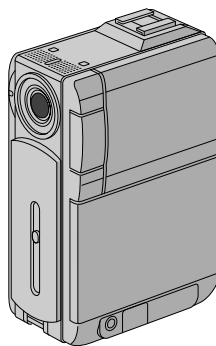


# JVC

# SERVICE MANUAL

## DIGITAL VIDEO CAMERA

# GR-DVP3UM



Mini DV NTSC  
DSC  
DIGITAL  
STILL CAMERA

Regarding service information other than these sections, refer to the GR-DVP3U service manual (No. 86628). Also, be sure to note important safety precautions provided in the service manual.

## SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-DVP3U)*

### Camcorder

#### For General

Power supply	: DC 6.3 V $\overline{\text{=}}$ (Using AC Power Adapter/Charger) DC 7.2 V $\overline{\text{=}}$ (Using battery pack)
Power consumption	
LCD monitor off, viewfinder on	: Approx. 4.1 W
LCD monitor on, viewfinder off	: Approx. 5.0 W
Dimensions (W x H x D)	: 43 mm x 115 mm x 80 mm (1-3/4" x 4-9/16" x 3-3/16") (with the LCD monitor closed and the viewfinder pushed back in)
Weight	: Approx. 340 g (0.75 lbs) (without grip belt, battery and cassette) Approx. 410 g (0.91 lbs) (incl. grip belt, battery and cassette)
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 = 3.7 mm to 37 mm, 10:1 power zoom lens (It is not possible to attach any lens filter or conversion lens.)
LCD monitor	: 2" diagonally measured, LCD panel/TFT active matrix system
Viewfinder	: Electronic viewfinder with 0.44" color 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	: Still image : JPEG (compatible) Moving image : MPEG4 (compatible)
File size	: 2 modes (XGA: 1024 x 768 pixels/VGA: 640 x 480 pixels)
Picture quality	: 2 modes (FINE/STANDARD)
Approximate number of storable images (with the provided memory card [8 MB], with Sound Effects pre-stored)	
FINE	: 37 (VGA), 16 (XGA)
STANDARD	: 105 (VGA), 51 (XGA)

For other memory cards, see pg. 17.

#### For Connectors

AV	
Video output	: 1 V (p-p), 75 $\Omega$ , analog
Audio output	: 300 mV (rms), 1 k $\Omega$ , analog, stereo
DV	
Input/output	: 4-pin, IEEE 1394 compliant

#### AC power adapter/charger AA-V100U

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
Power consumption	: 23 W
Output	
Charge	: DC 7.2 V $\overline{\text{=}}$ , 1.2 A
VTR	: DC 6.3 V $\overline{\text{=}}$ , 1.8 A
Dimensions (W x H x D)	: 68 mm x 44 mm x 110 mm (2-11/16" x 1-3/4" x 4-3/8")
Weight	: Approx. 255 g (0.57 lbs)

#### Docking Station CU-V507U

For General	
Dimensions (W x H x D)	: 48.4 mm x 36 mm x 79 mm (1-15/16" x 1-7/16" x 3-1/8")
Weight	: Approx. 53 g (0.12 lbs)

#### For Connectors

PHONE	
Headphone output	: $\varnothing$ 3.5 mm, stereo
USB	: TYPE B
S-VIDEO OUT	: Y: 1 V (p-p), 75 $\Omega$ , analog output C: 0.29 V (p-p), 75 $\Omega$ , analog output
EDIT	: $\varnothing$ 3.5 mm, 2-pole

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

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The following table indicate main different points between models GR-DVP3U and GR-DVP3UM.

ITEM	MODEL	GR-DVP3U	GR-DVP3UM
AC POWER ADAPTER/CHARGER		AA-V100U	AA-V100EN

The following table indicate different parts number between models GR-DVP3U and GR-DVP3UM.

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

△ REF. No.	ITEM	MODEL	GR-DVP3U	GR-DVP3UM
1	PACKING CASE		LY32275-001A	—
△ 5	AC POWER ADAPTER/CHARGER		LY20754-001B	LY20754-012A
6	DOCKING STATION		LY20755-001B	*LY20755-001C
8	CD ROM		LY32210-004A	*LY32210-004B
10	STRAP		LY20765-001B	*LY20765-001C
12	CD ROM		LY32210-009A	—
15	CORE FILTER,X2		QQR0491-002	*—
19	CORE FILTER		QQR0491-002	*—
22	AUDIO CABLE		QAM0213-001	*—
23	CORE FILTER		QQR1081-002	*—
24	MINI DV TAPE		—	M-DV30MEBU
29	Q.CARD(JCA)		YU10350	—
30	WARRANTY INF.		BT-51005-4	—
31	REGIST.CARD		BT-51020-2	—
32	USB CABLE		—	*QAM0322-001
33	CORE FILTER		—	*QQR0918-001
34	S CABLE		—	QAM0004-003
35	CORE FILTER		—	QQR0918-002

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

**FINAL ASSEMBLY <M2>**

REF. No.	ITEM	MODEL	GR-DVP3U	GR-DVP3UM
107	TORSION SPRING		LY43063-001A	*LY43225-001A
109	KNOB(SHUTTER)		LY32260-001C	*LY32260-001D
113	SPACER(A),X2		LY30029-0P1A	*—
114	COVER(SHUT)ASSY		LY43102-001C	*LY43102-001F
115	GUIDE(SHUT)ASSY		LY43104-001C	*LY43104-001E
123	SPACER(A)		LY30029-0M4A	*LY30029-0N5A
125	UPPER CASE ASSY		LY32292-001C	*LY32292-001F
127	J.COVER(DV)ASSY		LY43126-001C	*LY43126-001D
128	SPACER(A)		LY30029-0P7A	*—
131	SUB OPE		LY32198-001A	*LY32198-001B
135	COVER(JIG)ASSY		LY43134-001A	*LY43134-001C
142	SHEET(CAUTION)1/SHEET(CAUTION)		LY41701-004A	*LY43287-001A
143	SHEET(CAUTION)2		LY42163-002B	*—
144	FOOT		LY42350-001A,(X3)	*LY42350-002A,(X4)
146	SPECIAL SCREW,X2		LY30018-0C3A	*LY30018-0E4A
157	SPACER(A)		—	*LY30029-0N3A
165	BRACKET(MECHA)ASSY		LY43074-001A	*LY43074-001C
185	LOWER CASE		LY20756-001B	*LY20756-001C
186	BUTTON(FUNC.)		LY32239-001B	*LY32239-001D
193	BATTERY LOCK ASSY		LY32280-001C	*LY32280-001D
197	BRACKET(H.S)		LY32262-001A	*LY32262-001B
206	BOTTOM COVER		LY20760-001B	*LY20760-001G
207	COVER(SD)ASSY		LY32279-001B	*LY32279-001C
209	SPACER(A),X2		LY30029-0K5A	LY30029-0R8A
△ 210	CAUTION LABEL		LY43148-001A	LY43148-002A
211	HOOD		LY32255-001B	*LY32255-001C
212	HOLDER(SD CON)		LY43169-001A	*LY43169-001C
215	SPECIAL SCREW		LY30018-081A	*LY30018-0E3A
216	SCREW		QYSPSPT1725D	*QYSPSPT1730D
219	SPACER(LOW-BOTT)		LY43216-001A	*—
220	SPACER(A)		LY30029-0L3A,(X2)	LY30029-0R9A,(X1)
221	SPACER(BLACKOUT)		—	*LY43420-001A
224	SPACER-B		LY30017-027A	*—
225	SPACER(A)		—	LY30029-0S1A
226	SPACER-B		LY30017-029A	*—
228	SPACER(A)		LY30029-0Q2A	*—
229	SPACER(A)		LY30029-0Q5A	*—
231	ARM ASSY(1)		LY32244-001B	*LY32244-001C
232	SPECIAL SCREW		LY30018-081A	*LY30018-031A
235	ARM ASSY(2)		LY32245-001B	*LY32245-001E
△ 240	SAFETY LABEL		LY43149-001A	LY43382-001A
241	SHEET(C.COVER)		LY43055-001A	*LY43055-001C
242	OPE.COVER UNIT		LY20749-001B	*LY20749-001E
245	SPACER(A)		LY30029-0L5A	*LY30029-0L5C
246	SHEET(OPE-SD)		LY43198-001A	*LY43198-001B
251	OPTICAL BLOCK ASSY		J0D-101A	*J0D-101B
253	SPACER(A)/SPACER(OP)		LY30029-0K8A	*LY43355-001A
254	OP BRACKET ASSY		LY43075-001B	*LY43075-001C
254B	SPACER(B)		LY30017-018A	*—
257	SPACER(OP2)		—	*LY43381-001A
258	SPACER		—	*LY43398-001A
261	KNOB(BATT.LOCK)		—	*LY32250-001C
262	STOPPER PLATE		—	*LY43168-001A

**MECHANISM ASSEMBLY <M3>**

REF. No.	ITEM	MODEL	GR-DVP3U	GR-DVP3UM
427	MINI SCREW		YQ43893	*LY43023-001A
467	SLIT WASHER		—	*YQ44246

**ELECTRONIC VIEWFINDER ASSEMBLY <M4>**

REF. No.	ITEM	MODEL	GR-DVP3U	GR-DVP3UM
300	VF UNIT		LY32231-001C	*LY32231-001E

Notes : Mark — is not used.

Mark \* reference model was also changed.

**MONITOR ASSEMBLY <M5>**

△ REF. No.	ITEM	MODEL	GR-DVP3U	GR-DVP3UM
△ 500	MONITOR ASSY		LYH20289-001B	*LYH20289-001C
501	MONITOR CASE ASSY		LY32263-001C	*LY32263-001E
505	HINGE ASSY		LY32230-001A	*LY32230-001B
515	FPC ASSY(MONI)		LY32282-001B	*LY32282-001C
517	SPACER(A)		—	*LY30029-0N7A

**MAIN BOARD ASSEMBLY <01>**

△ REF. No.	ITEM	MODEL	GR-DVP3U	GR-DVP3UM
PW	MAIN BOARD ASSY		YB10327A-02	*YB10327A-04
IC1001	IC(MICRO C ROM)		UPD703039F1-A13	*UPD703039F1-A14
IC1401	IC(MICRO C ROM)		UPD703040YF-M01	*UPD703040YF-M02
IC8004	IC(MICRO C ROM)		MBV800TA90PBA12	*MBV800TA90PBA13
R3045	MG RESISTOR		—	*NRSA63J-0R0X
C7802	CAPACITOR/MG RESISTOR		NCBA1AK-104W	*NRSA6AJ-122W
J101	D CONNECTOR		QNZ0518-001	*QNZ0518-002
SD1	SHIELD CASE(PR)		LY32271-001A	*LY32271-001B
OT3	SPACER(A)		LY30029-0K3A	*LY30029-0K3B
OT5	SPACER-B/SPACER(A)		LY30017-026A	*LY30029-0Q9A
OT6	SPACER(A)		LY30029-0M5A	*LY30029-0P4A
OT7	SPACER(A)		—	*LY30029-0P9B
OT8	SHEET(DV)		—	*LY43230-001A

**AUDIO BOARD ASSEMBLY <02>**

△ REF. No.	ITEM	MODEL	GR-DVP3U	GR-DVP3UM
OT3	SPACER(A)		LY30029-0L6A	*LY30029-0P8A
OT4	SPACER(A)		—	*LY30029-0P3A
OT5	SPACER(A)		—	*LY30029-0P8A
OT6	SPACER-B		—	*LY30017-029A

**BOTTOM BOARD ASSEMBLY <03>**

△ REF. No.	ITEM	MODEL	GR-DVP3U	GR-DVP3UM
PW1	BOTTOM BOARD ASSY		YB10329A1-01	*YB10329A1-03
CN302	MULTI.CONNECTOR		LY32206-001A	*LY32206-001B
OT1	SPACER(A)		LY30029-0N5A	*LY30029-0N2A
OT8	SPACER(A)		—	*LY30029-0P7A

**EJECT BOARD ASSEMBLY <06>**

△ REF. No.	ITEM	MODEL	GR-DVP3U	GR-DVP3UM
WR1	E-SI C WIRE C-F		WJM0209-001A	*WJM0209-001B

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



**JVC**

VICTOR COMPANY OF JAPAN, LIMITED  
VIDEO DIVISION

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