

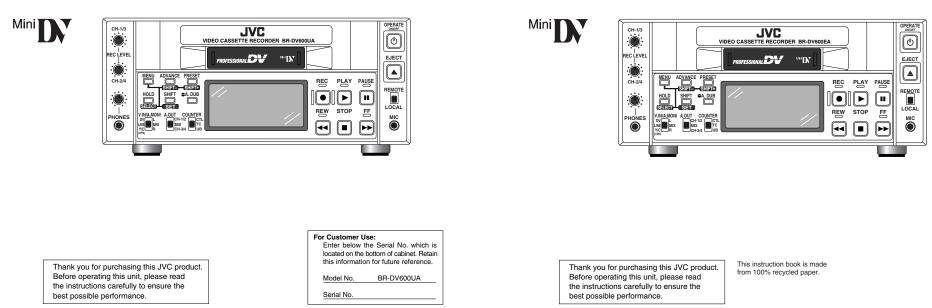


VIDEO CASSETTE RECORDER

VIDEO CASSETTE RECORDER

BR-DV600UA INSTRUCTIONS

BR-DV600EA INSTRUCTIONS



SL96202H

UE

IMPORTANT SAFEGUARDS

- 1. Read all of these instructions.
- 2. Save these instructions for later use.
- 3. All warnings on the product and in the operating instructions should be adhered to.
- Unplug this appliance system from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 5. Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.
- Do not use this appliance near water for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
- 7. Do not place this appliance on an unstable cart, stand, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance.

Use only with a cart or stand recommended by the manufacturer, or sold with the appliance. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

- 8. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the appliance and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the appliance on a bed, sofa, rug, or other similar surface. This appliance should never be placed near or over a radiator or heat register. This
- appliance should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.9. This appliance should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company. For appliance
- designed to operate from battery power, refer to the operating instructions.
 10. This appliance system is equipped with a 3-wire grounding type plug (a plug having a third (grounding) pin). This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding plug.
- 11. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- Do not allow anything to rest on the power cord. Do not locate this appliance where the cord will be abused by persons walking on it.
- 13. Follow all warnings and instructions marked on the appliance.
- 14. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
- 15. Never push objects of any kind into this appliance through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the appliance.
- 16. Do not attempt to service this appliance yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 17. Unplug this appliance from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the appliance.
 - c. If the appliance has been exposed to rain or water.
 - d. If the appliance does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to normal operation.
 e. If the appliance has been dropped or the cabinet has been damaged.
 - f. When the appliance exhibits a distinct change in performance this indicates a need for service.
- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire,
- electric shock, or other hazards. 19. Upon completion of any service or repairs to this appliance, ask the service technician to perform routine safety checks to determine that the appliance is in safe operating condition.

Supplement

This equipment is in conformity with the provisions and protection requirements of the corresponding European Directives. This equipment is designed for professional video appliances and can be used in the following environments:

- residential area (in houses)
- commercial and light industry; e.g. office or theatres
- urban outdoors

This apparatus is designed for rack mounting or is used close to other apparatus.

In order to keep the best performance and furthermore for electromagnetic compatibility we recommend to use cables not exceeding the following lengths:

Port	Cable	Length
LINE IN	Coaxial Cable	10 meters
LINE OUT	Coaxial Cable	10 meters
VIDEO MONITOR OUT	Coaxial Cable	10 meters
COMPONENT Y IN	Coaxial Cable	10 meters
R-Y IN	Coaxial Cable	10 meters
B-Y IN	Coaxial Cable	10 meters
COMPONENT Y OUT	Coaxial Cable	10 meters
R-Y OUT	Coaxial Cable	10 meters
B-Y OUT	Coaxial Cable	10 meters
Y/C IN	Exclusive Cable	10 meters
Y/C OUT	Exclusive Cable	10 meters
SYNC IN	Coaxial Cable	10 meters
TIMECODE IN	Coaxial Cable	10 meters
TIMECODE OUT	Coaxial Cable	10 meters
AUDIO IN	Exclusive Cable	10 meters
AUDIO OUT	Exclusive Cable	10 meters
AUDIO MONITOR OUT	Exclusive Cable	10 meters
SERIAL REMOTE	Cable with RM-G30	3 meters
REMOTE1(RS-422)	Exclusive Cable	10 meters
REMOTE2(JVC BUS)	Exclusive Cable	10 meters
DV IN/OUT	Exclusive Cable	5 meters
MIC	Cable with Microphone	5 meters
PHONES	Cable with Headphones	5 meters
AC IN	Exclusive Cable	5 meters
DC 12V	Exclusive Cable	5 meters

The inrush current of this apparatus is 8 amperes.

Caution:

- Where there are strong electromagnetic waves or magnetism, for example near a radio or TV transmitter, transformer, motor, etc., the picture and sound may be disturbed. In such a case, please keep the apparatus away from the sources of the disturbance.
- When the RM-G800 remote controller is used, the counter, etc. may malfunction due to interference generated by the peripheral equipment. In this case, consult your nearest JVC dealer.

SAFETY PRECAUTIONS



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

This unit should be used with 120 V AC only.

CAUTION: To prevent electric shocks and fire hazards, DO NOT use any other power source.

NOTE:

The rating plate (serial number plate) is on the bottom of the unit.

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, prusuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: • Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

CHANGES OR MODIFICATIONS NOT APPROVED BY JVC COULD VOID USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERA-TION.

ATTENTION: POUR EVITER TOUT RISQUE D'ELECTROCUTION NE PAS OUVRIR LE BOITER. AUCUNE PIECE INTERIEURE N'EST A REGLER PAR L'UTILSATEUR. SE REFERER A UN AGENT QUALIFIE EN CAS DE PROBLEME

> Le symbole de l'éclair à l'intérieur d'un triangle équilatéral est destiné à alerter l'utilisateur sur la présence d'une "tension dangereuse" non isolée dans le boîtier du produit. Cette tension su suffisante pour provoquer l'électrocution de personnes.



*Ces symboles ne sont utilisés qu'aux Etats-Unis.

AVERTISSEMENT:

POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, NE PAS EXPOSER L'APPAREIL A L'HUMIDITE OU A LA PLUIE.

Ce magnétoscope ne doit être utilisé que sur du courant alternatif en 120 V.

ATTENTION: Afin d'éviter tout resque d'incendie ou d'électrocution, ne pas utiliser d'autres sources d'alimentation électrique.

REMARQUE:

La plaque d'identification (numéro de série) se trouve sur le panneau arrière de l'appareil.

WARNING:

The battery used in the BR-DV600UA must be replaced by a JVC authorized service dealer only.

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Department of Communications.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques", NMB-003 édictée par le ministre des Communications.

□ <u>SAFETY PRECAUTIONS</u>

Warning Notice

FOR YOUR SAFETY (Australia) 1. Insert this plug only into effectively earthed threepin power outlet.

- If any doubt exists regarding the earthing, consult a qualified electrician.
- Extension cord, if used, must be three-core correctly wired

IMPORTANT (In the United Kingdom) Mains Supply (AC 230 V √) WARNING – THIS APPARATUS MUST BE EARTHED

The wires in this mains lead are coloured in accordance with the following code:

GREEN-and-YELLOW: EARTH BLUE: NEUTRAL BROWN: LIVE As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug,

proceed as follows. The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the safety earth symbol ≟ or coloured GREEN or GREEN-AND-YELLOW. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or which is coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

POWER SYSTEM

Connection to the mains supply This unit operates on voltage of 220 V to 240 V AC, 50 Hz/60 Hz.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

To prevent electric shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified service personnel.

Note:

The rating plate and the safety caution are on the bottom of the unit.

The OPERATE button does not completely shut off mains power from the unit, but switches operating current on and off.

WARNING

It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast, or cable programme and in any literary, dramatic, musical or artistic work embodied therein.

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This unit is designed for use as a recorder/player. Insert editing is not possible.

Compatible models of the RM-G800 have an X on the packing case and on the serial number plate (next to the model name) on the base. If your RM-G800 is not marked with an X, you will need to upgrade the software in order to use it with the BR-DV600UA. A software upgrade is available at a nominal fee. For more information, contact your JVC dealer.

This unit is designed for professional use.

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This video cassette recorder uses the MiniDV format. Use only video cassettes bearing the MiniDV mark.

Please note that it may be unlawful to use any material recorded from TV broadcast programs or pre-recorded programs without the consent of the owner of copyright, except in cases where this material is recorded exclusively for personal use.

JVC is not liable for compensation for loss or damage to recordings in the event this unit fails to record or play back correctly due to a malfunction of the unit itself or as a result of the use of a defective video cassette.

1 INTRODUCTION

1-1 Major features

- MiniDV format
- High-quality picture and sound thanks to digital technology
- DV in/out (IEEE 1394) connector enabling signals to be transferred to or from any device equipped with IEEE 1394 input/output
- Composite, Y/C and component inputs/outputs
 Sync lock function for audio and video signals
- There is no lip link shift even during extended recording
- JVC bus and RS-422 serial remote interfaces

- RS-232C interface (optionally available)
- 2-way power supply system (AC 120 V, DC 12 V) (U MODEL)
- 2-way power supply system (AC 220 V 240 V, DC 12 V) (E MODEL)
- Audio dubbing function (32 kHz sampling rate)
- Compact, lightweight design
 SMPTE time code recording and playback (U MODEL)
- EBU time code recording and playback (0 MODEL) EBU time code recording and playback (E MODEL)
- External timer-start function
- External sync signal input connectors
 Time code IN/OUT connectors provided

1-2 Maintenance

The video cassette recorder/player incorporates precision components. Continued use of the VCR without maintenance may lead to malfunctions. Regular maintenance is necessary to prevent malfunctions and maintain the performance level required for professional use.

 Maintenance: Just as regular oil changes, brake checks, and tune-ups are essential to keep your car running well over a long period, your VCR must be maintained regularly to ensure optimum long-term performance.

The information below will help you determine a maintenance schedule that will ensure optimum performance over a long period of time.

Hour meter indication

The hour meter can be displayed by selecting "HM: HOUR METER" on the menu switch setting screen. For details, refer to "Menu Switches" on page 19.

Details for maintenance

Depending on the operation time, clean, inspect or replace the following mechanism components.

Operating time	500H	1000H	1500H	2000H
Drum assembly(including the heads)	0	0	0	•
Head cleaner	Å	•	슙	•
Tape guide roller	0	☆	☆	•
Rotary encoder	-	☆	-	•
Belt and gear	4	•	☆	•
Driving system parts	0	0	☆	•

This table should be used for reference only. Actual maintenance requirements will vary according to how the unit is used.

Maintenance consultation

Consult your local JVC dealer for more information about maintenance scheduling and costs.

Head cleaning

Recording and playback with clogged heads may result in block noise or sound interruption. In this case, clean the heads. Use an exclusive head cleaning tape M-DV12CL to clean the tape running system. For cleaning procedures and handling precautions, refer to page 7. After cleaning the heads, check that recording and playback function properly before using the unit for any important operations.

Cleaning

Use a soft cloth to clean the cabinet. Do not use benzene or thinner as these may melt or cloud the cabinet surface. To remove excessive dirt, clean the unit with a mild detergent diluted with water, then wipe it with a dry cloth.

1 INTRODUCTION

1-3 Precautions

Installation and storage

- To avoid malfunctions or damage to your recorder, do not use or store it in places subject to the following conditions.
- Extreme heat or cold temperature outside the allowable range (5°C to 40°C)
 Strong magnetic fields (generated by transformers,
- motors, etc.)
- Electrical waves generated by equipment such as a transceiver or cellular phone
- High humidity outside the allowable operating range (30% to 80%)
 Dust and soil
- Dust and s
 Vibrations
- vibrations
- Condensation

Condensation

- Do not use this unit immediately after moving it from a cold place to a warm place or after switching on a heater in a cold room. This will cause water vapor to condense on the video head drum and tape guides and may damage the tape and the VCR.
- When condensation occurs, the DEW indication appears on the tape counter display and the warning indication on the on-screen display. Leave the VCR in this state with the power on and wait until the warning message turns off.

Handling

- Do not block the ventilation openings.
- Do not place anything heavy on the unit.
- Do not put any foreign materials into the cassette loading slot.
- Operate the unit in a horizontal (flat) position only.
- Avoid violent shocks to the unit.

Transportation

Remove the cassette tape from the unit prior to transportation.

Energy saving

When not using the unit, turn the power off to avoid unnecessary power consumption.

Cassette tape

- Type
 Only cassettes bearing the MiniDV mark can be used with this VCR.
- Exclusive JVC DVM60 or DVM30 cassette tape is recommended.

Handling

- Cassette tapes cannot be loaded upside-down.
 Rewind the tape to the beginning before storage.
- The number of times a tape can be reused is limited. If
- the tape is reused more than this, increased noise (such as dropouts) may result. Do not use dirty or damaged tapes. Doing so not only results in poorer performance, but may also shorten the service life of the rotary heads.
- It is possible that some distortion may occur at the beginning and end of tapes. This can vary depending on the tape. However, for best results, do not use these sections of the tape for any important recordings.
- Store cassettes in a case.

Erasure prevention

MiniDV cassettes are provided with a safety slide on the side to prevent accidental erasure. Set it as required.



Move the slide to SAVE to prevent erasure.Move the slide to REC to allow recording.

Power supply

- This unit is provided with both AC and DC power supplies. For editing over an extended period, it is recommended that you use a stable AC power supply or DC power supply from an AC adapter. Using battery power is recommended only as a supplementary power source or for field use.
- The AC and DC power supplies are switched automatically. When the AC power supply is switched to the DC power supply, the power turns off. When both power supplies are connected, the AC power supply has priority. Be sure to confirm which power supply is in use when plugging or unplugging the power supply.
- Use power voltage from DC 11 V to 15 V. Your unit may not function properly otherwise.

1 INTRODUCTION

1-4 Precautions for use of head cleaning tape

Adhere to the following precautions when using the head cleaning tape.

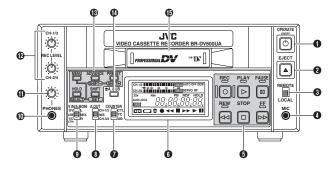
- The tape runs for 10 seconds at a time in the PLAY mode. (The tape stops automatically.) Press the PLAY button after the cleaning tape is fully loaded.
- Do not use the tape more than four times at the most for each cleaning.
- 3. The cleaning tape can be used approximately 100 times.
- Use the following chart as a guide for periodical head cleaning.

Operating environment	Low temperature 5°C to 10°C	Room temperature 10°C to 35°C	High temperature 35°C to 40°C
Yardstick for use of cleaning tape	1 to 2 times every 5 hours	1 to 2 times every 20 to 30 hours	1 to 2 times every 5 hours

- Note 1) When used in a low humidity environment (10% RH to 30% RH), head cleaning should be conducted at intervals half of those given in the above chart.
- Note 2) When an ME80 tape is used immediately after head cleaning, the VTR warning (head) indicator may remain on. In this case, let the tape run as the indicator will turn off after the tape has run for a while.
- Note 3) Use the cleaning tape in the room temperature (10°C to 35°C).
- Note 4) The cleaning tape case contains instructions for use of the cleaning tape. However, some of these instructions differ from the contents of this sheet. When using the cleaning tape, please follow the instructions of this sheet.
- * If you need to purchase a cleaning tape, consult your JVC dealer.

2 CONTROLS. CONNECTORS AND DISPLAYS

2-1 Front panel



OPERATE1 switch

Press this switch to turn this unit ON. Press it again to turn this unit OFF. When the power is OFF, the "oPE-oFF" indication is shown.

Keep in mind that a small amount of current continues to flow into the VCR even when the power is turned off. When not using this unit, disconnect the power cable from the AC outlet. Remove the battery when not in use to avoid excessive discharge.

[EJECT] button Press to eject the cassette.

[REMOTE/LOCAL] switch

Use to switch between REMOTE and LOCAL.

[MIC] jack

Connect a microphone (3.5 mm dia., -67 dBs, 3 kΩ).

- Operation buttons
 - Use to control tape running
 - REC: Recording PLAY Playback
 - PAUSE: Temporary stop
 - Press this button in the Pause mode to play back the picture one frame at a time (frame-by-frame or field-
 - by-field playback)
 - IF See No. 052 <STEP SLOW MODE> on page 20. Rewinding
- BEW STOP: Stop
- FF: Fast-forwarding

G LCD Display

Use to show various data including the tape counter and audio level meter. For details, refer to "LCD display" on page 11.

[COUNTER] switch

Use to switch the type of data displayed on the tape counter. When the No. 516 <DISPLAY SELECT> menu switch is set to "CLOCK", clock is shown for TC and date is shown for UB.

IAUDIO OUTPUTI switch

Use to select the audio channel to output from the rear panel's [AUDIO OUT] connectors and the headphones.

[VIDEO INPUT/AUDIO MONITOR] switch Use this switch to select the video input signals or to select the audio channel you want to output from the rear panel's IAUDIO MONITOR OUTI connector.

Use No. 054 <SLIDE SW FUNCTION> menu switch to switch between VIDEO INPUT and AUDIO MONITOR. See "Recording preparation" on page 26. See "Playback preparation" on page 28.

In the REC or FF/REW mode, the [VIDEO INPUT] switch has no effect. Set the [VIDEO INPUT] switch after the REC or FF/ REW operation is complete.

(PHONES) jack

Connect a set of headphones (3.5 mm dia. mini-jack).

PHONES control

Use to adjust the volume level of the headphones connected to the [PHONES] jack.

(REC LEVEL) control

- Use to adjust the audio recording level. CH-1/3: CH1 can be adjusted in normal recording.
- CH3 recording level can be adjusted in audio dubbing CH-2/4: CH2 can be adjusted in normal recording.
- CH4 recording level can be adjusted in audio dubbing. Audio dubbing is possible when the No. 245 <SAMPLING RATE> menu switch is set to "32K"

B Setting buttons

- Use to set the menu switch, time code and user bits. Menu switch setting
- MENU: Press to set the menu switch setting mode
- SHIFT +/-: Use to select the menu switch.
- Use to enter the set value. SET SELECT: Use to change the value.
- Time code and user bits setting
- Press to set the time code, user bits or time date HOLD: setting mode. SHIET.
- Use to select the digit whose value is to be changed. ADVANCE: Use to change the value. While pressing the [SHIFT] button, press this
- button to reset the set data to "0". PRESET Use to enter the changed value and end setting.
- Use as a counter reset button when the [COUNTER] switch is set to "CTL".

(AUDIO DUB) button

Use to perform audio dubbing when the No. 245 <SAMPLING RATE> menu switch is set to "32K".

Cassette loading slot

Load and unload a cassette

2 CONTROLS. CONNECTORS AND DISPLAYS

2-2 Rear panel

AC socket

page 30.

page 30.

connector

center

Connect DC 12 V (XLR 4-pin).

(IREMOTE] connector (JVC bus)

2 DC socket

(U MODEL), AC 220 V - 240 V (E MODEL).

This unit can be activated automatically when power is

supplied according to the setting of f [TIMER] switch.

This unit can be activated automatically when power is

supplied according to the setting of ([TIMER] switch.

See "EXTERNAL TIMER-START FUNCTION" on

This unit can be controlled by the RM-G800 via this

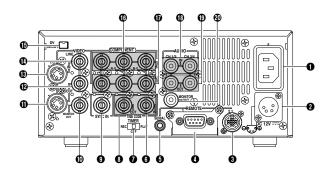
This unit can be controlled by an RS-422 controller.

required. For details, contact your local JVC service

[REMOTE] connector (RS-422 Serial Connector)

This can be changed to an RS-232C interface if

See "EXTERNAL TIMER-START FUNCTION" on



(SYNC IN] connector Connect the provided power cable to supply AC 120 V

Input reference sync signals. IF See "Reference sync signal" on page 12.

- (VIDEO MONITOR OUT) connector Connect a video monitor to check the output video or on-screen display from this unit.
- (I) [Y/C OUT] connector Outputs Y/C signals.
- [LINE OUT] connector Outputs composite signals.
- (Y/C IN] connector Receives Y/C signals
- [LINE IN] connector Receives composite signals.

Receive component signals.

Output component signals.

(AUDIO IN) connectors

(D) [AUDIO OUT] connectors

(COMPONENT OUT) connectors

Receives audio signals (analog).

[DV IN/OUT] connector

Outputs or receives IEEE 1394 standard digital signals. In addition to video, audio and time code signals, control signals can be input or output to/from a personal computer provided with the DV connector (i.LINK), etc.

[REMOTE] connector (SERIAL) COMPONENT IN] connectors

Connect a wired remote control such as the RM-G30 to control this unit

[TIME CODE IN] connector

Input the time code signal from a time code generator to this connector. To use this connector, set No. 413 <TCG SOURCE> menu switch to "EXTERNAL". IF See "TIME CODE: Recording" on page 33.

ITIMER] switch

Use to select the timer operation. REC : Timer recording OFF : Timer function OFF PLAY : Timer playback IF See "EXTERNAL TIMER-START FUNCTION" on page 30.

[TIME CODE OUT] connector

Use to output time code signals During playback, playback data is output while generator data is output during recording.

channel can be selected with the () [AUDIO OUTPUT] switch on the front panel IF See "Audio system connections" on page 13.

The signal level is for Betacam specifications.

The signal level is for Betacam specifications.

Outputs audio signals (analog). The output audio

(a) [AUDIO MONITOR OUT] connector

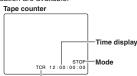
Connect to the audio input of a TV monitor or audio system. The audio channel to be monitored can be selected with the () [AUDIO MONITOR OUT] switch.

2 CONTROLS, CONNECTORS AND DISPLAYS

2-3 On-screen display

The on-screen display can be viewed on a monitor connected to the rear panel's [VIDEO MONITOR OUT] connector when the No. 500 <ON SCREEN> menu switch is set to "ON". Pressing the [MENU] button will bring up the menu switch display regardless of this setting.

Five types of indication are available.



Counter mode

Counter mode indication	Time disulary contents
Counter mode indication	Time display contents
CTL	CTL counter data
TCR	Time code reader data
TCG	Time code generator data
UBR	User bits reader data
UBG	User bits generator data
TIME	Time
DATE	Date
ETCG	External time code generator data
EUBG	External user bits generator data



Hour meter



Tape remaining time



(In case of condensation)

1. Tape counter

The type of data shown on the tape counter display is set with the [COUNTER] switch and menu switch. Related settings [COUNTER] switch (front panel) No. 504 <INFORMATION SELECT> No. 514 <TIME DISPLAY SELECT>

- Mode: Shown when the No. 504 < INFORMATION SELECT> menu switch is set to "MODE + TIME". In this case, the unit's operation status can be checked on the monitor screen.
- Time display: The indications shown in the table on the left are available with the counter mode indication

2. Menu switch

This indication is used to set the menu switch. Shown when the [MENU] button is pressed. Press it once again to restore the previous display. See "MENU SWITCHES" on page 19.

3. Hour meter

Shows the rotating head usage time. Select "HM: HOUR METER" on the menu switch's group select screen.

4. Tape remaining time

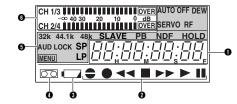
Shows the tape remaining time. Shown when the No. 505 <REMAIN ENABLE> menu switch is set to "ON"

5. Warning message

Automatically shown when an abnormality occurs. See "Warning indicators" on page 46.

2 CONTROLS, CONNECTORS AND DISPLAYS

2-4 LCD display

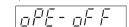


Counter display section

Three types of indications can be displayed in the counter display section (1) Tape counter Normally, the indication selected with the [COUNTER] switch is shown. When the No. 516 < DISPLAY SELECT> menu switch is set to "CLOCK", the time and date are shown. (2) Menu switch In the menu switch setting mode, menu switch items are shown one at a time. רו דו חח 11

(3) Warning code

When this unit malfunctions, the nature of the problem is indicated by an error code. See "Warning indicators" on page 46. In the Operate Off mode, "oPE-oFF" is shown.



2 Tape running indication

- Shows the tape running conditions.
- Audio dubbing mode ●► Recording mode
- Rewind mode
- Stop mode
- ▶▶ Fast-forward mode
- Play mode Pause mode
- Reverse search mode
- ►► ► East-forward search mode

Battery indicator

When this unit is powered by a battery and the battery voltage level drops below the specified value, this indicator blinks ("off" in normal operation), to show that battery voltage is insufficient. This indicator will also blink when the Operate Off mode is engaged (since voltage output from the battery drops in this mode).

Cassette mark

This mark lights to show that a cassette is loaded. This mark is shown even in the Operate Off mode

6 Indicators

Lights when a problem occurs in this unit.
Lights when a condensation occurs.
Lights when the heads are clogged and
the signal level drops.
Lights when the unit's servo system has

stabilized

AUD LOCK: Lights when the video and audio sampling clocks (at 48 kHz) are synchronized in the Play mode. Lights in the Recording mode and EE mode. Does not light when the sampling rate is 32 kHz or 44.1 kHz. Lights in the menu switch setting mode. 32K/44.1K/48K: Shows the frequency of the digital audio signal sampling rate. In the Record and EE modes, the frequency set with No. 245 <SAMPLING RATE> menu switch is shown. In the Play mode, the playback audio signal mode is shown. The 44.1K indication is shown only in the Play mode. Lights when playback signals are output. Lights when the non-drop mode is set for time code. (U MODEL) Lights when the drop mode is set for time code. When the CLOCK mode is engaged for the LCD display in the REC or EE mode, "DF" lights even though the NDF mode is set for time code. (U MODEL) Lights in the time code or user bits setting mode and in the date and time setting mode. Shows the recording or playback speed. Please note that LP mode recording and playback is not possible with this unit. If you try to play back a tape recorded in the LP mode, the "LP inh" indication is shown and the VCR enters the Stop mode. Lights when time code signals are input to the () [TIME CODE IN] connector on the rear panel to synchronize with video input signals. Blinks when they are not in sync with video input signals. * Even though the [SLAVE] indicator lights, time code data from an external time code generator connected to the [TIME CODE IN/OUT] connectors may not be effective. During play The playback time code data is output to the () [TIME CODE OUT] connector. • When the No. 460 <TC DUPLICATE> menu switch is set to "ON", time code data input to the [DV IN] connector is recorded. 6 Audio channel indication Shows the audio channel of the signal output from the rear panel's [AUDIO OUT] connectors. Indication and output signals can be switched with the front panel's [AUDIO OUTPUT] switch only when 32 kHz

MENU

PB:

NDF:

DF:

HOLD:

SP/LP:

SLAVE:

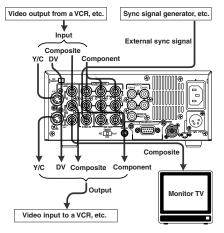
sampling rate signals are played back. In other modes, the indication and output signals are fixed as shown in the table below.

Sampling rate		32K			зĸ	44.1K
Mode	PB/ A.DUB	A.DUB PAUSE	EE/REC	PB	EE/REC	PB
CH 1	0	-	O Fixed	O Fixed	O Fixed	O Fixed
CH 3	0	O Fixed	-	-	-	-
CH 1/3	0	-	-	-	-	-
	PB: Play mode			EE	: EE mod	e

A.DUB: Audio Dubbing mode REC: Record mode

<u>3 CONNECTIONS</u>

3-1 Video system connections



Connecting a monitor

The on-screen display can be viewed on a monitor connected to the [VIDEO MONITOR OUT] connector.

Connecting video equipment

Connect the video device to the appropriate connector (4 types are available).

Outputs

Analog outputs

Composite signal : [LINE OUT] connector (BNC) Component signal (Y/B-Y/R-Y) : [COMPONENT OUT] connectors (BNC x 3)

YC signal : [Y/C OUT] connector (4-pin)

Digital output Digital video signal (conforming to IEEE 1394)

[DV IN/OUT] connector

Inputs

Select input video signals with the front panel's [VIDEO INPUT] switch or the No. 108 <VIDEO INPUT SELECT> menu switch.

Analog inputs

Composite signal : [LINE IN] connector (BNC) Component signal (Y/B-Y/R-Y) : [COMPONENT IN] connector (BNC x 3)

YC signal : [Y/C IN] connector (4-pin)

Digital input

Digital video signal : [DV IN/OUT] connector (conforming to IEEE 1394)

- Note:

 When search pictures or low-quality video signals are input, temporary distortion of picture or sound may occur. Clean up the signals with a TBC or other processing device before inputting.

Reference sync signal

This unit automatically selects the sync signal as shown in the table below, depending on the presence of external sync input (SYNC IN) and video input (VIDEO IN), the No. 003 -SYNC SELECT> menu switch setting and operation mode. When IEEE 1394 input is selected, "INT" is selected regardless of the setting. When the No. 108 <VIDEO INPUT SELECT> menu switch set to "COMPONENT", the operation is the same as that performed with the No. 003 <SYNC SELECT> menu switch set to "AUTO" recardless of the setting.

SYNC IN		No	Yes	No	Yes
VIDEO IN		No	No	Yes	Yes
EXTERNAL	Playback	INT	EXT	INT	EXT
	Recording	INT	INT	VIDEO	VIDEO
AUTO	Playback	INT	EXT	VIDEO	EXT
	Recording	INT	INT	VIDEO	VIDEO

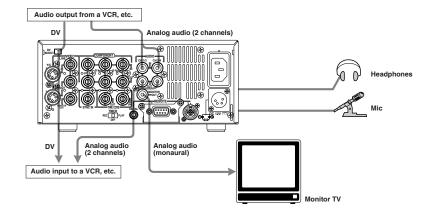
INT: Internal sync EXT: External sync VIDEO: Video sync

– Notes:

- The phase of the output signal cannot be adjusted for external sync signals. The sub carrier cannot be locked.
- Plugging and unplugging the external sync or video signal connector during operation causes distortion in the picture and sound for about 10 seconds.
- When signals input from the composite connector are output from the component connector, color may disappear in some parts of the left section of the monitor screen. This is not a malfunction.
- The set up is not applied to signals input to the [DV IN/OUT] connector and output in EE mode (component, Y/C, composite). Input signals are recorded as is.
- Use a video signal of less than 1 V(p-p) such as a black burst signal for external sync signal.
- When video signals are input to the DV IN/OUT connector, distortion may occur in the lower section of the picture in the EE mode. However, recording is performed normally.
- When the No. 003 <SYNC SELECT> menu switch is set to "EXTERNAL" and no signal is input to the [SYNC IN] connector, noise may appear in the playback picture. This is not a malfunction.

3 CONNECTIONS

3-2 Audio system connections



Connection with a monitor TV

The audio output from the [AUDIO MONITOR OUT] connector is monaural.

Use the front panel [AUDIO MONITOR] switch or No. 211 <AUDIO MONITOR> menu switch to select the audio channels you want to monitor. The selected audio channel is shown in the table below. Adjust the audio volume level on the monitor. III See "Playback preparation" on page 28.

Headphones jack

Audio can be monitored in stereo using the headphones. Use the front panel (AUDIO OUTPUT) switch to select the audio channels you want to monitor. The selected audio channel is shown in the table below. Adjust the audio volume level with the front panel [PHONES] control.

Inputs

Analog inputs

Audio connectors (CH1/3, CH2/4) Analog input connectors are only provided for 2 channels. It is not possible to record 4 channels simultaneously. Audio input from each connector is normally recorded on the CH1 and CH2 channels. Recording on the CH3 and CH4 can be performed in the Audio Dubbing mode with the No. 245 <SAMPLING BATE> menu switch set to "32K".

For audio dubbing, refer to "Audio dubbing" on page 27.

Digital inputs

Digital signals conforming to IEEE 1394 can be input to the [DV IN/OUT] connector. In this case, the audio recording level cannot be adjusted. When audio signals are input to the [DV IN/OUT] connector, some noise will occur at the point where recording ends. To reduce this noise during playback, set the No. 214 <V. FADE> menu switch to "ON".

Mic input jack

Connect a monaural microphone. The same audio is recorded on both channels.

Outputs

Analog outputs

Audio connectors (CH1/3, CH2/4) Analog output connectors are provided for 2 channels. For MinIDV format, use the front panel [AUDIO OUTPUT] switch to select for 4-channel audio. The selected audio channel is shown in the table below. See "Playback preparation" on page 28. Digital outputs

Digital signals conforming to IEEE 1394 are output from the [DV IN/OUT] connector.

Relationship between [AUDIO OUTPUT] / [AUDIO MONITOR] switch and audio output channel

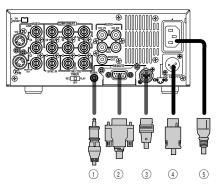
Outing playback with 32 kHz sampling, audio dubbing, and DV input with the 32 kHz sampling in the EE mode) Regardless of setting of this switch. CH1/2 is selected for ordinary recording, record pause and analog audio input in the EE mode. CH3/4 is selected for audio dubbing in the Pause mode.

With the No. 054 <SLIDE SW FUNCTION> menu switch set to "AUDIO".

AUDIO	AUDIO switch		Connector		
MONITOR	OUTPUT	MONITOR OUT		O OUT	
			CH1/3	CH2/4	
	CH1/2	CH1	CH1	CH2	
	Вміх	CH1/3	CH1/3	CH2/4	
	CH3/4	СНЗ	CH3	CH4	
	CH1/2	CH1/2	CH1	CH2	
o MIX	оміх	CH1/2/3/4	CH1/3	CH2/4	
	CH3/4	CH3/4	CH3	CH4	
	CH1/2	CH2	CH1	CH2	
	вміх	CH2/4	CH1/3	CH2/4	
	CH3/4	CH4	СНЗ	CH4	

3 CONNECTIONS

3-3 Other connections



Remote connector

Connect a remote controller to the appropriate connector (three types are available).

Type of connector	Connectable remote controller
(1) [SERIAL] connector	RM-G30
② [REMOTE1] connector	RM-G820
③ [REMOTE2] connector	RM-G800/G805

- Notes:

- Before connecting the RM-G800/G805, be sure to turn the VCR OFF. Do not connect or disconnect the remote cable with the VCR ON.
- When the RM-G805 is connected, the A/B roll editing cannot be performed.

Power sockets

- 2 types of power supply are available (AC, DC).
- DC power supply socket ④ Connect DC 12 V.
- AC power supply socket
- S Connect AC 120 V (U MODEL), AC 220 V 240 V (E MODEL).

Selection of battery type

Set the menu switch according to the type of battery that will be used.

* If the setting does not correspond to the battery type, the battery remaining time and battery alarm will not be correctly displayed.

Note:

 Do not use this unit continuously when the battery indicator is displayed. The unit may not operate properly. Remove the battery to avoid overdischarge.

IF See "396 BATTERY SELECT" on page 22.

Used battery

- The following batteries can be used with this unit.
- Flat shape type
- Anton Bauer Inc.: Trimpack 13 and 14 series Pro Pac 13 and 14 series

• IDX Corporation : NP-L46

3 CONNECTIONS

3-4 Editing system examples

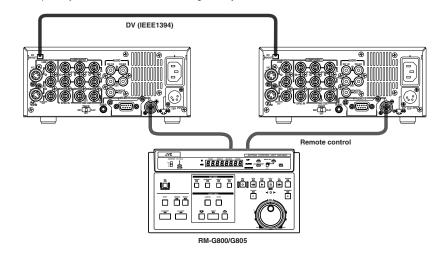
The BR-DV600UA/EA can be used as a feeder for different video formats.

Simplified digital cut editing system

Using an editing remote controller with JVC bus specifications such as the RM-G800/G805, digital cut editing is possible with another MiniDV VCR. When the BR-DV600UA is used as a recorder, the following editing operations cannot be performed.

- Preview
- Insert editing
- EE function (auto EE function)

As the phase sync function does not work, the editing accuracy is ±5 frames.



- Notes: -

- When used in an editing system with the RM-G800/G805, the BR-DV600UA's preroll operation is comparatively slow. This is normal and is not a malfunction.
- When editing, the input signal (picture from the playback VCR) can be monitored. The playback picture of the recorder VCR just before the edit-in point cannot be checked.
- This unit cannot be used for CTL editing. Use for the time code editing.
- During remote control operation, be sure to turn the jog dial slowly. Otherwise, the VCR may not be able to keep up with the operation.
- If editing is started in the Pause mode (still) at the preroll point, editing accuracy may be degraded.
- Use the RM-G800/G805 with the out-point return function OFF. Otherwise, it takes longer to stop editing.
- Use the RM-G800/G805 with the Auto EE mode OFF. Otherwise, the IEEE 1394 "EE inh" error indication is shown.
- When the RM-G805 is connected, the A/B roll editing cannot be performed. (U MODEL)
- Be sure to use this unit with the No. 460 <TC DUPLICATE> menu switch set to "OFF". Otherwise, time code data may be discontinuous at the edit point.

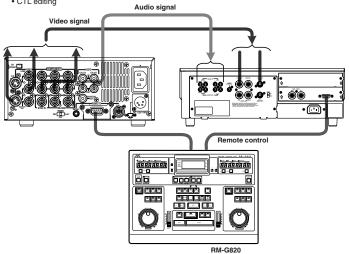
For servicing — See the service manual page 1-6, "1.12 EDITING SYSTEM USING THE BR-DV600"

3 CONNECTIONS

3 CONNECTIONS

Mixed S-VHS/VHS system

- This is an editing system which uses the BR-DV600UA as a feeder/player with an RS-422A serial remote controller such as the RM-G820. In this case, the BR-DV600UA cannot be used as a recorder VCR.
- The S-VHS/VHS VCR can be replaced with a D-9/Betacam VCR. The following editing operations are not available.
- Variable search Slow-motion editing
- CTL editing



Notes:

- Even during the time code editing, the editing accuracy of 0 frame cannot be obtained. Set the remote control's sync grade to ±1 frame.
- During remote control operation, be sure to turn the jog dial slowly. Otherwise, the VCR may not be able to keep up with the operation.

Edit adjust setting

The No. 353 <EDIT ADJUST> menu switch must be adjusted according to the configuration of the editing system being used.

Setting table (when the RM-G800/G805 is used)

Signal connection method	Player	Setting	Recorder	Setting
Analog	BR-DV600UA/EA	0 F	BR-DV600UA/EA	4 F
IEEE 1394	BR-DV600UA/EA	0 F	BR-DV600UA/EA	2 F
Analog	BR-DV600UA/EA	0 F	BR-S800	
Analog	BR-DV600UA/EA	0 F	SR-S365 (U MODEL) SRS388 (E MODEL)	
Analog	BR-S800/BR-S500 (+ SA-N50)*		BR-DV600UA	3 F

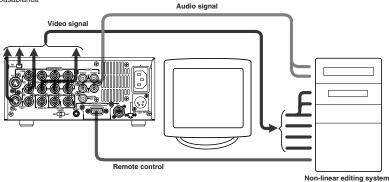
* To ensure the stability of input signals, install the SA-N50 in the BR-DV600UA/EA.

Non-linear editing system

Material recorded on a MiniDV tape can be captured to a non-linear editing system. The following non-linear editing systems are able to utilize Super Scene Finder (SSF) data.

Canopus Corporation: DV Rex RT

Casablanca



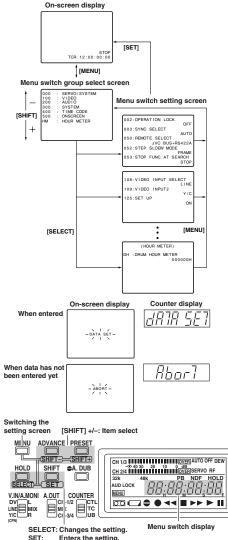
When cue-up operation is not performed normally, set the menu switches as follows. No. 053 <STOP FUNC. AT SEARCH> "STILL" No. 399 <REMOTE FF/REW MODE> "SEARCH"

3 CONNECTIONS

4 MENU SWITCHES

You can set menu switches using either the on-screen display or the counter display. To set switches on the on-screen display, you will need to connect a monitor to the VCR's [VIDEO MONITOR OUT] connector. This section explains how to set switches using the on-screen display. The same procedures apply to switch setting on the counter display, the only difference being that each menu switch item is indicated by numeric code rather than by name.

4-1 Menu switch organization



Menu switch group select screen

Pressing the [MENU] button with the normal screen displayed brings up the menu switch group select screen. Select the desired group with the [SHIFT +/-] button. The selected group number blinks. Press the [SELECT] button to go to the selected group menu switch setting screen.

Menu switch setting screen

To access this screen, press the [SELECT] button on the menu switch group select screen. Press the [MENU] button to go to the menu switch group select screen.

Menu switch setting procedure

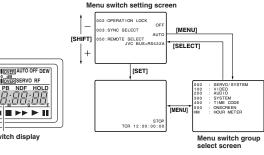
- Press the [SHIFT -/+] button on the menu switch setting screen to select the menu switch you want to set.
- --- The selected menu switch number blinks.

2 Press the [SELECT] button to change the set value.

3 Repeat steps 1 and 2 to change any other menu switches.

✓ Press the [SET] button to end menu switch setting. → The set value is entered and the normal screen is restored. When entering the data, the indications shown on the left are displayed. If data has not been entered and menu switch setting is ended, "Abort" indication is shown.

To access another group menu switch setting screen without ending menu switch setting, press the [MENU] button.



Control via the DV connector When the DV connector is used for control, assemble editing cannot be performed.

• When the VCR is stopped via the DV connector, a command error message may be returned to the controller. This is not a malfunction.

Cable connection to the [DV IN/OUT] connector

- Set the video input to "DV IN" or "IEEE 1394" using either the switch on the front panel or the No. 108 <VIDEO INPUT SELECT> menu switch.
- See "Recording preparation" on page 26.
- * If you switch the video input when the DV connection is active, turn this unit off and on again after changing the setting.

Menu switch settings

- When controlled by another device via the [DV INPUT] connector
- Set the No. 050 <REMOTE SELECT> menu switch to "IEEE 1394", "IEEE 1394 + RS422A", "JVC BUS + IEEE 1394" and "JVC BUS + RS422A + IEEE 1394".
- To record the master tape's time code with the DV-to-DV connection, set the No. 460 <TC DUPLICATE> menu switch to "ON". (IF" See "Time code recording" on page 33.)

Notes:

- Connect the cable after the menu switches have been set and the connected equipment is turned ON. (When the BR-DV600UA/EAs are connected to each other, it is not necessary to turn the power ON.)
- To record the playback VCR's user bits, use the BR-DV600UA/EA as a player.
- When this unit is used with the No. 460 <TC DUPLICATE> menu switch set to "ON", set the No. 416 <NON DROP/
- DROP> menu switch for the tape in the player VCR. (U MODEL)

 When this unit is used with the No. 460 <TC DUPLICATE> menu switch set to "ON", do not connect any device to the
- When this unit is used with the No. 460 < IC DUPLICALE> menu switch set to "ON", do not connect any device to the [TIME CODE OUT] connector.

4 MENU SWITCHES

4-2 Menu switch details

For switch setting procedures, refer to "Menu switch setting procedure".

Factory setting

(00): The number in the bracket shows the set value on the counter display.

002 OPERATION LOCK

Details: Switches the operation lock ON/OFF. Setting:

- OFF (00): The operation lock is OFF: all operations are enabled.
 ON (01): The operation lock is ON: all controls are
- disabled except for the [MENU] button.

003 SYNC SELECT

- Details: Selects the sync signal during play. Setting: EXTERNAL (01): Synchronizes with the signal input to the [SYNC IN] connector. • AUTO (03): Switches the synchronization automatically depending on whether or not a signal is input to the [SYNC IN] connector. For details, refer to
 - page 12.

050 REMOTE SELECT

Details: Selects the remote controller connected to the [REMOTE] connector on the rear panel. When the optional SA-k46 RS-232C interface board is installed at the [REMOTE 1] connector, some setting indications will change. Setting:

- IEEE 1394 (01): Allows control of this unit with the controller connected to the [DV IN/ OUT] connector.
- RS422A (04): Allows control of this unit with the controller connected to the [REMOTE 1] connector. IEEE 1394 + RS422A (05): Allows control of this unit
- with the controllers connected to the [DV IN/OUT] and [REMOTE 1] connectors. JVC BUS (08): Allows control of this unit with the
- Controller connected to the [REMOTE 2] connector. JVC BUS + IEEE 1394 (09): Allows control of this
- to the [REMOTE 2] and [DV IN/ OUT] connectors.
- JVC BUS + RS422A (12): Allows control of this unit with the controllers connected to the [REMOTE 2] and [REMOTE 1]
- connectors. JVC BUS + RS422A + 1394 (13): Allows control of this unit with the controllers connected to the [REMOTE 2], [REMOTE 1] and [DV IN/OUT] connectors.

EEE 1394 (01): Allows control of this unit with the controller connected to the [DV IN/ OUT] connector. Allows control of this unit with the RS232C (02): controller connected to the [REMOTE 1] connector. IEEE 1394 + RS232C (03): Allows control of this unit with the controllers connected o the [DV IN/OUT] and [REMOTE 1] connectors. JVC BUS (08): Allows control of this unit with the controller connected to the [REMOTE 2] connector. JVC BUS + IEEE 1394 (09): Allows control of this unit with the controllers connected to the [REMOTE 2] and [DV IN/ OUT] connectors. JVC BUS + RS232C (10): Allows control of this unit with the controllers connected to the [REMOTE 2] and [REMOTE 1] connectors. JVC BUS + RS232C + 1394 (11): Allows control of this unit with the controllers connected to the [REMOTE 2], [REMOTE 1] and [DV IN/OUT]

(When the optional SA-K46 RS-232C interface

052 STEP SLOW MODE

board is installed)

Details: Selects the advance amount in the STILL mode. Setting: FIELD(00): Field-by-field advance. FRAME (01): Frame-by-frame advance.

connectors.

053 STOP FUNC. AT SEARCH

Details: Selects the operation when the STOP command is received by RS-422A during SEARCH mode.

Setting:

- STOP(00): When the command is received, the stop mode is entered. Normally, use this setting.
 STILL(01): When the command is received, the pause mode is entered.
 - Use this setting when CUE operation fails to work normally when the "STOP" setting is selected.

054 SLIDE SW FUNCTION

Details: Use this to select the function of the [VIDEO INPUT/AUDIO MONITOR] switch. Setting:

AUDIO (00): The [AUDIO MONITOR OUT] connector output can be switched with the [VIDEO INPUT/AUDIO MONITOR] switch.

 VIDEO (01): The [VIDEO INPUT/AUDIO MONITOR] switch functions as [VIDEO INPUT] switch.

4 MENU SWITCHES

Factory setting

108

109

(00): The number in the bracket shows the set value on the counter display.

VIDEO INPUT SELE	
No. 054 <sl switch is set 054 menu sv</sl 	elect the input video signal when IDE SW FUNCTION> menu to "AUDIO (00)". When the No. vitch is set to "VIDEO", the JT] switch on the front panel is
Setting:	
● LINĚ (00):	Selects video signals input to the [LINE IN] connector.
Y/C (01):	Selects video signals input to the [Y/C IN] connector.
COMPONENT (02):	Selects video signals input to the [COMPONENT IN] connector.
IEEE 1394 (03):	Selects video and audio signals input to the [DV IN/OUT] connector. In this case, analog audio signals are not input.
VIDEO INPUT2	
signals when	elect the type of input video the [VIDEO INPUT] switch is CPN)". This switch is effective

set to "V/C (CPN)". This switch is effective when the No. 054 <SLIDE SW FUNCTIONis set to "VIDEO (01)". Setting: • Y/C (00): Selects video signals input to the [V/C IN] connector.

COMPONENT (01): Selects video signals input to the [COMPONENT IN] connectors.

- 125 SETUP (U MODEL)

Details: Sets whether or not the setup is applied to the analog video signals (composite, Y/C, component). Setting:

OFF (00): Does not apply the setup.

 ON (01): Applies the setup. Set to this position to play back a tape recorded on the GY-DV500.

Notes: -

- This setting affects recording and playback of analog video signals.
- Picture hue and brightness can be affected if dubbing is repeated without applying a setup suitable to video signals.
- When video signals are input from the [DV IN] connector, setup signals will not be provided to the DV and analog outputs even if the No. 125 <SETUP> menu switch is set to "ON".
- If you would like to provide set up signals when playback, set menu switch No.108 [VIDEO INPUT SELECT] to LINE, Y/C or COMPONENT position (except IEEE 1394).

See "Recording preparation" on page 26.

211 AUDIO MONITOR

Details: Use this to select which audio channel to output from the [AUDIO MONITOR OUT] connector when the No. 054 <SLIDE SW FUNCTION> menu switch is set to "VIDEO INPUT (01)".

Setting:

- L: Outputs CH1/3 audio signals.
- R: Outputs CH2/4 audio signals.
- •MIX: Outputs CH1/3 and CH2/4 audio signals.

212 AUDIO OUT AT SEARCH

- Details: Selects whether or not audio is output to the [AUDIO OUT] and [AUDIO MONITOR OUT] connectors and headphones jack during search.
- Setting: OFF (00): No output.
- OFF (00): NO OUTPUT.
 ON (01): Audio is output.

214 V. FADE

- V. FADE Details: Switches the V. fade function ON/OFF. V.fade reduces audio noise at the tag recording during playback.
- Setting: OFF (00): The V. fade function is not activated. ON (01): Activates the V. fade function.
- ON (01). Activates the v. lade function

245 SAMPLING RATE

- Details: Selects the sampling rate frequency when recording audio digitally. Setting:
- 32K (00): Records signals at a 32 kHz sampling frequency. Set to this position for audio dubbing on CH3 and CH4.
- 48K (01): Records signals at a 48 kHz sampling frequency. Audio dubbing is not possible with this setting.

311 AUTO PLAY

Details: Selects whether or not playback starts automatically after the tape is rewound to the beginning.

Setting:

 SHORT FF (00): The tape stops after short FF. Auto play does not start.
 PLAY (01): Auto play starts. Repeat playback is available when No. 312 <AUTO REW> menu switch is set to "ON".

4 MENU SWITCHES

- E Factory setting
- (00): The number in the bracket shows the set value on the counter display.

312 AUTO REW

- Details: Selects whether or not the tape is rewound automatically at tape end during recording or playback
- Setting
- OFF (00): The tape is not rewound automatically. ON (01): The tape is rewound automatically. Repeat playback is available when No. 311 <AUTO PLAY> menu switch is set to "PI AY"

353 EDIT ADJUST

- Details: When this unit is used with an editing controller and the edit-in point is shifted, this corrects the play start timing. Switch setting differs depending on the configuration of the editing system. For details, refer to "Edit adjust setting" on page 17. Setting:
- 0F: No compensation.
- 1F:
- The playback start point is delayed by 1 frame. 2F The playback start point is delayed by 2 frames.
- The playback start point is delayed by 3 frames 3F: to the factory set timing. The playback start point is delayed by 4 frames.
- 1F
- 5E The playback start point is delayed by 5 frames.
- 6F The playback start point is delayed by 6 frames.
- 7F: The playback start point is delayed by 7 frames.

360 AUTO REW AT TIMER

- Details: Selects whether or not the tape is automatically rewound when the VCR power is switched ON in the Timer Play or Recording Standby mode.
- Setting
- OFF (00): Playback or recording starts
- immediately. The tape is not rewound. ON (01): Playback or recording starts after the
- tape is rewound to the beginning.

362 BACK UP REC TIMING

Details: For backup recording, set this according to the length of the recording on the tape in the source VCR. For details, refer to "Backup recording function" on page 36.

Setting

- : Backup recording is not performed. • OFF (00) 25MIN (01) : When the length of the recording on the tape in the source VCR. is 30 minutes 55MIN (02) : When the length of the recording on
- the tape in the source VCR. is 60 minutes.
- 75MIN (03) : When the length of the recording on the tape in the source VCR, is 80 minutes

363 CONTROLLER SELECT

Details: Selects the setting according to the type of remote control unit connected via the **RS-422A** interface Setting

• TYPE 1 (00) : For the RM-G820.

TYPE 2 (01): For a non-linear editing system. TYPE 3 (02): For BR-S822 swap and BR-D92 swap. TYPE 4 (03) : Unused.

TYPE 8 (07)

- 396 BATTERY SELECT
 - Details: When using DC power, set this switch according to the DC power supply and battery type Setting:
 - 12 V (00): Select this setting to use a DC power supply (AA-G10) or DC 12 V flat shape type battery. 13.2 V (01): Select this setting to use Anton Bauer
 - Inc.'s Trimpack 13, ProPac 13. 14.4 V (02): Select this setting to use Anton Bauer Inc.'s Trimpack 14. ProPac 14 and IDX
 - Corporation's NP-L46.

FAN STOP SHUTDOWN 397

Details: Sets whether or not VCR operation continues if the fan motor stops.

- Setting: ● ENABLE (00): The power turns off about 1 minute after the fan motor stops.
- DISABLE (01): The VCR continues operation even after the fan motor stops. When the fan motor stops, press the [OPERATE] button as soon as possible to turn the VCR's power off. If not, a malfunction may occur due to overheating

399 REMOTE FF/REW MODE

- Contents: Selects the operation when FF/REW command is received by a REMOTE connector (with the exception of the serial remote connector) during playback. Setting:
- FF/REW(00): The mode becomes the FF/REW mode when the command is received. Normally, use this setting SEARCH (01): The mode becomes the SEARCH mode when the command is received. Use this setting when CUE operation fails to work normally when the "FE/BEW setting is selected.

413 TCG SOURCE

- Details: Selects the time code to be recorded. Setting:
- INTERNAL (0): Uses the time code from the built-in generator. EXTERNAL (1): Uses the time code from the
 - timecode generator connected to the [TIME CODE IN] connector.

4 MENU SWITCHES

 Factory setting (00): The number in the bracket shows the set value on the counter display.

414 TCG SELECT

- Details: Selects the time code generator mode Setting: PRESET (00): Engages the Preset mode.
 - REGEN (01): Engages the Regen mode.

415 TCG MODE

- Details: Selects the time code generator Run mode. Setting: FREE RUN (00): Engages the Free Run mode.
- REC RUN (01): Engages the Rec Run mode.

416 NON DROP/DROP (U MDEL)

- Details: Selects the time code generator Drop Frame mode. Setting:
- Engages the Drop Frame mode. • DRŎP (00): NON DROP (01): Engages the Non-Drop Frame mode

460 TC DUPLICATE

- Details: Selects the time code when the [DV IN] connector is used during recording. Setting
- OFF (0): Records the time code from the built-in or external time code generator ON (1): Records the time code input to the [DV IN] connector

500 ON SCREEN

- Details: Selects whether or not the on-screen display is shown on the monitor. Setting:
- OFF (00): The display is not shown. ON (01): The display is shown.

501 CHARACTER H.POSITION

Details: Moves the display position of the tape counter on screen, etc. horizontally. Setting:

• 0 (00)

The display position can be moved in 9 steps from 0 to 8. The factory setting is "0" (the display position at the far right). 8 (08) * The tape remaining time indication position cannot be changed.

502 CHARACTER V.POSITION

Details: Moves the display position of the tape counter on screen, etc. vertically.

- Setting: 0 (00)
- The display position can be moved in 12 steps from 0 to 11. When the 1 (01)
- No. 504<INFORMATION SELECT> menu switch is set to "MODE + TIME>. 11(11)setting to "0" is not possible. * The tape remaining time indication position on screen can be changed up

and down with this switch.

504 INFORMATION SELECT

Details: Selects which information is displayed on the on-screen display.

Setting: TIME (00) Time data is displayed MODE+TIME (01): Time data and tape running mode are displayed.

505 REMAIN ENABLE

- Details: Selects whether or not the tape remaining time is shown on the on-screen display.
- Setting:
- OFF (00): Remaining time is not shown. ON (01): Remaining time is shown.

514 TIME DISPLAY SELECT

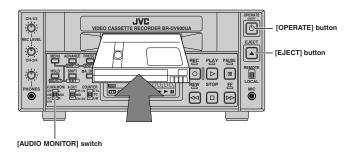
- Details: Selects the type of time data displayed Setting DATE (00): Shows the date. CLOCK (01): Shows the time
 - DATE+CLOCK (02): Shows the date and time. • TC (03): Shows the time code data.

516 DISPLAY SELECT

- Details: Selects the type of data displayed on the tape counter in the LCD display.
- Setting:
- Shows the time code data. TC (00): CLOCK (01): Shows the date and time. You can switch between date and time with the [COUNTER] switch.

PREPARATION 5

Preparing this unit for recording or playback.



Turn the power ON.

Press the [OPERATE] switch. The counter display lights up.

Turn the power OFF

Press the [OPERATE] switch. "oPE-oFF" is shown in the counter display.

Loading/unloading a cassette

Insert the cassette into the cassette loading slot with the window facing up. Push the cassette in slowly until the loading mechanism starts automatic loading. - The VCR enters the Stop mode and the cassette

indicator (💿) lights.

Press the [EJECT] button to eject the cassette. - The cassette tape is ejected.

Audio monitor selection

Set the No. 054 <AUDIO MONITOR> menu switch to "AUDIO" Use the [AUDIO MONITOR] switch to select the audio

channel to monitor (via the [AUDIO MONITOR OUT] connectors).

See "Playback preparation" on page 28.

5 PREPARATION

Built-in clock setting

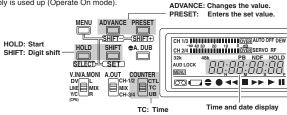
Time data is recorded in the sub code area of the tape during recording. In the Play mode, this data is read out and can be shown on the on-screen display or the counter display.

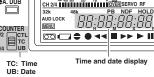
[Reference]

Clock data is retained for about 60 hours after the 6-hour power supply is used up (Operate On mode).

||-]:-]|

1171





Setting procedure

The names of the operation buttons are shown above the buttons

- 1 Set the tape counter display to the time display. Set the No. 516 < DISPLAY SELECT> menu switch to "CLOCK".
- See No. 516 < DISPLAY SELECT> on page 23.

2 Set the [COUNTER] switch to "TC" or "UB". To set the time, set to "TC".

- The time display is shown in the tape counter. . To set the date, set to "UB".
- The date display is shown in the tape counter.

3 Engage the setting mode.

- Press the [HOLD] button.
- · Clock setting
- The hour digit starts to blink.
- Date setting
- The month digit starts to blink. (U MODEL) - The day digit starts to blink. (E MODEL)

4 Change the value.

- Each time the [ADVANCE] button is pressed, the value of the blinking digit increases
- While holding down the [SHIFT] button, press the
- [ADVANCE] button to reset the value as follows.
- Clock setting: "00:00:00" • Date setting: "01:01:2000"

5 Shift the digit. Press the [SHIFT] button.

- · Clock setting: Each time the [SHIFT] button is pressed, the blinking cursor moves in the order of hours -minutes - seconds.
- Date setting: Each time the [SHIFT] button is pressed, the blinking cursor moves in the order of month \rightarrow day → year. (U MODEL), day → month → year. (E MODEL). Repeat steps 4 to 5 to change the values for each diait.

6 Enter the set data.

Press the [PRESET] button to enter the set data.

6 RECORDING

[REC LEVEL] control OPERATE CH-1/3 JVC VIDEO CASSETTE RECORDER BR-DV600UA \bigcirc \bigcirc REC LEVEL -^~**D** EJECT PROFESSIONAL DV \bigcirc MENU ADVANCE PRESET CH-2/4 REC PLAY PAUSE REMOTE \bigcirc HOLD Ð Ð [qo] AUD LOCK 88:88:88 LOCAL REW STOP ES MENU PHONES MIC MIX CH-3/4 $\overline{\triangleleft}$ R ۲ 60 [REC] button [PLAY] button [PAUSE] button [VIDEO INPUT] switch [STOP] button Audio sampling rate setting

Recording preparation

Loading a cassette

Check that the erasure prevention tab is set to allow recording.

Insert the cassette in the cassette loading slot.

Input video signal selection

Select the input video signal with the switch on the front panel or menu switch

Selection with the switch on the front panel Menu switch setting No. 054 <SLIDE SW FUNCTION> VIDEO

V. IN switch	No. 109 <video INPUT2> menu switch</video 	Selected input connector
DV 🛛	Not required.	Selects digital signals input to the [DV IN/OUT].
LINE D	Not required.	Selects composite video signals input to the [LINE IN] connector.
Y/C (CPN)	Select "Y/C".	Selects Y/C signals input to the [Y/ C IN] connector.
Y/C (CPN)	Select "COMPONENT".	Selects component signals input to the [COMPONENT IN] connectors.

* To switch the audio output, use the No. 211 <AUDIO MONITOR> menu

Selection with the menu switch Menu switch setting

No. 054 <SLIDE SW FUNCTION> AUDIO

No. 108 <video INPUT SELECT></video 	Selected input connector
LINE	Selects composite video signals input to the [LINE IN] connector.
Y/C	Selects Y/C signals input to the [Y/C] connector.
COMPONENT	Selects component video signals input to the [COMPONENT IN] connectors.
IEEE 1394	Selects digital signals input to the [DV IN/ OUT] connector.

Select the audio sampling rate with the No. 245 <SAMPLING BATE> menu switch

- The number of usable audio channels is determined by the sampling frequency selected with the No. 245 <SAMPLING RATE> menu switch.
- 32 kHz: 4 channels

In normal recording, signals are recorded on CH1 and CH2. In the audio dubbing mode, signals are recorded on CH3 and CH4. ■ 48 kHz: 2 channels

Signals are recorded on CH1 and CH2. Audio dubbing is not possible

Adjust the audio recording level with the [REC LEVEL] control.

Recording

- Press the [PLAY] button while holding down the [REC] button.
- -+ Recording starts.
- 2 Press the [PAUSE] button to temporarily stop recording. To restart recording, press the [PLAY] button. To stop recording, press the [STOP] button.

Notes:

- If the unit remains in the Pause mode for more than 5 minutes, the Stop mode is automatically engaged to prevent the tape from being damaged. If tape remaining time is less than 3 minutes or the unit is being used in a low-temperature environment, the Stop mode is engaged within about 3 minutes. . When a tape recorded on this unit is played back on a consumer MiniDV VCR, the sound level may be
- low. During recording, the upper section of the picture may
- be distorted or deflect. This is not a malfunction

6 RECORDING

[REC LEVEL] control

OPERATE CH-1/3 JVC VIDEO CASSETTE RECORDER BR-DV600UA \bigcirc $\left[\bigcirc \right]$ REC LEVEL PROFESSIONAL DV -™DV EJECT \bigcirc [▲] ADVANCE PRESET CH-2/4 PLAY PAUSE REC CH 13 1000 CH 13 10 10 10 CH 13 10 CH 14 C REMOTE \bigcirc HOLD Æ Ð (ap e LOCAL REW STOP IN/A.MONI A.OUT COULTE TC $\overline{\triangleleft}$ ۲ R [REC] button [A. DUB] button [PLAY] button [PAUSE] button

[STOP] button

Audio dubbina

Signals can only be recorded on CH3 and CH4.

- 1 Set the No. 245 <SAMPLING RATE> menu switch to "32K".
- Set the video input to a position other than "DV IN". (Audio dubbing is not possible with digital audio input.)
- See "Recording preparation" on page 26.
- 2 Press the [PLAY] button to play back the tape.
- 3 Press the [PAUSE] button at the position from which you want to start recording audio. While holding the [PAUSE] button, press the [A.DUB] button.
- The Audio Dubbing Pause mode cannot be engaged unless the VCR is in the Stop mode. First engage the Stop mode. Then, while holding down the [PAUSE] button, press the [A. DUB] button.
- Audio dubbing

If audio dubbing is disabled for any reason - for example, if a section of tape recorded using 48 kHz sampling is backspaced in the Pause mode - the "Adb inh" indication is shown and the VCR enters the Stop mode

- 4 Adjust the audio recording level with the [REC LEVEL] control.
- 5 Press the [PLAY] button to start audio dubbing.
- Audio signals are recorded on CH3 and CH4. To stop audio dubbing temporarily, press the [PAUSE] button
- 6 To end audio dubbing, press the [STOP] button.

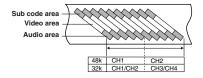
Notes:

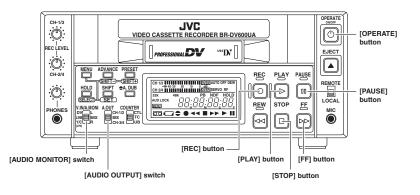
- · Audio dubbing is not possible on tapes recorded with 48 kHz sampling frequency.
- . If audio dubbing is performed repeatedly on a short section of the tape, there may be some noise when this section is played back.
- · For audio dubbing, use a tape recorded with this unit. If another tape is used, first dub it to a tape on this unit. When audio is dubbed on a tape recorded on another VCR (including another BR-DV600UA/EA), sound and picture may be distorted.
- During audio dubbing, noise might be visible on the playback picture. But it is not a trouble of BR-DV600UA/EA. Audio dubbing itself is proceeded normally.
- It is not possible to use the audio dubbing function to record the CH1/2 playback signal on CH3/4 (soundon-sound)

Reference

Recording section on the tape

In the MiniDV format, one video frame consists of 10 tracks. Each track includes recording sections for audio, video and sub code (time code, date, time). As shown in the diagram, the audio recording section provides 2 channels or 4 channels depending on the sampling rate frequency selected. In the Audio Dubbing mode, audio signals are recorded in the CH3 and CH4 section which is created when the 32 kHz sampling frequency is selected.





Playback preparation

- Press the [OPERATE] button to turn the power ON.
- 2 Insert the cassette into the cassette loading slot.

3 Select the audio output channel.

- Select output signals with the switch on the front panel or menu switch.
- Selection with the switch on the front panel
 Menu switch setting No. 054 <SLIDE SW FUNCTION> AUDIO

AUDIO) switch		Connector	
MONITOR	OUTPUT	MONITOR OUT		O OUT
WONTON	001F01	MONITOR OUT	CH1/3	CH2/4
	CH1/2	CH1	CH1	CH2
	• міх	CH1/3	CH1/3	CH2/4
	CH3/4	СНЗ	СНЗ	CH4
	CH1/2	CH1/2	CH1	CH2
	оміх	CH1/2/3/4	CH1/3	CH2/4
	Сн3/4	CH3/4	СНЗ	CH4
	CH1/2	CH2	CH1	CH2
	міх	CH2/4	CH1/3	CH2/4
	CH3/4	CH4	СНЗ	CH4

Selection with the menu switch Menu switch setting

No. 054 <SLIDE SW FUNCTION> VIDEO

Aenu switch	AUDIO		Connector			
No. 211 AUDIO	OUTPUT	MONITOR	AUDIO OUT			
MONITOR>		OUT	CH1/3	CH2/4		
	CH1/2	CH1	CH1	CH2		
L		CH1/3	CH1/3	CH2/4		
	CH3/4	СНЗ	СНЗ	CH4		
	CH1/2	CH2	CH1	CH2		
R	MIX	CH2/4	CH1/3	CH2/4		
	CH3/4	CH4	СНЗ	CH4		
	CH1/2	CH1/2	CH1	CH2		
ΜΙΧ	D MIX	CH1/2/3/4	CH1/3	CH2/4		
	CH3/4	CH3/4	СНЗ	CH4		

Playback

1 Press the [PLAY] button.

- Video and audio signals are output from each output connector. Other data recorded on the tape is read out (time code, user bits, etc.)
- 2 To stop playback, press the [STOP] button.
- **3** To temporarily stop playback, press the [PAUSE] button.
 - For fast-forward playback, press the [FF] button during playback.
- For fast reverse playback, press the [REW] button during playback.
- You can select whether or not to play sound during fast-forward playback or fast reverse playback with the No. 212 <AUDIO OUT AT SEARCH> ON/OFF setting.

Repeat play

I Set the No. 311 <AUTO PLAY> and No. 312 <AUTO REW> menu switches to "ON".

IF See No. <311 AUTO PLAY> and No. 312 <AUTO REW> on pages 21 to 22.

Press the [PLAY] button to start playback. At tape end, the tape is rewound automatically and playback starts again. This operation repeats each time the tape ends.

3 To stop Repeat Play, press the [STOP] button.

Notes:

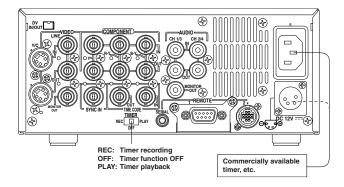
- If audio dubbing is performed repeatedly on a short section of the tape, there may be some noise when this section is played back.
- When a tape recorded on a consumer MiniDV VCR is played back on this unit, the sound level may be low.
- When the Pause mode continues for more than 5 minutes, the Stop mode is automatically engaged to protect the tape. If tape remaining time is less than 3 minutes or the unit is being used in a lowtemperature environment, the Stop mode is engaged within about 3 minutes. The Stop mode is also engaged automatically if slow playback continues for more than 1 minute with the remote controller or reverse slow playback continues for more than 20 seconds.

menu switch.

* To switch video input signals, use the No. 108 <VIDEO INPUT SELECT>

8 EXTERNAL TIMER-START FUNCTION

(AUTOMATIC START-UP WITH POWER SUPPLY)



When power (AC 120 V (U MODEL), AC 220 V - 240 V (E MODEL) or DC 12 V) is supplied to this unit, it automatically enters the Record or Play mode. Using a commercially available timer, you can configure your VCR to start recording or playback at a specified time.

Playback

1 Connect the power cable.

To turn this unit ON with a commercially available timer, connect the power cable plug to the timer's power output socket Set the front panel's [REMOTE/LOCAL] switch to

"LOCAL".

2 Insert a cassette.

3 Set the rear panel's [TIMER] switch to "PLAY".

4 When power is supplied, playback starts automatically. Repeat playback can be set with menu switch setting. IF See No. <311 AUTO PLAY> and No. 312 <AUTO

REW> on pages 21 to 22. With the menu switches set appropriately, the tape can

be rewound to the beginning before starting playback. See No. 360 <AUTO REW AT TIMER> on page 22. 5 Stop playback.

Press the [STOP] button.

Recording

1 Connect the power cable.

To turn this unit ON with a commercially available timer. connect the power cable plug to the timer's power output socket

Set the front panel's [REMOTE/LOCAL] switch to "LOCAL".

2 Select the video input.

- 3 Adjust the audio recording level.
- 4 Insert a cassette.
- 5 Set the rear panel's [TIMER] switch to "REC". ⁶ When power is supplied, the VCR automatically
 - enters the Record mode. Using the menu switches, you can set the VCR to start recording after rewinding the tape to the beginning.
- IF See No. 360 <AUTO REW AT TIMER> on page 22. 7 Stop recording.
- Press the [STOP] button.

Note:

· External timer control should only be used to start VCR operation. Do not use an external timer to turn the VCR power off while the tape is running. Doing so could damage this unit or the tape.

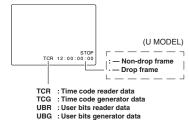
9 TIME CODE

The time code is recorded frame by frame together with the materials to be recorded on the tape. With this time code, the position of the materials can be precisely specified, improving the editing accuracy and working efficiency.

(The editing accuracy of 0 frame may not be obtained even though the time code is used, depending on the performance of the VCR and editing controller and influence of editing system.)

With this system, the time code can be recorded and played back.

On-screen display

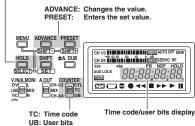


ETCG : External time code generator data EUBG: External user bits generator data

Counter display



HOLD: Start SHIFT: Moves the cursor to the next digit.



Display

Time code can be shown on the counter display and on the on-screen display during playback and recording.

- 1 To display time code data on the on-screen display, set the No. 514 <TIME DISPLAY SELECT> menu switch to "TC".
- IF See No. 514 <TIME DISPLAY SELECT> on page 23.
- ² To display time code data on the counter display, set the No. 516 < DISPLAY SELECT> menu switch to "тс".
- IF See No. 516 < DISPLAY SELECT> on page 23.
- 3 Set the [COUNTER] switch to "TC" or "UB". TC: Shows the time code data display. UB: Shows the user bits display. All time code data including time code generator/reader, drop/non-drop frame, CTL interpolation, etc. are shown on the on-screen display (U MODEL)

Preset

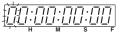
To give you more control over your material in editing and recording, you can specify a preset time code value while referring to the counter display indications. Determine the required time code value beforehand.

- Set the [COUNTER] switch to "TC" so that the counter display shows the time code.
- · Set the [COUNTER] switch to "UB" to show the user bits on the counter display.

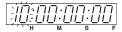
Time code presetting is described below. The same procedure is used to preset the user bits, except that user bit values are hexadecimal (0 to F).

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9 TIME CODE











- Set the menu switches. (IIF See pages 22 and 23.)
 Set the No. 413 <TCG SOURCE> menu switch to "INTERNAL".
 - Set the No. 414 <TCG SELECT> menu switch to "PRESET".
 - Set the No. 415 <TCG MODE> menu switch. Setting is not necessary for user bits. REC RUN: The time code is counted only during recording.
 - FREE RUN: The time code is counted after the preset is complete.
 - Set the No. 416 <NON DROP/DROP> menu switch. Setting is not necessary for user bits. (U MODEL) NON DROP: Engages the Non-Drop Frame mode. DROP: Engages the Drop Frame mode.

2 Press the [HOLD] button to engage the time code setting mode.

-The uppermost digit blinks.

- In Press the [ADVANCE] button to change the value.
 → The blinking number increases.
 Hold down the [SHIFT] button and press the
- [ADVANCE] button to reset all digits to "0".
- The blinking cursor on the digit moves to the right.

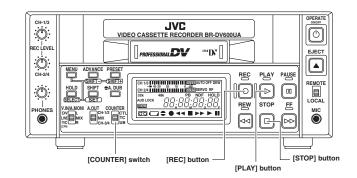
5 To change the digit, repeat steps **3** to **4**.

⁶ Press the [PRESET] button to enter the value.
 → The time code setting mode is released and the

normal display is restored.

7 To check the preset time code, press the [REC] button in the Stop mode.

9 TIME CODE



Recording

Time code recording starts from the preset data. Menu switch setting

No. 413 <TCG SOURCE> "INTERNAL" No. 414 <TCG SELECT> "PRESET" No. 415 <TCG MODE> "REC RUN" or "FREE RUN" No. 416 <NON DROP/DROP> "NON DROP" or "DROP" (U MODEL)

Operation

- 1 Check the preset value.
- Set the [COUNTER] switch to "TC" or "UB".
- In the Stop mode, press the [REC] button. -- Time code data is shown on the on-screen display and counter display. On the on-screen display, the counter mode is shown as "TCG" or "UBG".
- Release your finger from the [REC] button to restore the previous display.

2 Start recording.

- While pressing the [REC] button, press the [PLAY] button.
- → Time code and user bits are recorded. To stop recording, press the [STOP] button

Time code recording follows the time code already recorded on the tape.

Menu switch setting

No. 413 <TCG SOURCE> "INTERNAL" No. 414 <TCG SELECT> "REGEN" No. 415 <TCG MODE> "REC RUN" or "FREE RUN" No. 416 <NON DROP/DROP> "NON DROP" or "DROP" (U MODEL)

Operation 1 Start recording.

- While pressing the [REC] button, press the [PLAY] button.
- → The time code and user bits are recorded following the data recorded on the tape.
- The time code data is shown on the on-screen display and counter display. On the on-screen display, the counter mode is shown as "TCR" or "UBR". To stop recording, press the [STOP] button.

9 TIME CODE

Recording time code from an external time code generator

Menu switch setting
 No. 413 <TCG SOURCE> EXTERNAL

Operation

1 Record.

Press the [PLAY] button while pressing the [REC] button. → The [SLAVE] indicator lights in the LCD display and the time code and user bits from the external time code generator are recorded on the tape. During recording, time code recording continues even after the end of the input regenerated time code.

Input external time code signal synchronized with video signals.

Note on recording time code from the BR-DV600U/E

 To record time code from the BR-DV600U/E, connect the BR-DV600U to the IEEE 1394 connector and follow the procedures shown in "Recording time code data input to the [DV IN] connector".

Playback

Operation

- Select the time code data to be displayed. Set the [COUNTER] switch to "TC" or "UB". → The counter display shows the time code or user bits.
- 2 Press the [PLAY] button to play back the time code and user bits

LTC time code is output from the rear panel's [TIME CODE OUT] connector. VITC time code is not output. The time code data is shown on the on-screen display and counter display. On the on-screen display, the counter mode is shown as "TCR" or "UBR". To stop playback, press the [STOP] button.

Recording time code data input to the [DV IN] connector

Menu switch setting
 No. 108 <VIDEO INPUT SELECT> IEEE 1394
 See "Recording preparation" on page 26.
 No. 416 <NON DROP/DROP> Set according to the time code mode used on the tape in the source VCR. (U MODEL)
 No. 460 <TC DUPLICATE> ON

Operation

1 Record.

Press the [PLAY] button while pressing the [REC] button.

- → The time code on the tape in the source VCR is recorded.
 - Time code input to the [TIME CODE IN] connector is ignored.
- Do not connect any device to the [TIME CODE OUT] connector.

Reference

Playback time code

Time code data is recorded in the sub code area of the tape. During playback, the data in the sub code area is processed in the LTC time code format and output to the [TIME CODE OUT] connector.

Note on time code playback without user bits

- When you play back a tape that has no user bits recorded (for example, a tape recorded on a consumer MiniDV VCR), the user bits that were
- played back last will be displayed.

10 SUPER SCENE FINDER FUNCTION

The SSF data recorded on the tape with the GY-DV500/DV550/DV700W's Super Scene Finder function can be read out by installing the optional SA-K46 RS-232C interface board. Consult your JVC dealer for details on installation of the SA-K46 RS-232C interface board.

Preparation

Connect the 9-pin D-sub connector of the installed SA-K46 RS-232C interface board to a personal computer, etc. with an RS-232C cable. Use a reverse type cable. For RS-232C interface settings,

refer to "RS-232C specifications" on page 36. Set the No. 050 cREMOTE SELECT> menu switch to "RS232C", "IEEE 1394+ RS232C", JVC BUS + RS232C" or "JVC BUS + RS232C + 1394".

Reading out SSF data

Insert the tape on which SSF data is recorded.
 Transmit the RS-232C command D5h: SSF DATA

- SENSE from a personal computer or a non linear editing system.
- → The SSF data is returned from the VCR.

(Display example)

START ID REEL NO.			
SCENE	MARK IN	MARK OUT	CUE
001 M	00:00:00:16	00:00:04:19	
002 M	00:00:06:03	00:00:08:08	
003 C	00:03:15:17	00:03:57:00	
004 C	00:03:58:18	00:05:37:24	00:04:00:21
004 C	00:03:58:18	00:05:37:24	00:04:07:22
004 C	00:03:58:18	00:05:37:24	00:04:18:23
END			

- Note:

 When a tape is recorded from the beginning in this unit, recorded SSF data is erased.

SSF data includes the following items. SSF data 1. Model ID data

Super Scene Finder (SSF) data

- Unique identification code of the recording VCR **2. Reel No.**
- Cassette tape number
- 3. Mark in point data Time code data at the start point specified by pressing the [TAKE] button during shooting in the Mark mode on the JVC Pro camcorder (GY-DV500/DV550, etc.)
- 4. Mark out point data Time code data at the end point specified by pressing the [TAKE] button during shooting in the Mark mode on the JVC Pro camcorder (GY-DV500/DV550, etc.)

5. Cue point data Time code data at the cue points the JVC Pro carncorder (GY-DV500/DV550, etc.) starts and ends recording and the cue point specified by pressing the [TAKE] button during shooting in the Cue mode.

Usage example

You can use SSF data to build a database that will enable you to manage your library of original recordings more efficiently.

By creating a table linking the model ID and reel No. to the recording's title, you can easily search and retrieve a tape.

Recordings

Model ID	Reel No.	Recording title	
0001	0222	'01 athletic meeting	
0002	0100	'01 spring excursion	-Search
0003	0150	'01 Christmas party	
:	:	:	

For example, when you retrieve "01 spring excursion", the model ID (0002) and the reel No. (0100) are also provided. Please note that this function is not provided. The table must be developed by the user.

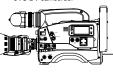
Based on the "mark in point data", "mark out point data" and "cue point data" specified with the JVC Pro camcorder (GY-DV500/DV550, etc.) Super Scene Finder function, you can create batch capture data for a nonlinear editing system (Canopus' DVRex-RT or Casablanca). This allows you to automatically acquire only specified scenes. Batch capture data conversion software for Canopus's DVRex-RT is distributed at no charge on the Internet.

11 BACKUP RECORDING FUNCTION

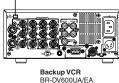
Long-time series recording is possible by connecting other DV recorders in series.

Backup recording

Source VCR DV camcorder GY-DV500/DV550 or JVC DV camcorder



IEEE 1394 connection



When this unit is connected to a DV camcorder (GY-DV500/DV550) via the IEEE 1394, a long-time recording is possible by starting recording in this unit around the time after the recording tape in the source VCR ends.

Preparation

- Connect the [DV] connector of the source VCR to the [DV IN/OUT] connector of this unit.
- Set the [REMOTE/LOCAL] switch to "REMOTE".

Menu switch setting

5	
No. 050 <remote select=""> .</remote>	Select any setting from IEEE 1394, IEEE 1394 + RS422A, JVC BUS + IEEE 1394 and JVC BUS + RS422A + IEEE 1394.
No. 108 <video input="" selec<="" td=""><td>CT> IEEE 1394</td></video>	CT> IEEE 1394
No. 362 <back rec="" td="" timin<="" up=""><td>IG></td></back>	IG>
When the length of the the source VCR is:	recording on the tape in
	30 minutes: 25MIN
	60 minutes: 55MIN
	80 minutes: 75MIN
No. 460 <tc duplicate=""></tc>	OFF
* Video input can also be switch front panel.	ned with the switch on the

See "Recording preparation" on page 26.

Operation1. Start recording with the source VCR.

- * Be sure to start from the beginning of the tape. 2. Recording with this unit starts around the time when the
- tape in the source VCR ends.
 Recording starts at the time set with the No. 362
- <BACK UP REC TIMING> menu switch.
- When you don't need backup, set the No. 362
- <BACK UP REC TIMING> menu switch to "OFF".
 The backup recording function records images from the source VCR on this unit. When backup
- recording starts, continue shooting with the source VCR.

12 RS-232C INTERFACE

12-1 Command tables

This section provides information on programming VCR operations via the RS-232C interface.

Basic table

	0	1	2	3	4	5	6	7	8	9	A	В	С	D	E	F
0		Complete	Error	Cassette Out		Not Target				ACK	NAK					
1																
2																
3											Play	Fwd Shtl x2	Fwd Shtl x0.2	Fwd Shtl Still	Fwd Shtl x10	Stop
4	Enter	Clear Error	CueUp with Data				In Shift +	In Shift -	Out Shift +	Out Shift -	Rev Shtl x1	Rev Shtl x2	Rev Shtl x0.2	RevShtl Still	RevShtl x10	Still
5	In Entry	Out Entry	In Flag Reset	Out Flag Reset	In Flag Recall	Out Flag Recall	Clear		Go-to In	Go-to Out	Memory	Memory Search				
6								Status Sense								
7																
8															Date Preset	Clock Preset
9																
A	Standby On	Standby Off	Preroll	Eject								Ff	Rew	Fwd Field Step	Rev Field Step	
В			CueUp with Data			Fwd Shtl	Rev Shtl								Date Data Sense	Clock Data Sense
С	Auto Edit		Review		Full-EE On	EE Off					Rec	Rec Pause	Adb	Adb Pause		
D						Ssf Data Sense	Preroll Tm Sense	Status Sense	Tc Data Sense	CTL Data Sense	In Data Sense	Out Data Sense	UB Data Sense	JVC Status Sense		
Е	TC Preset	UB Preset	CTL Data Preset	In Data Preset	Out Data Preset	Edit Preset	Preroll Tm Preset	Timer Mode Select						Memory Sw Preset		
F							JVC Tbl 1 Select	Basic Tbl Select	JVC Tbl 2 Select		Rec/Dub Request	Vtr Ind				

JVC table-1

	0	1	2	3	4	5	6	7	8	9	A	В	C	D	E	F
0		Complete	Error	Cassette Out		Not Target					ACK	NAK				
1																
2																
3											Play					Stop
4	Enter	Clear Error					In Shift +	In Shift -	Out Shift +	Out Shift _						Still
5	In Entry	Out Entry	In Flag Reset	Out Flag Reset	In Flag Recall	Out Flag Recall	Clear		Go-to In	Go-to Out	Memory	Memory Search				
6								Status Sense								
7			Rom Version									Operate On	Operate Off			
8															Date Preset	Clock Preset
9																
A	Standby On	Standby Off	Preroll	Eject								Ff	Rew	Fwd Field Step	Rev Field Step	
В			Play After CueUp			Fwd Shtl	Rev Shtl								Date Data Sense	Clock Data Sense
С					Full-EE On	EE Off					Rec	Rec Pause	Adb	Adb Pause		
D		Device Type Request		Memory Sw Sense	Tape Rem Sense			Status Sense	Tc Data Sense	CTL Data Sense				JVC Status Sense		
E			CTL Data Preset	In Data Preset	Out Data Preset			Timer Mode Select						Memory Sw Preset		
F							JVC Tbl 1 Select	Basic Tbl Select	JVC Tbl 2 Select		Rec/Dub Request	Vtr Ind				

12-2 RS-232C specifications

9PIN D-Sub

Pin NO.	Signals	Operations	Direction of signals
2	RXD	Receive data	VTR - PC
3	TXD	Transmit data	VTR → PC
4	DTR	Data terminal ready	VTR → PC
5	GND	Signal ground	
6	DSR	Data set ready	VTR - PC

Note: PC means a controller such as a personal computer.

Mode	: Non-synchronous	s
Character length	: 8 bits	
Parity check	: None	
Start bit	:1	
Stop bit	:1	
Data rate	: 9600 bps	
Bit structure		



ASCII code table

Use this table to express the values or alphabets on the RS-232C interface.

	0	1	2	3	4	5	6	7	8	9	А	В	С	D	Е	F
0			SP	0		Ρ		р								
1 2 3 4				1	А	Q	а	q								
2				2	В	R	b	r								
3				3	С	S	С	s								
4				4	D	Т	d	t								
5				5	Е	U	е	u								
6				6	F	V	f	٧								
7 8				7	G	W	g	W								
8				8	Н	Х	h	х								
9 A B C				9	1	Υ	i	у								
А					J	Ζ	j	Ζ								
В					Κ		k									
С					L		1									
D					Μ		m									
DEF					Ν		n									
F					0		0									

12 RS-232C INTERFACE

12-3 RS-232C commands

An optional RS-232C interface can be installed in this unit and connected to a personal computer. Data transmitted and received via the RS-232C interface enables the PC to control the VCR and gather status and operating information.

Preparation

To control the VCR via the RS-232C interface, set the No. 050
 <code>CREMOTE SELECT></code> menu switch to "RS232C", "IEEE 1394 + RS232C",
 <code>VCC</code> BUS + RS232C" or "JVC BUS + RS232C + 1394".

VCR oj	peration commands	RS232C + 1	1394".		
received		ate the VCR. When the command is ACK (OAh) and enters the mode	(e.g.) Playback	TXD /3Ah RXD 0Al	h/
Com	mands	Description			
3A	PLAY	Play			
3B	FWD X2	2x play			
3C	FWD X0.2	0.2x play			
3D	F-STILL	Pause			
3E	FWD X10	10x play			
3F	STOP	Stop			
4A	REV X1	Reverse play			
4B	REV X2	2x reverse play			
4C	REV X0.2	0.2x reverse play			
4D	R-STILL	Pause			
4E	REV X10	10x reverse play			
4F	STILL	Pause			
58	GOTO IN	Cues up the point specified with the IN When the tape is cued, COMPLETE (01 cannot be found, NOT TARGET (05) is i	1) is returned. Whe		
59	GOTO OUT	Cues up the point specified with the OU When the tape is cued, COMPLETE (01 cannot be found, NOT TARGET (05) is i	1) is returned. Whe		
5B	MEMORY SEARCH	Cues up the point specified with the ME COMPLETE (01) is returned. When the TARGET (05) is returned.			
7B	OPERATE ON	Operating mode ON			
7C	OPERATE OFF	Operating mode OFF			
A0	STANDBY ON	Standby ON			
A1	STANDBY OFF	Standby OFF			
A2	PREROLL	Preroll			
A3	EJECT	Eject cassette			
AB	FF	Fast-forward. When this command is trachanges to 10x.	ansmitted during pl	ayback, playback sp	beed
AC	REW	Rewind. When this command is transm at 10x.	nitted during playba	ck, reverse playback	k start
AD	F-FIELD STEP	Advances one frame. This command sh	hould be transmitte	d in the Play-Pause	mode
AE	R-FIELD STEP	Reverses one frame. This command sh	nould be transmitted	d in the Play-Pause	mode
B2	CUE UP WITH DATA	Use this command to cue up a specified COMPLETION is returned and the Paus To specify the cue point, transmit the tin of 8 bytes with 2 bytes for each) followir	se mode is engaged ne data (hour: minu	d	·
B3	CUE UP AND PLAY WITH DATA	Use this command to cue up a specified When the tape is cued, COMPLETE is r To specify the cue point, transmit the tin of 8 bytes with 2 bytes for each) followin	returned and the Plane data (hour: minu		

Com	mands	Description						
B5	F-SHUTTLE	Shuttle play. The search speed is specified by sending the speed code data after this command (see the table below).						
		Speed code table	(corresponding speed	i)				
		Speed code	Search speed					
		30h	Still					
		31h	0.1					
		33h	0.2					
		34h	0.3					
		35h	1					
		36h	2					
		37h	5					
		38h	10					
B6	R-SHUTTLE		ay. The search speed d (see the table above	is specified by sending the speed code data e).				
C4	FULL EE ON	Full EE mode ON		·				
C5	FULL EE OFF	Full EE mode OFI	=					
CA	REC	Record. Transmit	this command after tra	ansmitting REC DUB REQUEST.				
CB	REC PAUSE	Record pause. Tra	Insmit this command af	ter transmitting REC DUB REQUEST.				
CC	A. DUB	Audio dubbing. Transmit this command during playback after transmitting REC DUB REQUEST.						
CD	A. DUB PAUSE	Audio dubbing pause. Transmit this command during audio dubbing after transmitting REC DUB REQUEST.						
E2	COUNTER RESET	Counter reset						
FA	REC REQUEST	Recording request (use with the recording-related command).						

12 RS-232C INTERFACE

Setting (preset) commands

These commands activate various settings on the VCR. When a command is sent, the corresponding setting is activated.

Commands		Description			
E0	TC DATA PRESET	command digits for e transmitte uppermos	I. Specify each iten ed, the tin st digit.	y the time in order on . When ENTER (4	set, transmit the time data following this of hour, minute, second and frame, using two 40h) is transmitted before all digits have been e specified by entering digits from the REMOTE".
E1	TC UB DATA PRESET	Use to pre	eset the	user bits.	
E6	PREROLL TIME PRESET	Use to set the preroll time. Specify this by transmitting 2-byte data following this command. First byte for ten place and second byte for one place.			
E7	TIMER MODE SELECT			counter mode. Follo he counter mode.	owing this command, send data (1 byte)
		High	Low	Counter mode	
		3	1	TC]
		(fixed)	2	CTL]
			5	UB]
8E	DATE PRESET	Use to set the date. Following this command, send 6-byte numeric data. Specify th month, day and year in order with two digits for each.			
8F	TIME PRESET	Use to set the date. Following this command, send 6-byte numeric data. Specify the hour, minute and second in order with two digits for each.			

Information gathering (sense) commands

These commands are used to check the VCR operation conditions.

When a command requesting information is received by the VCR, data is returned in 1-byte packets corresponding to the information requested. The number of bytes returned differs depending on the command.

Commands		Description		
72	ROM VERSION	Use to check the RS-232C interface-related ROM version. 3-byte data is returned.		
BE	DATE SENSE	Use to check the VCR's date data. The data is returned in order of month, day and year. During playback, the time data on the tape is returned.		
BF	TIME SENSE	Use to check the VCR's time data. The data is returned in order of hour, minute and second. During play, the time data on the tape is returned.		
D1	DEVICE TYPE	Use to check the device type. D:44h, 6:36h, 0:30h, 0:30h		
D4	TAPE REMAIN SENSE	Use to check the tape remaining time. 3-byte data is returned showing the hour (ones place) and minutes (tens place and ones place).		
D5	SSF DATA SENSE	Use to check the Super Scene Finder data.		
D6	PREROLL TIME SENSE	Use to check the preroll time. 2-byte data is returned showing the seconds (tens place and ones place).		
D7	STATUS SENSE	Use to check the status. Refer to the contents of the STATUS SENSE.		
D8	CURRENT TC SENSE	Use to check the time code data. The data is returned in the order of hour, minute, second and frame.		
D9	CURRENT CTL SENSE	Use to check the CTL data. The uppermost digit shows plus or minus.		
DC	CURRENT TC UB SENSE	Use to check the user bits data. Data A from F is expressed with ASCII code 41h to 46h.		
DD	JVC STATUS SENSE	Use to check the status. Refer to JVC STATUS SENSE for details.		
FB	VTR IND	Use to check the VCR connection.		

Contents of STATUS SENSE

When the STATUS SENSE (D7H) command is sent, the following data (5 bytes) is returned.

First byte

First byte			
Bit No.	Status	When the bit is 1	
7	Always 1		
6	Always 0		
5	SHORT FF/REW	During short FF or short REW	
4	REC INHIBIT	Recording is inhibited.	
3	CASSETTE OUT	There is no cassette loaded.	
2	SERVO LOCK	Servo is locked.	
1	Undefined	Always 0	
0	ERROR	An error has occurred.	

Second byte

Status	When the bit is 1	
VIDEO EE	Video output is EE.	
AUD 1 EE	Audio 1 output is EE.	
VIDEO MUTE	Always 0	
AUD 1 MUTE	Always 0	
WARNING	There is a problem with the VCR.	
DEW	Condensation has formed in the VCR.	
TAPE BEGIN	Short FF at the tape beginning	
TAPE END	Short REW at the tape end	
	Status VIDEO EE AUD 1 EE VIDEO MUTE AUD 1 MUTE WARNING DEW TAPE BEGIN	

Third byte

Bit No.	Status	When the bit is 1
7	TIMER PLAY	The [TIMER] switch is set to "PLAY".
6	TIMER REC	The [TIMER] switch is set to "REC".
5	Unused	Always 0
4	Unused	Always 0
3	Unused	Always 0
2	Unused	Always 0
1	SEARCH MODE	The VCR is in the Search mode
0	Unused	Always 0

Fourth byte

Bit No.	Status	When the bit is 1
7	PLAY MODE	The VCR is playing back a tape.
6	FF MODE	The VCR is fast-forwarding a
		tape.
5	REW MODE	The VCR is rewinding a tape.
4	STOP MODE	The VCR is in the Stop mode.
3	STANDBY MODE	The VCR is on standby.
2	EJECT	A cassette is being ejected.
1	REC MODE	The VCR is recording on a tape
0	Unused	Unused

Fifth byte

Bit No.	Status	When the bit is 1	
7	PAUSE MODE	The VCR temporarily stops.	
6	Unused	Always 0	
5	SHUTTLE FWD	The VCR is shuttle-searching in the forward direction.	
4	SHUTTLE REV	The VCR is shuttle-searching in the reverse direction.	
3	SPEED CODE 3	Speed code 3	
2	SPEED CODE 2	Speed code 2	
1	SPEED CODE 1	Speed code 1	
0	SPEED CODE 0	Speed code 0	

Search speed table (corresponding speed only)

Search speed	Speed code (bit No.)			
	3	2	1	0
STILL	0	0	0	0
0.1	0	0	1	0
0.2	0	0	1	1
0.3	0	1	0	0
1	0	1	0	1
2	0	1	1	0
5	0	1	1	1
10	1	0	0	1

12 RS-232C INTERFACE

Contents of JVC STATUS SENSE

When the STATUS SENSE (DDH) command is sent, the following data (4 bytes) is returned.

First byte

	Bit No.	Status	When the bit is 1
Ī	7	Always 1	
I	6	Always 0	
ſ	5	Unused	Always 0
ſ	4	DMF	Always 0
I	3	Unused	Always 0
I	2	JVC TABLE 2	JVC TABLE 2 is effective.
Ī	1	JVC TABLE 1	JVC TABLE 1 is effective.
	0	LOCAL	The [REMOTE] switch is set to "LOCAL".

Second byte

Second byte		
Bit No.	Status	When the bit is 1
7	TC GENERATOR	The time code generator is in the TCG mode.
6	USERS BIT	The counter mode is set to the UB mode.
5	TIME CODE	The counter mode is set to the TC mode.
4	CTL PULSE	The counter mode is set to the CTL mode.
3	CTL interpolation	Always 0
2	DROP FRAME	The current time code is set to the Drop Frame mode. (U MODEL) ALWAYS 0 (E MODEL)
1	LTC	Always 0
0	Unused	

Third byte

Bit No.	Status	When the bit is 1
7	TC REC RUN	The TCG is set to the Rec Run mode.
6	TC REGEN	The TCG is set to the REGEN mode.
5	TC EXTERNAL	The TCG is set to the External mode.
4	TC INSERT LED	Always 0
3	AUD 2 INSERT LED	Always 0
2	AUD 1 INSERT LED	Always 0
1	VIDEO INSERT LED	Always 0
0	ASSEM LED	Assemble mode

Fourth byte

Fourth byte			
Bit No.	Status	When the bit is 1	
7	TBC PWB IN	Always 1	
6	TC PWB IN	Always 1	
5	DA3 INSERT LED	Always 0	
4	DA4 INSERT LED	Always 0	
3	AUTO MODE	Always 0	
2	Unused	Always 0	
1	Unused	Always 0	
0	Unused	Always 0	

Error-related commands

This command is returned when transmitted data cannot be received normally by the VCR. A command to release the error status is also available.

Command	Description
02	ERROR: Returned when the VCR receives an invalid command after the second byte of the transmitted command. In this case, even though commands are sent continuously, no commands can be accepted except STATUS SENSE. To release this error mode, send the following commands.
41	CLEAR ERROR: Clears the last transmitted byte. Use this to release the error mode as well.
56	CLEAR: All commands are canceled. This is also used to release the error mode.
0B	NAK: Returned when the VCR receives an undefined command for the first byte or a command specifying a function not available on the VCR. Releasing the error mode with the CLEAR command is not necessary. Just send a correct command.

* Usage example of CLEAR ERROR Specify the cue-up point at 1:10:10:25.

As this data cannot be specified for the data following the CUE UP WITH DATA, correct the data.



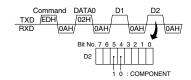
Menu switch setting command

ED MEMORY SW PRESET

Use this command to change the VCR's menu switches. Transmit the data (3 bytes) corresponding to the menu switch to be changed, following this command.

(e.g.) Set No. 108 <VIDEO INPUT SELECT> menu switch to "COMPONENT".

As can be seen in the table on the right, the data corresponding to COMPONENT is DATA0 at 02, D2's bit No. 5 at 1 and bit No. 4 at 0.



Menu switch check command

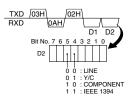
D3 MEMORY SW SENSE

Use this command to check the VCR's menu switch setting. Following this command, transmit the data (DATA0) corresponding to the menu switch to be checked. You can confirm the setting with the returned data (D1, D2).

(e.g.)

Check the No. 108 <VIDEO INPUT SELECT> menu switch setting.

As can be seen in the table on the right, the data corresponding to DATA0 of the menu switch to be checked is 02. You can confirm the setting with the values for bit No. 5 and 4 of the D2 returned data.



12	DC-333C	INTERFACE
14	NJ-ZJZU	INTERFACE

Menu switch No.	DATA0	D1/D2	Set value		6				bit 2	1	0
002	01	D1	OFF	/	0	5	4	5	0		0
			ON						1		
003	01	D2	INTERNAL							0	0
			EXTERNAL							0	1
			VIDEO							1	0
			AUTO							1	1
050	93	D2	IEEE1394		0	0	1	0	0	0	0
			RC232C	0	0	1	0	0	0	0	0
			IEEE1394+RS232C	0	0	1	1	0	0	0	0
			RS422A	0	1	0	0	0	0	0	0
			IEEE1394+RS422A	0	1	0	1	0	0	0	0
			JVC BUS	1	0	0	0	0	0	0	0
			JVC BUS+IEEE1394 JVC BUS+RS232C	1	0	0	1	0	0	0	0
			JVC BUS+RS232C+1394	1	0	1	1	0	0	0	0
			JVC BUS+RS422A		1	0		0	0	0	0
052		D1	JVC BUS+RS422A+1394	1	1	0	1	0	0	0	0
052	93	וט	FIELD		_		_				
			FRAME	_			_			-	1
053	93	D1	STOP			0				-	
			STILL	_		1	-		-	-	-
054	93	D1	AUDIO MONITOR	-	0	-	-		-	-	-
			VIDEO INPUT		1				-	-	-
108	02	D2	LINE		-	0	0		-	-	-
			Y/C			0	1				
			COMPONENT			1	0				
			IEEE1394			1	1				
109	02	D2	Y/C					0			
			COMPONENT		Ľ			1		Ľ	Ľ
125	02	D2	OFF		0					Ľ	
(U MODEL)			ON		1						
211 05	05	D1	L					0	1		Γ
			R					1	0		
			MIX					1	1		
212	05	D1	OFF				0				
			ON				1				
214	05	D1	OFF			0					
			ON			1					
245	03	03 D2	32K							0	0
			48K							0	1
311	10	D2	SHORT FF			0				-	\vdash
			PLAY	-		1				\vdash	F
312	08	D1	OFF	-		1	0			\vdash	\vdash
			ON				1				F
353	89	D1	OF	-		0	0	0		\vdash	F
			1F	-		0	0	1		\vdash	F
			2E		-	0	1	0		-	-
			3F		-	0	1	1		-	-
			4F		-	1	0	0	-	-	-
			5F	-	-	1	0	1	\vdash	-	-
			6F	-	-	1	1	0	\vdash	-	-
			7F	-	-	1	1	1	\vdash	-	-
360	90	D1	OFF	-	-	Ľ	Ľ	0	-	-	-
	30		OFF	-	-	-	-	1	-	-	-
362	90	D1	OFF	0	0	-	-	<u> </u>	-	-	-
502	30		25MIN	0	1	-	-	-	-	-	-
			55MIN	1	0	-	-	-	-	-	-
			75MIN	1	1	-	-	-	-	-	-
363	90	D2	75MIN TYPE 1	-	1	-	-	-	0	0	
303	30	02	TYPE 2	-	-	-	-	-	0	0	0
				-	-	-	-				
			TYPE 3	-	-	-	-	-	0	1	0
			TYPE 4	-	-	-	-		0	1	1
			TYPE 5	-	-	-	-	-	1	0	0
			TYPE 6	-	-	-	-	-	1	0	1
			TYPE 7		-	-	_		1	1	0
396	91	D2	12V							0	0
			13.2V							0	1
			14.4V			L			L	1	0
397	91	D2	ENABLE						0		
			DISABLE						1		
399	93	D1	FF/REW	0							
			SEARCH	1							
413	81	D2	INTERNAL							0	
.			EXTERNAL	-					+	1	-
414	81	D2	PRESET	-	-	-	-	0	+	ŕ	-

Menu switch	DATAO	D1/D2	Set value	C	orre	spo	ond	ing	bit	valı	J
No.				7	6	5	4	3	2	1	1
415	81	D2	FREE RUN				0			1	
			REC RUN				1				
416	81	D2	DROP			0					
(U MODEL)			NON DROP			1					
460	78	D1	OFF		0						
			ON		1						
500	01	D1	OFF					0			
			ON					1			
501	82	D1	0					0	0	0	
			1					0	0	0	
			2					0	0	1	
			3					0	0	1	
			4					0	1	0	
			5					0	1	0	
			6					0	1	1	
			7					0	1	1	
			8					1	0	0	
502	82	D1	0	0	0	0	0				
			1	0	0	0	1				
			2	0	0	1	0				
			3	0	0	1	1				
			4	0	1	0	0				
			5	0	1	0	1				
			6	0	1	1	0				
			7	0	1	1	1			1	
			8	1	0	0	0			1	1
			9	1	0	0	1				
			10	1	0	1	0				
			11	1	0	1	1				
504	82	D2	TIME					0	0		
			MODE+TIME					0	1		
505	82	D2	OFF				0			t	
			ON				1			t	
514	83	D2	DATE						0	0	
			CLOCK						0	0	
			DATE+CLOCK						0	1	
			TC						0	1	
516	83	D2	TC	0					1	1	
			CLOCK	1	-	-	-	-	-	1	

13 TROUBLESHOOTING

13-1 Warning indicators

If the unit malfunctions during operation, the built-in self-diagnostics system identifies the problem and displays a warning message on the monitor and/or the counter display. Also, the [AUTO OFF] indicator may be shown on the LCD. In this case, turn the power off and then on again to restore operation. If the [AUTO OFF] indicator appears again, the VCR may require repair or adjustment. Consult your local JVC dealer.

The VCRS built-in microprocessor is susceptible to interference from externally generated noise or electro-magnetism. In this case, turn the main power (AC and DC power supplies) off, turn on again and check the operation.

On-screen display	Error contents	Operation	Solution
Counter display			
CONDENSATION ON DRUM	Condensation on the drum.	When a cassette is not loaded, the drum starts to	Wait for the drum to stop rotating, then load a
lights.		 votate. When a cassette is loaded, the AUTO OFF mode is engaged and the operation stops. 	cassette. Do not use the unit until the AUTO OFF mode is disengaged.
	Tape cannot be loaded.	Operation stops. No operations are possible.	Turn the power on again. In some cases, the tape may be damaged, so use a different tape. If the problem persists, consult your JVC dealer.
FAILURE UNLOADING	 Tape cannot be unloaded. Tape is jammed. 		
CASSETTE EJECT FAILURE	The eject operation is abnormal.		
LOUSING FAILURE	The cassette housing is abnormal.		
TAPE DEFECTIVE	The tape is broken.	-	
TAPE DEFECTIVE	The tape is slack.		
Err 5702	The tape end sensor is abnormal.		
BEGIN LEADER DETECTION	The tape beginning sensor is abnormal.	-	
Err 700 I	The drum rotation stops.		
Err7101	The capstan rotation stops.		

13 TROUBLESHOOTING

On-screen display Counter display	Error contents	Operation	Solution
SUP REEL FAILURE	The supply reel rotation is abnormal.	Operation stops. No operations are possible.	Turn the power on again. In some cases, the tape may be damaged, so use a different tape. If the problem
	The takeup reel rotation is abnormal.		persists, consult your JVC dealer.
	System controller reference signal failure.	Operation stops. No operations are possible.	Turn the power on again.
PC TAPE INHIBIT	A data tape for personal computer is used.	Operation continues.	Use a tape on which NTSC (U MODEL), PAL (E MODEL signals are recorded.
LP_INHIBIT	A tape recorded in the LP mode is played back.	Operation stops.	Use a tape recorded in the SP mode.
<u>вес ілнівіт</u> гЕс ілн	The cassette's safety slide is set to "SAVE". Copy-guarded signals are input.	Operation stops.	Set the safety slide to "REC" Copy-guarded signals canno be recorded.
<u>1394 INHIBIT</u> 394 ההו 1394 ה	No signal is input to the [DV IN/OUT] connector. Copy-guarded signals are input.	Operation stops.	Input signals to the [DV IN/ OUT] connector. Copy-guarded signals canno be recorded.
ее снеск ілнівіт ЕЕ ілЬ	When the IEEE 1394 input is selected, the EE check is performed.	Operation continues.	When the IEEE 1394 input is selected, the EE check cannot be performed.
audio dub inhibit Adb inh	The cassette's safety slide is set to "SAVE". The tape was recorded with the 48 kHz sampling rate. The No. 245 <sampling RATE> menu switch is set to "48K". Audio dubbing was attempted on a tape recorded in the LP mode. The video input is set to "DV IN".</sampling 	Operation stops.	Set the safety slide to "REC" Use a tape recorded at the 32 kHz sampling rate. Set the No. 245 <sampling RATE> menu switch to "32K". Audio dubbing cannot be performed on tapes recorded in the LP mode. Set the video input to a position other than "DV IN". LIP see "Audio dubbing" on page 27.</sampling
<u>ssfinhibit</u>	SSF data error occurs.	Operation continues.	Use a tape on which SSF data has been properly recorded.
FAN MOTOR FAILURE FAn 5EaP	The fan motor stops.	Operation stops about 60 seconds after the fan motor stops (with the No. 397 <fan STOP SHUTDOWN> menu switch set to "ENABLE").</fan 	Consult your nearest JVC dealer.
HEAD CLOG	The video head is clogged.	The operation continues.	Clean with a dedicated head cleaning tape. Refer to page 7.

13 TROUBLESHOOTING

13-2 Other problems

Symptoms	Causes	Action
The VCR's controls are not functioning.	The [REMOTE] switch is set to "REMOTE". The No. 002 <operation lock=""> menu switch is set to "ON".</operation>	 Set the [REMOTE] switch to "LOCAL". Set the No. 002 <operation lock=""> menu switch to "OFF".</operation>
On-screen display does not come up.	The monitor is not connected to the [MONITOR OUT] connector. The No. 500 <on screen=""> menu switch is set to "OFF".</on>	Connect the monitor to the [MONITOR OUT] connector. Set the No. 500 <on screen=""> menu switch to "ON".</on>
Noise appears on parts of the playback picture.	The heads are dirty.	Read the instructions on page 7 and clean the heads.
Tape counter does not run.	The counter does not run on a non- recorded section of the tape. The menu switch setting mode is engaged.	Press the [MENU] button and restore the normal mode.
The input video image is not output.	 Check the input switch settings on the front panel or menu switch to ensure that they are correct. 	Read "Recording preparation" on page 26 and check the setting.

VC-G8030 remote extended cable

controllers. The cable length is 3 m.

This extended cable is for use with the RM-G800 remote

14 APPENDIX

14-1 Optional equipment

SA-K46 RS-232C interface board

With this board connected to this unit and a personal computer, you can control the VCR from a personal computer. Use a reverse-type cable. For installation and uninstallation, consult your JVC dealer.

RM-G30 wired remote control

This remote control allows you to control all basic VCR operations such as PLAY, RECORD, PAUSE, FF, etc.

YC video cables

These cables are used to transmit YC video signals. The following types are available.

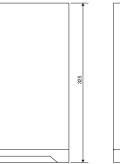
Types	Input	Output	Length
VC-G30	4-pin	4-pin	3 m
VC-G50	4-pin	4-pin	5 m
VC-G3030	4-pin	7-pin	3 m
VC-G2030	7-pin	4-pin	3 m
VC-G2050	7-pin	4-pin	5 m

15 SPECIFICATIONS

General		Audio input	
Power		Line	: –8 dBs, 10 kΩ, unbalanced
requirements	: AC 120 V (U MODEL), AC 220 V -	Mic	: -67 dBs, 3 k Ω , unbalanced
requiremente	240 V (E MODEL), 50 Hz/60 Hz,	Audio output	. 67 025, 6 122, 01150101000
	DC 12 V (11 V to 17 V)	Line	: –8 dBs, 1 kΩ, unbalanced
Power		Headphone	: – infinity to –17 dBs, 8 Ω ,
consumption	: 30 W (U MODEL), 280 mA (E MODEL)	ricadphone	unbalanced
Dimensions	: (W) 212 mm x (H) 88 mm x (D) 325 mm		dibulariood
	(8-3/8" x 3-1/2" x 12-13/16")	[Time code]	
Weight	: Approx. 3.6 kg (7.9 lbs.)	Input	: 0 dBs ± 3 dBs, high impedan
Temperature	FF	= input	unbalanced
Operating	: 5°C to 40°C (41°F to 104°F)	Output	: 0 dBs \pm 3 dBs, low impedance
Storage	: -20°C to 60°C (-4°F to 140°F)	- • • • • •	unbalanced
Humidity			anbalanooa
Operating	: 30% to 80% RH	[DV interface]	
Format	: MiniDV format	Input/output	: IEEE 1394
Signal format	: NTSC (U MODEL), PAL (E MODEL)		
Usable tape	: MiniDV tape	[Connectors]	
Tape width	: 6.35 mm	RS-422 interface	a: Doub 9 pip
Tape speed	: 18.812 mm/s (SP mode) (U MODEL)	JVC bus	e . D-sub 9-pin
	18.831 mm/s (SP mode) (E MODEL)	connector	: DIN 12-pin
Record/play		connector	. DIN 12-pill
time	: 60 minutes (with an M-DV60ME	Accessories	
	tape, only in the SP mode)	AC cable x 1	
FF/rewind time	: Within 120 s (with an M-DV60ME tape)	Head cleaning tape	v 1
		Head cleaning tape	X I
[Video]		Option	
Video signal		SA-K46U RS-232C	interface board
recording		3A-R400 N3-2320	Interface board
format	: 8-bit, 13.5 MHz, 4:1:1 component	Design and specific	ations subject to change withou
	recording (U MODEL)	Design and specific	allons subject to change withou
	: 8-bit, 13.5 MHz, 4:2:0 component		
	recording (E MODEL)	Dimensions (unit: r	nm)
Sampling			
frequency	: Y: 13.5 MHz, R-Y/B-Y: 3.375 MHz (U MODEL)		
Video inputs			
	e: 1.0 V (p-p), 75 Ω		
Analog Y/C	: Y: 1.0 V (p-p), 75 Ω		
	C: 0.286 V (p-p), 75 Ω (Burst) (U MODEL) C: 0.3 V (p-p), 75 Ω (Burst) (E MODEL)		
	it: Y: 1.0 V (p-p), 75 Ω		
Analog componer	R-Y/B-Y: 0.7 V (p-p), 75 Ω		
External sync	11 1/B 1:0:/ V (p p), /0 12		32
input	: 1.0 V (p-p), 75 Ω		
Video output	. 1.0 V (p p), 70 22		
	e : 1.0 V (p-p) (setup can be switched		
	ON/OFF with a menu switch [U		
	MODEL]), 75 Ω		
Analog Y/C	: Y: 1.0 V (p-p) (setup can be		
3	switched ON/OFF with a menu		
	switch [U MODEL]), 75 Ω		
	C: 0.286 V (p-p), 75 Ω (Burst) (U MODEL)		
	C: 0.3 V (p-p), 75 Ω (Burst) (E MODEL)		
Analog component	: Y: 1.0 V (p-p) (setup can be	Ŏ U	
	switched ON/OFF with a menu		
	switch [U MODEL]), 75 Ω		õõõ I ⁸
	R-Y/B-Y: 0.7 V (p-p), 75 Ω	THERE	ë j
Horizontal			
resolution	: 500 lines or more	4 ²⁷ →	27
[Audio]		212	_
Audio signal		1	
	t : 16-bit, 48 kHz for two channels or		
recording forma	12-bit, 32 kHz PCM for four channels		
Frequency			
response	· 20 Hz to 20 kHz (48 kHz 16 bits)		

response : 20 Hz to 20 kHz (48 kHz, 16 bits) , 8 Ω, impedance, impedance,

ge without notice.



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