

DY-90WE 16:9/4:3

DY-90E 4:3

COMPONENT DIGITAL
4:2:2

- Light weight 7.2 kilograms (DY-90WE) and 6.9 kilograms (DY-90E) including typical lens, viewfinder, battery and tape
- Only 30 watts power requirement while recording with DY-90WE (29 W with DY-90E)
- Fully digital Camera to Tape parallel digital signal recording, rugged and high quality 50 Mbps, 8-bit, 4:2:2 component D-9 format
- 2-hour (124 minutes) D-9 recording time with DS-124 cassette
- Advanced generation 14-bit digital signal camera processing
- Records four 16-bit 48 kHz PCM audio channels with more than 80 dB dynamic range (75 dB in camcorder playback).
- Both +48 V XLR and 6-pin camera microphone inputs, plus 2 additional +48 V mic/line XLR inputs

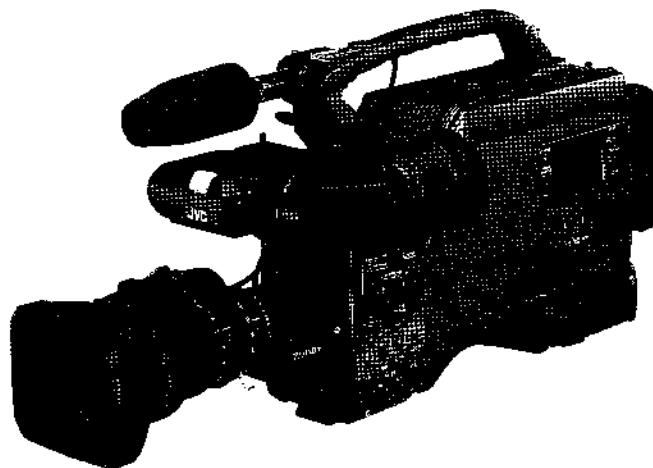
Imaging

- Three 2/3" 980H x 685V pixel IT CCDs (DY-90WE) and three 2/3" 745 H x 581 V pixel IT CCDs with total 600% dynamic range reproduction due to exclusive track and hold CCD sampling circuit. Low CCD vertical smear level of minus 120 dB
- High sensitivity of F11 at 2000 lux gives creative flexibility and ease of lighting
- Lolux mode provides outstanding reproduction down to 0.75 lux
- Digital signal processing enables natural detail enhancement, and elimination of spot noise.
- 14-bit DSP processing gives exceptional reproduction of dark areas, highlights and highlight colour.
- Automatic shooting from 4 to 24,000 lux thanks to JVC's pioneering Full Auto Shooting (FAS) mode with continuous automatic white balance.
- Two scene files save advanced custom camera setups in removable setup box in addition to standard setup.
- Other features: One touch black stretch/compress, smooth transition mode, precision "Accufocus" mode, adjustable gamma point, adjustable detail frequency, and continuous auto-black (CAB).

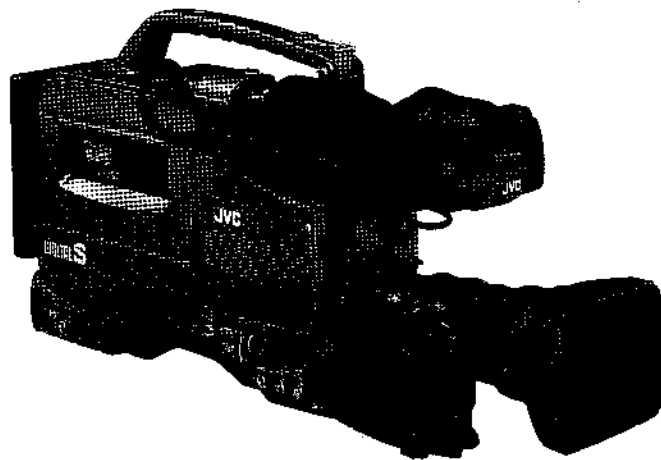
D-9 Recording

- Up to 124 minutes uninterrupted recording with DS-124 cassette.
- Robust 1/2 inch metal particle cassettes
- Automatic editing function (AEF) for smooth cuts
- 4x picture search in both directions
- Quick review function
- Colour video playback for monitoring
- Phantom power supply for microphone inputs
- Built-in monitor speaker and headphones jack
- EBU time code generator with external input and output, external lock, jam sync and seamless time code between takes.
- Time date generator
- 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
- Durable and reliable centre rotating head design

(See specification on page 7.)



DY-90WE



DY-90E

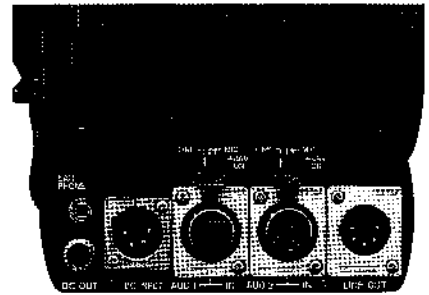
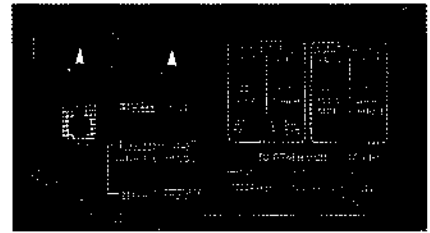
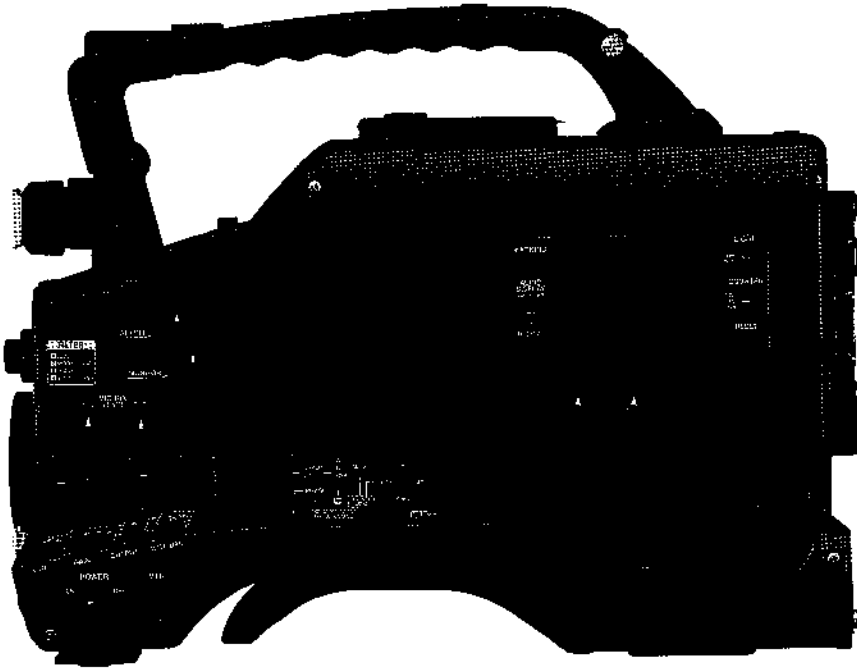
Included Accessories

- Tripod plate
- 6-pin camera microphone (not included for DY-90WE)
- Anton Bauer battery holder
- Setup box

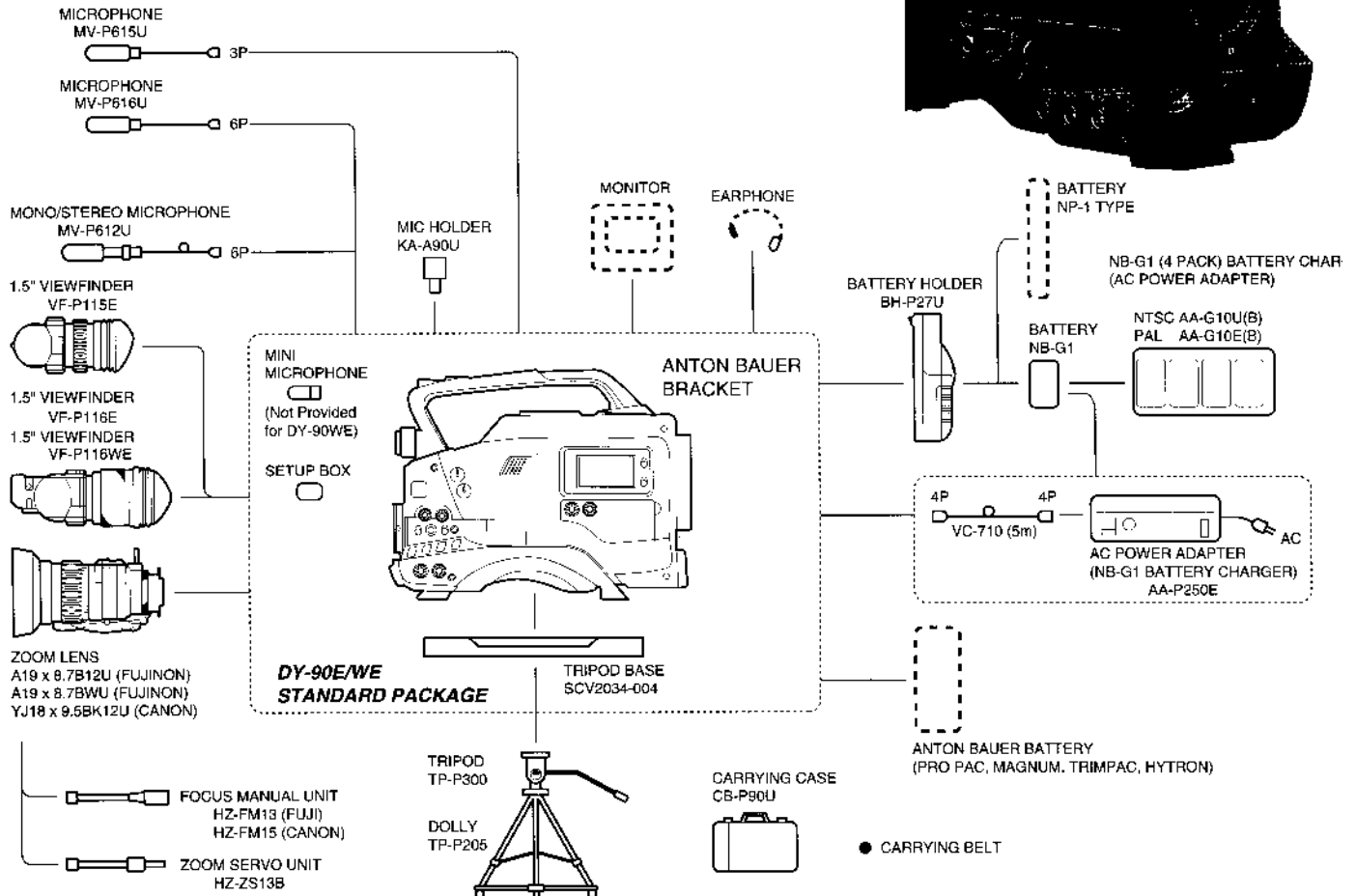
Optional Accessories (see page 8)

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

DY-90WE, DY-90E



System Configuration



All model numbers, specifications and prices are subject to change without notice.

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	←	←
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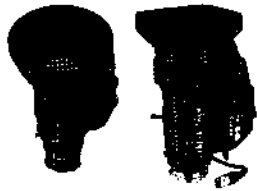
Optional Accessories



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

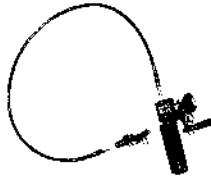


(Canon)
YH14x7.3K12U
14:1 Power Zoom Lens
YH18x6.7K12U
18:1 Power Zoom Lens

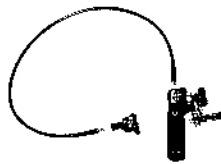
HZ-ZS13BU
Zoom Servo/Trigger control



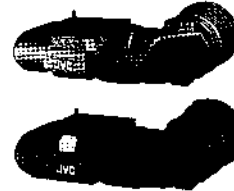
HZ-FM13U (Fujinon)
Manual Focus Control



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



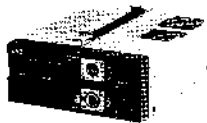
VF-P400E
4" Viewfinder



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



AA-P250U
AC Power Adapter



KA-A90U
Mic Holder for DY-90E



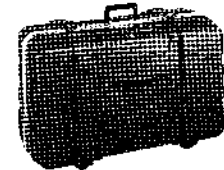
KA-A70U
Mic Holder for DY-700E



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)

