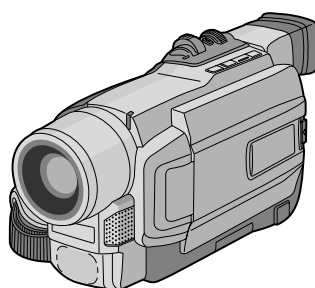


JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DVL512U



Mini DV NTSC
DSC
DIGITAL
STILL CAMERA

Regarding service information other than these sections, refer to the GR-DVL510U service manual (No. 86601). Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-DVL512U)*

Camcorder

For General

Power supply	: DC 11.0 V $\overline{\text{=}}$ (Using AC Adapter) DC 7.2 V $\overline{\text{=}}$ (Using battery pack)
Power consumption	
LCD monitor off, viewfinder on	: Approx. 4.3 W
LCD monitor on, viewfinder off	: Approx. 5.3 W
Video light	: Approx. 3.5 W
Dimensions (W x H x D)	: 83 mm x 97 mm x 188 mm (3-5/16" x 3-7/8" x 7-7/16") (with the LCD monitor closed and the viewfinder pushed down)
Weight	: Approx. 590 g (1.3 lbs)
Operating temperature	: 0°C to 40°C (32°F to 104°F)
Operating humidity	: 35% to 80%
Storage temperature	: -20°C to 50°C (-4°F to 122°F)
Pickup	: 1/4" CCD
Lens	: F 1.8, f = 3.6 mm to 36 mm, 10:1 power zoom lens
Filter diameter	: \varnothing 37 mm
LCD monitor	: 2.5" diagonally measured, LCD panel/TFT active matrix system
Viewfinder	: Electronic viewfinder with 0.24" black/white LCD
Speaker	: Monaural
For Digital Video Camera	
Format	: DV format (SD mode)
Signal format	: NTSC standard
Recording/Playback format	: Video: Digital component recording : Audio: PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)
Cassette	: Mini DV cassette
Tape speed	: SP: 18.8 mm/s LP: 12.5 mm/s
Maximum recording time (using 80 min. cassette)	: SP: 80 min. LP: 120 min.

For Digital Still Camera

Storage media	: SD Memory Card/MultiMediaCard
Compression system	: JPEG (compatible)
File size	: VGA (640 x 480 pixels)
Picture quality	: 2 modes (FINE/STANDARD)
Approximate number of storable images with memory card [8 MB] (provided)	
FINE	: 100
STANDARD	: 200
with memory card [16 MB] (optional)	
FINE	: 200
STANDARD	: 400
with memory card [32 MB] (optional)	
FINE	: 400
STANDARD	: 800
with memory card [64 MB] (optional)	
FINE	: 800
STANDARD	: 1600

For Connectors

S-Video	: Y : 1 V (p-p), 75 Ω , analog C : 0.29 V (p-p), 75 Ω , analog
AV	
Video output	: 1 V (p-p), 75 Ω , analog
Audio output	: 300 mV (rms), 1 k Ω , analog, stereo
DV	
Output/input	: 4-pin, IEEE 1394 compliant
USB	: 5-pin
EDIT	: \varnothing 3.5 mm, 2-pole

AC Adapter AP-V10U

Power requirement	
U.S.A. and Canada	: AC 120 V \sim , 60 Hz
Other countries	: AC 110 V to 240 V \sim , 50 Hz/60 Hz
Output	: DC 11 V $\overline{\text{=}}$, 1 A
Dimensions (W x H x D)	: 59 mm x 31 mm x 84 mm (2-3/8" x 1-1/4" x 3-5/16")
Weight	: Approx. 130 g (0.29 lbs.)

Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.

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5.2 FINAL ASSEMBLY <M2> 5-3

The following table indicate main different points between models GR-DVL510U and GR-DVL512U.

ITEM	MODEL	GR-DVL510U	GR-DVL512U
REMOTE CONTROL UNIT		RM-V715U	RM-V716U

The following table indicate different parts number between models GR-DVL510U and GR-DVL512U.

PACKING AND ACCESSORY ASSEMBLY <M1> Note: As for IB (INSTRUCTIONS), refer to sec.5.

△ REF. NO.	ITEM	MODEL	GR-DVL510U	GR-DVL512U
11	CD ROM		*LY32210-003ALY32210-009A	
17	REMOTE CONTROL UNIT		*LY42129-001ALY20543-002A	
21	USB CABLE		*QAM0324-001QAM0352-001	
23	CABLE ASSY		—	PEAC0428-150
24	CORE FILTER		—	QQR0491-002

FINAL ASSEMBLY <M2>

△ REF. NO.	ITEM	MODEL	GR-DVL510U	GR-DVL512U
101	LOWER CASE ASSY		*LY20706-003BLY20706-003C	
101C	COVER(JACK)		*LY32099-001BLY32099-001C	
102	ARM ASSY		*LY20697-001ALY20697-001B	
104	CASSETTE COVER ASSY		*LY20704-001ALY20704-001B	
107	COVER(AJUST)		LY32092-010ALY32092-032A	
143	SPECIAL SCREW		*LY30018-084A,(X2)	LY30018-084A,(X1)
146	SPECIAL SCREW		*LY30018-084A,(X2)	LY30018-084A,(X3)
151	SPECIAL SCREW		*—	LY30018-023A
158	SPECIAL SCREW		*LY30018-090ALY30018-0D6A	

MONITOR ASSEMBLY <M5>

△ REF. NO.	ITEM	MODEL	GR-DVL510U	GR-DVL512U
△ 500	MONITOR ASSY		LYH20246-010A	LYH20246-018A
510	SPACER(A)		*LY30029-063A	—

Notes: Mark — is not used.
Mark * reference model was also changed.

MAIN BOARD ASSEMBLY <01>

△ REF. NO.	ITEM	MODEL	GR-DVL510U	GR-DVL512U
PW	MAIN BOARD ASSY		*YB10317B-03	YB10317B-04
IC1401	IC		*YQ44881A	YQ44882A
IC1403	IC		*SN74AHC2G53T	—
R1410	MG RESISTOR		*NRSA6AJ-331W	—
R1411	MG RESISTOR		*NRSA6AJ-473W	—
R1412	MG RESISTOR		*NRSA6AJ-331W	—
R1413	MG RESISTOR		*—	NRSA6AJ-331W
R6014	MG RESISTOR		*—	NRSA63J-0R0X
R8013	MG RESISTOR		*NRSA6AJ-821W	—
C1008	CAPACITOR		*NCBA1CK-103W	—
C1013	CAPACITOR		*NCBA1CK-103W	—
C1018	CAPACITOR		*NCBA1CK-103W	—
C1024	CAPACITOR		*NDCA1HJ-100W	—
C1025	CAPACITOR		*NDCA1HJ-100W	—
C8030	CAPACITOR		*NDCA1HJ-150W	—
X1001	C OSCILLATOR		*NAX0424-001X	NAX0474-001X
S6001	SLIDE SWITCH		*NSW0096-001X	—

MONITOR BOARD ASSEMBLY <02>

△ REF. NO.	ITEM	MODEL	GR-DVL510U	GR-DVL512U
PW1	MONITOR BOARD ASSY		*YB10324H1-03	YB10326H-01
C7616	CAPACITOR		*NCB31HK-102X	NCB31EK-103X
C7640	CAPACITOR		*—	NCB31EK-103X
CN766	SD CARD CONNECTOR		*NNZ0052-001X	NNZ0058-001X

LCD BL BOARD ASSEMBLY <03>

△ REF. NO.	ITEM	MODEL	GR-DVL510U	GR-DVL512U
PW2	LCD BL BOARD ASSY		*YB10324B2-02	YB10325B

JACK BOARD ASSEMBLY <06>

△ REF. NO.	ITEM	MODEL	GR-DVL510U	GR-DVL512U
PW1	JACK BOARD ASSY		*YB10314B1-01	YB10314B1-03
HD1	HOLDER(J.PWB)		*LY32086-001ALY32086-001B	

Notes: Mark — is not used.
 Mark * reference model was also changed.

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