

Digital Camcorder



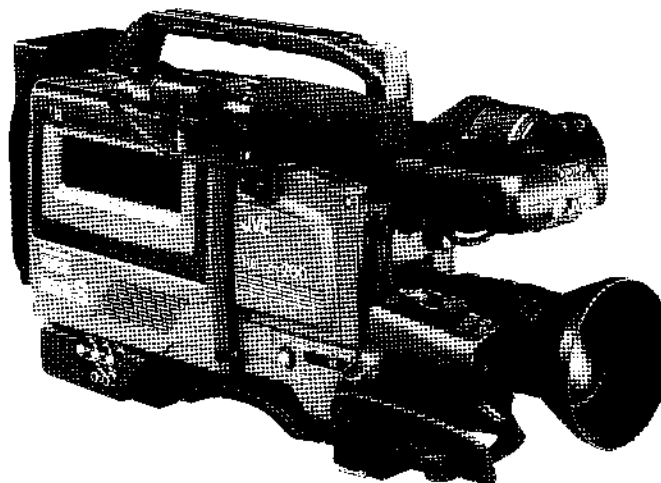
DY-700E



- Most economical 4:2:2 camcorder in the world
- Professional and practical, rugged and high quality 50 Mbps, 8-bit, 4:2:2 component D-9 recording
- 8.5 kilograms including typical lens, viewfinder, battery and tape
- 34 watts power requirement while recording
- Viewfinder status overlay for essential information such as audio levels, remaining recording time and battery information such as voltage, VTR operation, and setup.

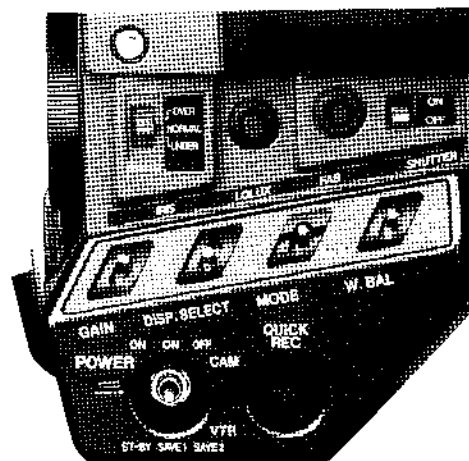
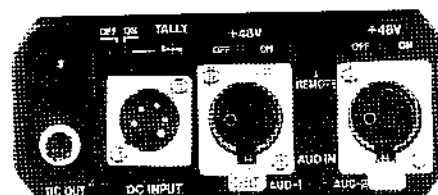
Imaging

- Three 1/2" 440K pixel IT micro lens CCDs with virtually no vertical CCD smear.
- High sensitivity of F8 at 2000 lux
- Quick recording mode sets automatic shooting for level control via both variable gain and variable shutter
- Lolux mode provides excellent colour balance down to 1.5 lux at F1.4.
- Horizontal resolution is 750 TV lines.
- 60 dB signal to noise ratio
- Variable Scan View captures flicker-free images from computer and monitor CRTs, even if the scan rate differs from the camcorder frame rate.
- Continuous Auto Black samples the CCD's optical black for perfect black balance without interrupting shooting



D-9 Recording

- Up to 124 minutes uninterrupted recording
- Two 16-bit 48 kHz PCM audio channels
- Robust 1/2 inch metal particle cassettes
- Automatic editing function (AEF) for smooth cuts
- 10 x picture search in both directions
- Quick review function
- Colour video playback
- Phantom power supply for microphone inputs
- Built-in monitor speaker and earphone jack
- Analogue composite video and audio output
- EBU time code generator with external input and output, external lock, jam sync and seamless time code between takes.
- Large LCD display indicates time code, modes and functions
- Fully menu configurable
- Tape/Battery remaining indication
- Rugged die cast chassis using ceramic tape guide rollers and sapphire flanges for long life
- Centre rotating head design for long head life



(See specification on page 7.)

Included Accessories

- Tripod plate
- Camera microphone (6-pin)
- Battery holder (NP-1 or NB-G1)

Optional Accessories (see page 8)

- Viewfinder
- Lens
- Other microphones
- Microphone holder
- Power system
- Case

Camcorder Specifications



| General | D-9 Camcorder (4: 3) DY-90E | D-9 Camcorder (16: 9/4: 3) DY-90WE | D-9 Camcorder (4: 3) DY-700E | D-9 Dockable Recorder BR-D40E |
|------------------------|---|---|---|----------------------------------|
| Recording time | Max 124 min with DS-124 cassette | ← | ← | ← |
| Weight | Approx. 6.9 kg including lens, viewfinder, battery and tape | Approx. 7.2 kg including lens, viewfinder, battery and tape | Approx. 8.5 kg including lens, viewfinder, battery and tape | Approx. 3.9 kg |
| Power consumption | Max 33 W, Rec. 29 W including lens and viewfinder | Max 34 W, Rec. 30 W including lens and viewfinder | Max 40 W, Rec. 34 W including lens and viewfinder | Max 28 W, Rec. 22 W |
| Battery DC input range | 11-17 V DC | 11-17 V DC | ← | ← |
| Operating temperature | 0 to 40 °C | 0 to 40 °C | ← | ← |
| Dimensions | 153.5 (W) x 296 (H) x 368.5 (D) | ← | 141 (W) x 306.5 (H) x 435.5 (D) | 142 (W) x 266 (H) x 301 (D) |

Imaging

| | | | |
|----------------------------|--|---------------------------|---|
| Sensor | 3 x 2/3" Interline transfer CCDs | ← | 3 x 1/2" Interline transfer CCDs |
| Picture elements | 754 (H) x 581 (V) 440,000 | 980 (H) x 570 (V) 480,000 | 440,000 |
| Optical system | 2/3" F 1.4 RGB prism | ← | 1/2" F1.4 RGB prism |
| Mount | 2/3" bayonet | ← | 1/2" bayonet |
| Filter | 3200K, 5600K + 1/4 ND, 5600K, 5600K + 1/16 ND | ← | 3200K, 5600K, 5600K + 1/16 ND |
| Sensitivity | F11 / 2000 lux | ← | F8 / 2000 lux |
| Minimum illumination | F1.4 / 4 lux, +18 dB | ← | F1.4 / 7.5 lux, +18 dB |
| Lolux minimum illumination | F1.4 / 0.75 lux Lolux mode | ← | F1.4 / 1.5 lux |
| Synchronisation | Internal/external (auto) (Yes or BB) | ← | Internal |
| Registration | 0.05 % without lens, distortion in all area | ← | ← |
| Shutter | 1/50, 1/120, 1/250, 1/500, 1/1000, 1/2000, variable in ALC | ← | ← |
| Variable scan | 50.4 - 1953.1 Hz | ← | 50.1 - 2067.8 Hz |
| Detail correction | Vertical: 2 H Horizontal: 7 MHz, 2.5 MHz, and Mix | ← | Vertical: 2 H Horizontal: 2 H |
| Colour bar | EBU full field | ← | ← |
| Gain | -3, 0, 6, 9, 12, 18 dB Variable gain in ALC and Lolux | ← | 0, 9, 18 dB Variable gain in ALC and Lolux |

Recorder Video

| | | | | |
|--------------------|--|---|---|---|
| Tape speed | 57.737 mm/sec. | ← | ← | ← |
| Sampling frequency | Y: 13.5 MHz R-Y / B-Y: 6.75 MHz | ← | ← | ← |
| Compression | 3.3:1, DCT based Intra-frame compression | ← | ← | ← |
| Data rate | 50 Mbps | ← | ← | ← |
| Video input | No | ← | ← | Y,Cb,Cr analogue component via 50 pin connector and SA-S40U adapter |
| Video output | Composite | ← | ← | ← |

Recorder Audio

| | | | | |
|--------------------|--|---|--|--|
| Tracks | 4x digital, 2x Cue analogue | ← | 2x digital, 2x Cue analogue | ← |
| System | 4 channel PCM 16 bit / 48 kHz | ← | 2 channel PCM 16 bit / 48 kHz | ← |
| Frequency response | 20-20,000 Hz (+1/-1.5dB) | ← | ← | ← |
| Distortion | Less than or equal to 0.1% | ← | ← | ← |
| Cross talk | Less than or equal to -70 dB | ← | ← | ← |
| Audio input | Camera: 1x 6-pin and 3x+48 V XLR -20 dBs/10 kohms balanced, Line: +4 dBs / 10 kohms balanced | ← | Camera: 1x 6-pin and 2x XLR Line: +4 dBs / 10 kohms balanced | Camera: (via 50 pin) -20 dBs / 10 kohms balanced, Line: +4 dBs / 10 kohms balanced |
| Audio output | Line: 0 dBs / low impedance, balanced (XLR-5) Headphone: infinity to -17 dBs, Low impedance | ← | ← | ← |

Time Code

| | | | | |
|----------------|---------------------------|---------------------------|---|---|
| Input / output | 0+/- 6 dBs high impedance | 0+/- 6 dBs high impedance | ← | ← |
|----------------|---------------------------|---------------------------|---|---|

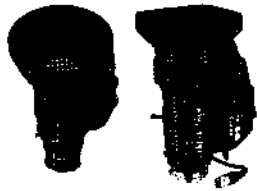
Optional Accessories



DY-90WE/DY-90E/DY-700E/BR-D40E



DY-90E



A19x8.7B12U
19:1 Power Zoom Lens
YJ18x9.5BK12U (Canon)
18:1 Power Zoom Lens

DY-90E



A19x8.7B10U
19:1 lens for KY-D29WE
(Fujinon w/2x extender)
A15x8BEVM
15:1 Power Zoom Lens
A10x4.8BEVM
10:1 Power Zoom Lens
A20x8BEVM
20:1 Power Zoom Lens

DY-90E



(Canon, w/2x extender)
J15ax8BIRS
15:1 Power Zoom Lens
J9ax5.2BIRS
9:1 Power Zoom Lens
J20ax8EIRS
20:1 Power Zoom Lens

DY-700E



(Fujinon)
S14x7.5B12U
14:1 Power Zoom Lens
S19x6.5B12U
19:1 Power Zoom Lens

DY-700E

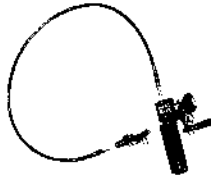


(Canon)
YH14x7.3K12U
14:1 Power Zoom Lens
YH18x6.7K12U
18:1 Power Zoom Lens

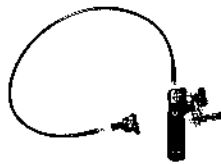
HZ-ZS13BU
Zoom Servo/Trigger control



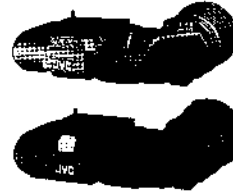
HZ-FM13U (Fujinon)
Manual Focus Control



HZ-FM15U (Canon)
Manual Focus Control



VF-P116E/VF-P116WE
Heavy Duty 1.5" Viewfinder for DY-90E/DY-90WE



VF-P115E
1.5" Viewfinder



MV-P612U
Stereo Microphone 6-pin



MV-P615U
Monaural Microphone XLR for DY-90E



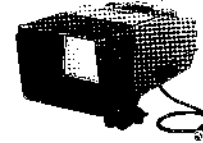
MV-P616U
Monaural Microphone 6-pin for DY-700E/DY-90



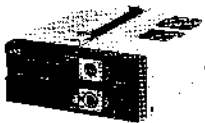
VF-P400E
4" Viewfinder



VF-P550BE/VF-P550BWE
(for DY-90E/DY-90WE)
5" Viewfinder



AA-P250U
AC Power Adapter



KA-A90U
Mic Holder for DY-90E



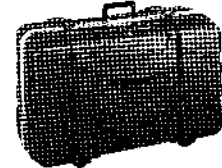
KA-A70U
Mic Holder for DY-700E



CB-P27U
Carrying Case



CB-P29U
Carrying Case



QR-27
Battery Adapter



BH-P27U
Battery Holder



NP-1 Type Battery
(User-supplied battery and holder)

