

PROFESSIONAL **U VCR S**

JVC[®] CR-4900U

VIDEOCASSETTE RECORDER

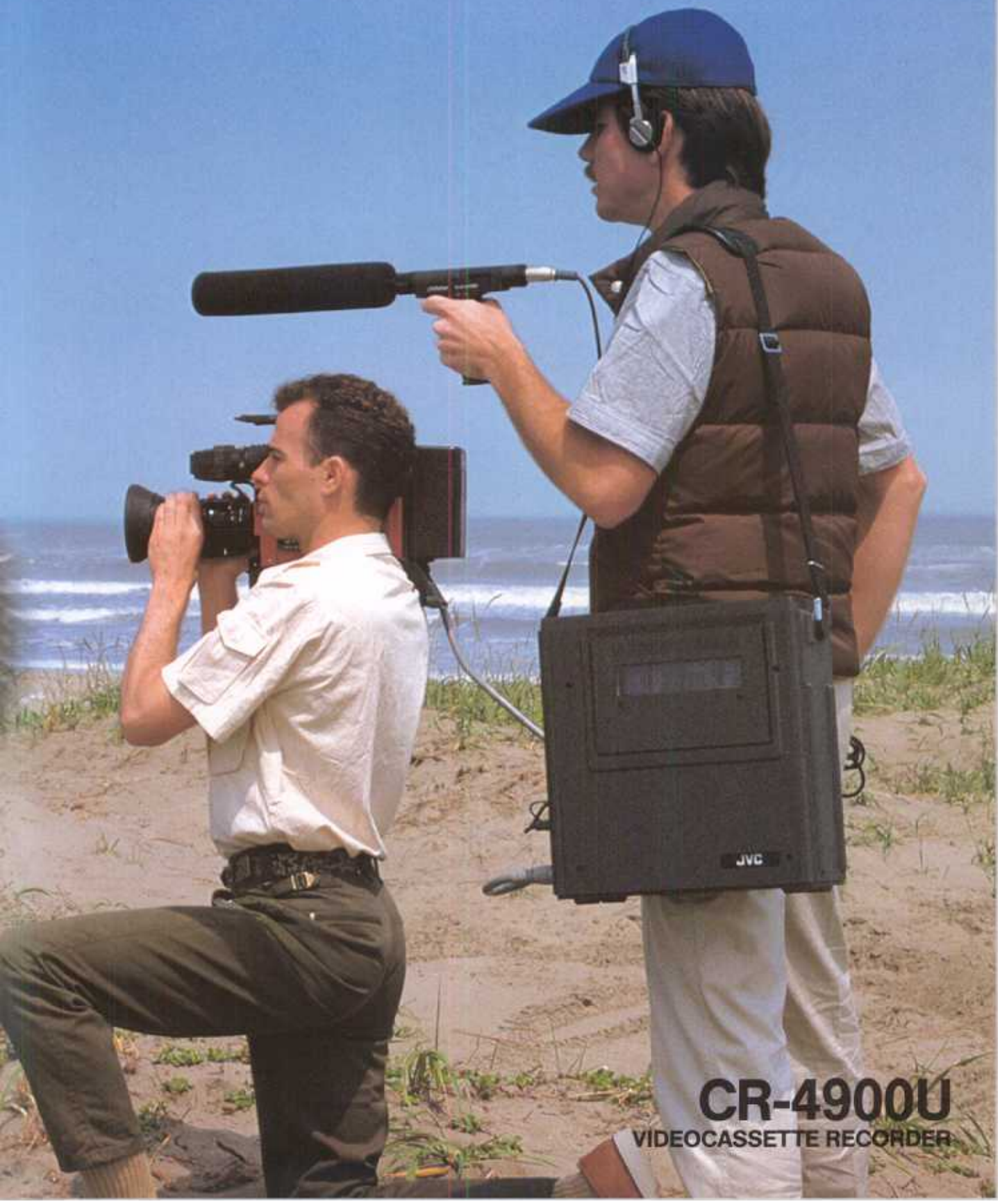


Prompt Professional Response to Fast-Breaking Action

Because 3/4" video tape is the standard for many professional producers, the demand for a high-quality portable VCR continues to rise. In meeting this demand, JVC, committed to the U-format system since its conception, is proud to announce the CR-4900 — an advanced U-format VCR with Video Confidence heads. With many powerful features, the CR-4900 provides prompt professional response to fast-breaking action when first-time quality results are a top priority.



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precision to the amount of recording time left. The counter check light button makes it easier to check the readings in any situation. An identical 4-digit LCD tape counter is provided on the optional remote control unit.

Comprehensive warning system

To ensure trouble-free operation and quality recordings,

LED indicators are provided to warn of servo lock failure, clogged heads, tape end and automatic shut-off due to moisture condensation and other possible problems. When any of the indicators lights or flashes, beeps can be heard in the output from the audio monitor jack. A meter and an LED indicator for battery power are also provided.

Twin audio level meters

Independent audio level meters are provided for channels 1 and 2. The audio levels of the two channels can therefore be separately adjusted. Switchable audio limiting is also provided and manual level control is possible even when the limiter circuit is on. A three-position switch allows audio monitoring of channel 1 or 2 or the mixed sound of the two.

Professional-standard connectors for both video and audio

XLR audio connectors, the type most commonly used on professional audio equipment, are used for line inputs and outputs. In addition to standard BNC video input/output connectors and a 14-pin camera socket, BNC sync and sub-carrier connectors are provided to allow connection of a time base corrector (TBC).

Visual search

In playback, the picture can be seen with the tape running in either direction at about 10 times normal speed, for high-speed location of any section of the program.

Other features

- Audio dubbing on channel 1
- Soft cassette eject mechanism
- Hour meter for indicating the running total of operating hours



Connector panel



CR-4900U VIDEOCASSETTE RECORDER

AND ADDITIONAL ASSIGNMENTS

Video Confidence heads

Just hoping for a perfect recording is a thing of the past. It's no longer a chancy proposition with JVC Video Confidence heads. The CR-4900 is an advanced 3/4" U-format recorder equipped for off-tape monitoring of the signal while recording is taking place. Since you have on-the-spot monitoring access to the recorded signal, you can be sure of the result. This is what our Video Confidence heads are all about. Alternating between real-time monitoring and E-E picture is done simply with a switch on the connector panel.

SMPTE time code capability

With the optional TG-P47U Time Code Generator connected, the SMPTE time code — an eight-digit address — can be recorded on the tape, enabling exact-frame access for precise editing.

Low power consumption

Using two battery packs, one installed in the slide-in compartment and the other connected externally, up to 70 minutes of continuous recording is possible when used with a JVC KY-series camera. Recharging of battery packs is possible using the optional multi-charger that charges four battery packs simultaneously. (For more details see back page of this brochure.)

Lightweight portable

Complete with its rechargeable NB-P2U battery pack and a KCS-20 videocassette, the CR-4900 weighs only 19.6 lbs. Such mobility is a major benefit on almost every assignment.

Video recording current adjustment

To compensate for sensitivity differences between tapes, it is necessary to adjust the recording current to match each individual tape. The CR-4900 is equipped with an RF level meter (switchable from audio-1 level meter) and a potentiometer for adjustment. While recording is taking place (and preferably while monitoring the off-the-tape picture), adjustment can be made. When the RF level meter reaches maximum deflection, the recording current is optimum.

Microprocessor-based logic control

All tape operations are controlled by a microprocessor. This makes it possible to use feather-touch operation buttons and also facilitates remote control using the optional remote control unit. Each

selected operation mode is clearly shown by LEDs incorporated in the operation buttons.

Automatic backspace editing

Whenever the recorder enters the pause mode in response to the front panel pause button, the remote control unit's pause button or the camera's start/stop switch, the tape is back-spaced. Then, when recording starts again, the control track previously recorded on the tape is read so that the subsequent recording is correctly synchronized.

Frame servo editing

The built-in frame servo mechanism allows frame-to-frame editing.

Real-time tape counter

The 4-digit LCD tape counter shows the amount of tape that has run in minutes and seconds. This provides reference with a fair degree of



Control panel

BRINGS CONFIDENCE QUALITY TO PROFESS

SPECIFICATIONS

Format: U-standard

Video Recording System: Rotary two-head, helical scan system

Video Signal System: NTSC-type color, 525 lines

Maximum Recording Time: 20 min. (KCS-20)

Tape Speed: 9.53 cm/s

Power Requirements: 12 V ---

Power Consumption: 12 watts (Recording)

15 watts (Real-time monitoring)

19.3 watts (Max.)

Temperature: Operating: 0°C to 40°C (32°F to 104°F)

Storage: -10°C to 60°C (14°F to 140°F)

Operating Position: Horizontal or Vertical

Video Signal

Input: 0.5 V to 2.0 Vp-p, 75 ohms, unbalanced

Output: 1.0 Vp-p, 75 ohms, unbalanced

Signal-to-noise Ratio: More than 46 dB (Rohde & Schwarz noise meter)

Horizontal Resolution: More than 260 lines

SC Input: 2.0 Vp-p; 75 ohms, unbalanced

Sync Input: 4.0 Vp-p, 75 ohms, unbalanced

Audio Signal

Input: Mic -60 dBs, 600 ohms, balanced

Line -20 dBs/-60 dBs, 600 ohms, balanced

Output Level: 0 dBs, low impedance, balanced

Headphone Output: Variable between -20 and -40 dBs, 8 ohms load, unbalanced

Signal-to-noise Ratio: More than 48 dB

Frequency Response: 50 Hz to 15,000 Hz

Time Code

Input: More than 1 Vp-p, 10 k-ohms, unbalanced

Output: 2.2 Vp-p, low impedance, unbalanced

Connectors

Video/SC/Sync input/output: BNC

Audio LINE IN/OUT: XLR

Mic: LINE IN connectors are used for connecting microphones

Headphones: 6-mm jack

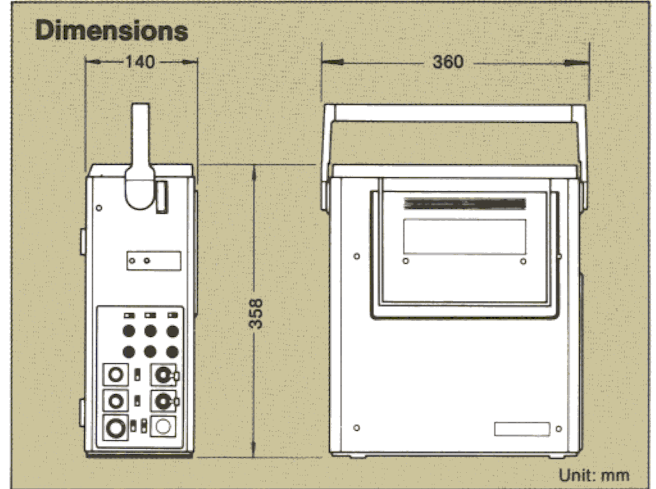
Time code input/output: 12-pin connector

Dimensions: 349(W) x 139(H) x 352(D) mm
(13-3/4" x 5-1/2" x 13-7/8")

(handle and protrusions not included)

Weight: 8.9 kg (19.6 lbs.) (with NB-P2U Battery Pack and a KCS-20 videocassette)

Standard accessories: NB-P2U Battery Pack, Carrying Handle, Shoulder Strap



OPTIONAL ACCESSORIES

 <p>RM-P47U Remote Control Unit Controls all functions of the CR-4900 except audio dubbing and cassette ejection. Equipped with a 4-digit LCD tape counter.</p>	 <p>NB-P2U Rechargeable Battery Pack</p>	 <p>AA-P47U Battery Charger/AC Adapter Charges four NB-P2U battery packs either in sequence (taking 90 minutes per battery pack) or simultaneously (in a total of 10 hours).</p>
 <p>TG-P49U Time Code Generator</p>	 <p>BA-P47U External Battery Case Used to attach one battery pack to the side of the recorder. Both battery packs, internal and external, operate in parallel to prolong the recording time.</p>	 <p>CB-P47U Carrying bag</p>

WARNING TO PURCHASERS:
The unauthorized recording of copyrighted broadcast programming for commercial purposes may be copyright infringement.

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JVC COMPANY OF AMERICA
PROFESSIONAL VIDEO COMMUNICATIONS DIVISION
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