi cable CCMC-12P02/05/10/25 (2/5/10/25m)
- RGB cable CCXC-9DD (9-pin D-sub ↔ 9-pin D-sub)
- RGB cable CCXC-9DB (9-pin D-sub ↔ 5BNC’s)
- RGB cable CCMC-9DS (9-pin D-sub ↔ 4BNC’s, DIN 4-pin)
- Microscope adaptor MVA-12
- Coupler for NIKON microscopes except the SMZ-10 series MAC-33-N
- Coupler for NIKON SMZ-10 series microscopes MAC-33-SM
- Coupler for OLYMPUS microscopes MAC-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
- Manual zoom lens VCL-1106YM (11.5 to 69mm, F1.4)

**Specifications**

- **Image device:** 2/3-inch Interline Transfer Hyper HAD CCD
- **Picture elements:** 756 (H) × 581 (V)
- **Sensing area:** 8.8 mm × 6.6 mm
- **Video signal system:** PAL standard
- **Sync system:** Internal or external with VBS or BS
- **Horizontal resolution:** 460 TV lines (VBS or Y/C output) or 440 TV lines (RGB output)
- **Lens mount:** C mount (Back focus adjustable)
- **Sensitivity:** F5.6 at 2,000 lx
- **Minimum illumination:** 13 lx with F1.4 (+12 dB)
- **Gain control:** 0, +6, +12 dB, AGC selectable
- **Electronic shutter:** OFF, 1/120 (FL), 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 (seconds)
- **S/N ratio:** 46 dB
- **Phase control:** H/SC phase control
- **CCD IRIS control:** BACKLIGHT/STANDARD/SPOTLIGHT 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, C: 0.3 Vp-p, 75 Ω
- **Power requirement:** DC 12 V supplied from CMA-D2CE
- **Power consumption:** 7 W
- **Maximum cable length:** 100 m using CCDC-100A DC cable and CMA-D2CE
- **White balance:** AUTO: ATW or AWB
  - PRESET: 3200 K or 5600 K
- **Mass:** Approx. 595 g (1 lb 2 oz) without lens
3. Sensor video cameras

**DXC-107AP**

**CCD colour video camera**

- High resolution 1/2-inch IT Hyper HAD sensor CCD offers high quality picture
- High sensitivity in minimum illumination of only 4.5 lx with F1.2 lens
- Signal-to-noise ratio of 46dB
- High horizontal resolution of 460TV lines
- S-video output is available through the CMA-D2CE Camera Adaptor
- Four alternative white balance control: Automatic control modes—AWB (Auto White Balance)/ATW (Auto Tracing White), Preset modes—INDOOR (3200K)/OUTDOOR (5600K)
- 3-position selectable CCD-IRIS covers various light conditions—BACKLIGHT/STANDARD/SPOTLIGHT
- Variable speed electronic shutter
- Built-in four digit ID number generator
- C-mount adoption
- External genlock capability of VS
- Together with the CMA-D7CE/YS-W250P Camera Adaptor, video and sync signals, and DC power can be transmitted up to 300 metres away through a single SC-2V coaxial cable
- Remarkably compact and lightweight

**Supplied accessories:**
- Lens connector
- Lens mount cap
- Operating instruction manual

**Optional accessories:**
- Camera adaptor CMA-D7CE
- Camera adaptor CMA-D2CE
- Camera adaptor YS-W250P
- DC cable CCDC-5/10/25/50A/100A
- 12-pin multi-core cable CCMC-12P02/05/10/25
- 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 InterlineTransfer Hyper HAD CCD
- **Picture elements:** 752 × 582 (V)
- **Sensing area:** 6.4mm × 4.8mm
- **Video signal system:** PAL standard
- **Sync system:** Internal or external with VS
- **Horizontal resolution:** 460TV lines
- **Lens mount:** C mount
- **Sensitivity:** F5.6 at 2,000 lx (AGC off)
- **Minimum illumination:** 4.5 lx with F1.2 (AGC on)
- **Gain control:** AGC ON/OFF switchable
- **Electronic shutter:** OFF, 1/120(FL), 1/250, 1/1000, 1/2000, 1/4000, 1/10000 (seconds)
- **S/N ratio:** 46dB
- **CCD IRIS control:** BACKLIGHT/STANDARD/SPOTLIGHT switchable
- **Phase control:** H phase control
- **Video out:**
  - VBS: 1.0Vp-p, 75Ω, sync negative
  - Y/C: Y: 1.0Vp-p, 75Ω, sync negative
  - C: 0.3Vp-p, 75Ω, without sync
- **Operating temperature:** 0 to 40°C (32 to 104°F)
- **Power requirements:** DC 12V from CMA-D2CE/D7CE
- **DC 28V from CMA-D7CE/YS-W250P**
- **Power consumption:**
  - 3.3W using CCMC-12P multi-core cable or CCDC DC cable (DC 12V)
  - 6.3W using coaxial cable (DC 28V)
- **Maximum cable length:** 300m using SC-2V coaxial cable and CMA-D7CE/YS-W250P
  - 100m using CCDC-100A DC cable and CMA-D2CE
  - 25m using CCMC-12P25 multi-core cable and CMA-D2CE/D7CE
- **White balance:**
  - AUTO: ATW or AWB
  - PRESET: 3200K or 5600K
- **Mass:** Approx. 360g (12.7 oz) without lens
- **Connectors:**
  - DC IN/VIDEO OUT (BNC)
  - DC IN (12-pin)
  - LENS (4-pin)
4. Sensor camera accessories

CMA-D2CE
Camera adaptor for DXC-9100/950P/930P/151AP/107AP/LS1P
• 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 cable
• Maximum cable length: 100m with CCDC-100A cable
25m 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 (MIN DIN 4-pin)
GEN-LOCK IN (BNC)

DC out: 13V, 1.3A
Power requirements:
AC 100 to 240V, 50/60Hz
Power consumption:
24.5W
Dimensions: 210(W) x 50(H) x 200(D)mm
(Mass: 1.1kg (2 lb 7 oz)
Supplied accessories:
AC power cord
Operation manual

CMA-D7CE
Camera adaptor for DXC-107AP
• Power supply and video/sync signal transmission by connecting to DXC-107AP with a single coaxial cable
• Maximum cable length: 300m with 5C-2V cable
25m with CCMC-12P25 cable

Connectors: CAMERA IN 1 to 4 (BNC x 4)
VIDEO OUT A 1 to 4 (BNC x 4)
VIDEO OUT B 1 to 4 (BNC x 4)
SYNC IN/OUT (BNC, loop-through, 75Ω ON/OFF switch)

Power requirements:
AC 220 to 240V, 50Hz
Power consumption:
48W
Dimensions: 424(W) x 52(H) x 330(D)mm
(16⅞ x 2⅞ x 13 inches)
Mass: 3.6kg (7 lb 15 oz)
Supplied accessories:
AC power cord
Operation manual

YS-W250P
AC adaptor for DXC-107AP
• 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 300m with 5C-2V coaxial cable

Connectors: CAMERA IN 1 to 4 (BNC x 4)
VIDEO OUT A 1 to 4 (BNC x 4)
VIDEO OUT B 1 to 4 (BNC x 4)
SYNC IN/OUT (BNC, loop-through, 75Ω ON/OFF)

Power requirements:
AC 220 to 240V, 50Hz
Power consumption:
48W
Dimensions: 424(W) x 52(H) x 330(D)mm
(16⅞ x 2⅞ x 13 inches)
Mass: 3.6kg (7 lb 15 oz)
Supplied accessories:
AC power cord
Operation manual

RM-C950
Remote control unit
• Full remote control of the DXC-9100P/950P 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 • A printer button is provided
• Power is supplied through the DXC-9100P/950P connected to the CMA-D2CE Camera Adaptor or CCU-MSP Remote Control Unit

Power requirements:
DC 12V (supplied from DXC-9100P/950P connected to CMA-D2CE or CCU-MSP)
Operating temperature: -5 to 45°C (23 to 113°F)
Connectors: CAMERA (8-pin)

Control:
IRIS (AUTO/MANUAL)
ZOOM
FOCUS
COLOUR BAR
MENU DISPLAY
GAIN (STEP/AGC/ISO)
SHUTTER SPEED
(OFF/STEP/LONG)
EXP/C SCAN/CCD IRIS
AE WINDOW
(LARGE/MEDIUM/SPOT)
FIELD/FRAME
(INTEGRATION MODE)
COLOUR TEMPERATURE
(WHITE BALANCE)
AUTO/MANUAL/ATW
LINEAR MATRIX
SHADING COMPENSATION
MASTER PEDESTAL
DETAIL
H. PHASE
SC PHASE
FINE
GAMMA
KNEE

G. SYNC
MEMORY BANK
MEMORY PROTECT
DATA SEND
D-SUB OUTPUT (VBS/Y/C, RGB/COMPONENT)
BAUD RATE
FLASH
PRINTER TRIGGER

Mass: Approx. 400g (14 oz)
Dimensions: 212(W) x 41(H) x 132(D)mm
(8⅞ x 2⅛ x 5⅛ inches)
Supplied accessories:
Connection cable (3m)
Operation manual
4. Sensor camera accessories

RM-930
Remote control unit
• Full remote control of the DXC-930P/950P camera functions and lens zoom/focus/iris functions
• Long distance control (up to 300m) of zoom and focus function of lens by connecting CCU-M5P with CCMC-1210P3
• DC operation capability with the optional CMA-D2CE Camera Adaptor
• Usable cables

<table>
<thead>
<tr>
<th>DXC-930P/950P/RM-930</th>
<th>RM-930/CMA-D2CE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCMC-12Pable</td>
<td>CCMC-12P or CDDC cable</td>
</tr>
<tr>
<td>CCMC-12P02/05/10/25</td>
<td>CCMC-5/10/25/50A</td>
</tr>
<tr>
<td>CCMC-12P02/05/10</td>
<td>CCMC-12P02/05/10/25</td>
</tr>
<tr>
<td>CCMC-12P25</td>
<td>CCMC-12P02/05/10</td>
</tr>
</tbody>
</table>

Power requirements:
DC 12V (supplied from CMA-D2CE)
Operating temperature:
−5 to 45°C (23 to 113°F)

LO-UCMT
C-mount adaptor for DXC-LS1P
• For mounting C-mount type lens on the DXC-LS1P

<table>
<thead>
<tr>
<th>MVA-12</th>
<th>Video camera microscope adaptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video camera mount: C-mount</td>
<td></td>
</tr>
<tr>
<td>Applicable microscope: Biological or metallurgical microscope with straight tube</td>
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<tr>
<td>Dimensions: 48(dia.) × 98(L)mm (11/16 × 31/4 inches)</td>
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<tr>
<td>Mass: 120g (4.2 oz)</td>
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</tbody>
</table>

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

MVA-20
Microscope adaptor with Auto Iris
• For 2/3-inch video camera with bayonet mount

<table>
<thead>
<tr>
<th>MVA-20</th>
<th>Microscope adaptor with Auto Iris</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video camera mount: Bayonet</td>
<td></td>
</tr>
<tr>
<td>Applicable microscope: Biological or metallurgical microscope</td>
<td></td>
</tr>
<tr>
<td>Dimensions: 74(dia.) × 116(W) × 104(L)mm (3 × 4 1/4 × 4 1/4 inches)</td>
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</tr>
<tr>
<td>Mass: 600g (1 lb 5 oz)</td>
<td></td>
</tr>
</tbody>
</table>
4. Sensor camera accessories

MVA-33
Microscope adaptor
• For 2/3-inch video camera with bayonet mount

- Video camera mount: Bayonet
- Applicable microscope: Biological or metallurgical microscope
- Dimensions: 55(dia.) x 100(L)mm
  (2 1/4 x 4 inches)
- Mass: 250g (9 oz)

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

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

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-12/20/33/40/41A

- Dimensions: ZBB:
  62(dia.) x 110(L)mm
  (2 1/2 x 4 3/8 inches)
ZSV:
  52(dia.) x 131(L)mm
  (2 1/8 x 4 1/4 inches)

MVA-40
Microscope adaptor
• For mounting the DXC-327BP/9100P/950P/930P series onto various types of microscopes
• Automatic/manual light control

- Dimensions: 74 (dia.) x 106(L)mm
  (max. width of 116 mm)
  (3 x 4 3/8 inches)
- Mass: 600 g (1 lb 5 oz)
4. Sensor camera accessories

MVA-41A
Microscope adaptor
• For mounting the DXC-327BP/9100P/950P/930P series onto various types of microscopes

Dimensions: 50(dia.) × 77(L) mm
(2 × 3 3/4 inches)
Mass: 180g (6 oz)

MVA-265
Operation microscope adaptor (one way)
• For 1/2-inch video camera with bayonet mount (DXC-9100P/950P/930P)
• For Carl Zeiss OPMI series/TOPCON 600 series

Video camera mount: Bayonet
Applicable microscope: Operation microscope
Dimensions: 148(W) × 92(H) × 52(D) mm
(5 7/8 × 3½ × 2 inches)
Mass: 550g (1 lb 3 oz)

MVA-365
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: 80(W) × 154(H) × 86(D) mm
(3¼ × 6¼ × 3½ inches)
Mass: 650g (1 lb 7 oz)

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
(2¾ × 3¾ × 7¼ inches)
Mass: 750g (1 lb 10 oz)
4. Sensor camera accessories

RM-S2/S5 series (by Fujinon)
Remote controller
• RM-S2 series for servo zooming and focusing
• RM-S5 series for servo zooming and manual focusing
  RM-S2 series: RM-S2C/S2D
  RM-S5 series: RM-S5D
4. Sensor camera accessories

LENSES FOR DXC-151AP (2/3-inch C mount type)

<table>
<thead>
<tr>
<th></th>
<th>J10 × 10REA-IA-II*</th>
<th>VCL-1106YM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mount</strong></td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td><strong>Focal length</strong></td>
<td>10 to 110mm</td>
<td>11.5 to 69mm</td>
</tr>
<tr>
<td><strong>Zoom ratio</strong></td>
<td>10×</td>
<td>6×</td>
</tr>
<tr>
<td><strong>Zoom control</strong></td>
<td>Remote</td>
<td>Manual</td>
</tr>
<tr>
<td><strong>Iris control</strong></td>
<td>Auto</td>
<td>Manual</td>
</tr>
<tr>
<td><strong>Maximum aperture ratio</strong></td>
<td>1.4</td>
<td>1.4</td>
</tr>
<tr>
<td><strong>Filter size</strong></td>
<td>62mm</td>
<td>46mm</td>
</tr>
<tr>
<td><strong>Supplied accessory</strong></td>
<td>Remote control box CC-8T-II, MD cable (10m)</td>
<td>—</td>
</tr>
<tr>
<td><strong>Mass</strong></td>
<td>Lens: 700g (1 lb 9 oz)</td>
<td>CC-8T-II: 1.3kg (2 lb 14 oz)</td>
</tr>
<tr>
<td></td>
<td>CC-8T-II: 1.3kg (2 lb 14 oz)</td>
<td>410g (14 oz)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>80(W) × 70(H) × 122.3(D)mm</td>
<td>58(da.) × 107.8(L)mm (2⅞ × 4⅜ inches)</td>
</tr>
<tr>
<td><strong>Power requirements</strong></td>
<td>AC100/117/220/240V, 50/60Hz (CC-8T-II)</td>
<td>—</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
<td>By Canon</td>
<td>By Canon</td>
</tr>
</tbody>
</table>

* Auto-iris control by the E-E amps, which are installed in the lenses, makes the J10 × 10REA-IA-II particularly suitable for multi-camera operation by a single remote control box.

LENSES FOR DXC-151AP (2/3-inch C mount type)

<table>
<thead>
<tr>
<th></th>
<th>J10 × 10R-II</th>
<th>J10 × 10REA-II</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mount</strong></td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td><strong>Focal length</strong></td>
<td>10 to 110mm</td>
<td></td>
</tr>
<tr>
<td><strong>Zoom ratio</strong></td>
<td>10×</td>
<td></td>
</tr>
<tr>
<td><strong>Zoom control</strong></td>
<td>Remote</td>
<td></td>
</tr>
<tr>
<td><strong>Iris control</strong></td>
<td>Remote</td>
<td></td>
</tr>
<tr>
<td><strong>Maximum aperture ratio</strong></td>
<td>1.4</td>
<td></td>
</tr>
<tr>
<td><strong>Filter size</strong></td>
<td>62mm</td>
<td></td>
</tr>
<tr>
<td><strong>Supplied accessory</strong></td>
<td>Remote control box CC-8T-II, MD cable (10m)</td>
<td>—</td>
</tr>
<tr>
<td><strong>Mass</strong></td>
<td>Lens: 700g (1 lb 9 oz)</td>
<td>CC-8T-II: 1.3kg (2 lb 14 oz)</td>
</tr>
<tr>
<td></td>
<td>CC-8T-II: 1.3kg (2 lb 14 oz)</td>
<td>410g (14 oz)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>80(W) × 70(H) × 122.3(D)mm</td>
<td>58(da.) × 107.8(L)mm (2⅞ × 4⅜ inches)</td>
</tr>
<tr>
<td><strong>Power requirements</strong></td>
<td>AC100/117/220/240V, 50/60Hz (CC-8T-II)</td>
<td>—</td>
</tr>
<tr>
<td><strong>Notes</strong></td>
<td>By Canon</td>
<td></td>
</tr>
</tbody>
</table>

CC-8T-II (Supplied to J10 × 10R-II, PH10 × 8REA-IA-II)
Dimensions: 170(W) × 45(H) × 130(D)mm
(6⅞ × 1⅝ × 5⅜ inches)
4. Sensor camera accessories

LENSES FOR DXC-107AP (1/2-inch C mount type)

<table>
<thead>
<tr>
<th>Mount</th>
<th>PH10 × 8REA-IA-II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focal length</td>
<td>8 to 80mm</td>
</tr>
<tr>
<td>Zoom ratio</td>
<td>10x</td>
</tr>
<tr>
<td>Iris control</td>
<td>Auto</td>
</tr>
<tr>
<td>Maximum aperture ratio</td>
<td>1.2</td>
</tr>
<tr>
<td>Filler size</td>
<td>62mm</td>
</tr>
<tr>
<td>Supplied accessory</td>
<td>Remote control box CC-8T-II, MD cable (10m)</td>
</tr>
<tr>
<td>Mass</td>
<td>Lens: 700g (1 lb 9 oz)</td>
</tr>
<tr>
<td></td>
<td>CC-8T-II: 1.3kg (2 lb 14 oz)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>70(W) × 80(H) × 126.6(D)mm (2¾ × 3½ × 5 inches)</td>
</tr>
<tr>
<td>Power requirements</td>
<td>AC100/117/220/240V, 50/60Hz (CC-8T-II)</td>
</tr>
<tr>
<td>Notes</td>
<td>By Canon</td>
</tr>
</tbody>
</table>

LENSES FOR DXC-950P/930P (1/2-inch Bayonet mount type)

<table>
<thead>
<tr>
<th>Mount</th>
<th>Bayonet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focal length</td>
<td>7.5 to 52.5mm</td>
</tr>
<tr>
<td>Zoom ratio</td>
<td>7x</td>
</tr>
<tr>
<td>Iris control</td>
<td>Manual</td>
</tr>
<tr>
<td>Maximum aperture ratio</td>
<td>1.6</td>
</tr>
<tr>
<td>Minimum object distance</td>
<td>0.3m</td>
</tr>
<tr>
<td>Macro</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Filter size</td>
<td>M58 × 0.75mm</td>
</tr>
<tr>
<td>Dimensions</td>
<td>60(da.) × 125(L)(mm (2¼ × 5 inches)</td>
</tr>
<tr>
<td>Notes</td>
<td>Zoom/Focus/Iris functions can be remotely controlled from the RM-C950/930</td>
</tr>
</tbody>
</table>
# Video camera accessory combinations

<table>
<thead>
<tr>
<th>Camera control unit</th>
<th>CCU-TX7P</th>
<th>CCU-MTP</th>
<th>CCU-M5P</th>
<th>CMA-8ACE</th>
<th>CMA-D2CE</th>
<th>CMA-D7CE</th>
<th>YS-W250P</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC adaptor</td>
<td></td>
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<tr>
<td>CCU-M7P</td>
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<tr>
<td>CCU-M5P</td>
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<td>CMA-8ACE</td>
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<td>CMA-D2CE</td>
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<td>YS-W250P</td>
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<tr>
<td>Viewfinder</td>
<td>DXF-701CE</td>
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<td>DXF-501CE</td>
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<td>DXF-40BCE</td>
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<td>DXF-50BCE</td>
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<tr>
<td>Carrying case</td>
<td>LC-420</td>
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<tr>
<td>LC-421</td>
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<td>LC-304SFT</td>
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<tr>
<td>Tripod adaptor</td>
<td>VCT-12</td>
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<td>VCT-14</td>
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<td>VCT-U14</td>
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<tr>
<td>Medical microscope/endoscope adaptor</td>
<td>MVA-12</td>
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<tr>
<td>MVA-20</td>
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<td>MVA-33</td>
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<td>MVA-40</td>
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<td>MVA-41A</td>
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<td>MVA-265</td>
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<tr>
<td>MVA-365</td>
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<tr>
<td>MVA-380</td>
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<tr>
<td>Microscope accessories</td>
<td>DC-520</td>
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*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-C1/107AP. In this case, the effective viewing area is changed.
*4 Available for CA-327P models with serial No. 40101 and above.
*5 Matrix (STD, H.SAT, FL) cannot be controlled.

- Recommendable  - Usable