

## Features

### 4:2:2 component digital processing and mild 3.3:1 compression for superior multi-generation picture quality.

#### COMPONENT DIGITAL

# 4:2:2

DIGITAL S's outstanding picture quality is derived from 8-bit, 4:2:2 component processing. Maintaining excellent resolution and colour detail over multiple generations, DIGITAL S's wide-band component recording system delivers horizontal resolution of 720 pixels or 540 TV lines. A low compression ratio of 3.3 to 1 assures virtually transparent multi-generation editing and digital search capability. And DCT-based intra-frame coding with a data recording rate of 50 Mbps keeps artefacts to a minimum while assuring reproduction of the most minute colour details and the subtlest contrasts.

### High-quality 2-channel digital sound with 16-bit, 48 kHz sampling

DIGITAL S's audio specs are equally impressive. The BR-D750E can record two independently editable, 16-bit PCM (pulse code modulation) signals with a sampling frequency of 48 kHz, ensuring audio quality equal to today's most exacting standards.

### Maximum recording time of up to 104 minutes



High-resolution DIGITAL S signals are captured and preserved on a high-density 1/2-inch tape featuring an advanced metal-particle formulation based on W-VHS HDTV technology. Tape speed is 57.8 mm/s with a maximum recording time of 104 minutes.

### Powerful editing facilities

The advanced capabilities of JVC's DIGITAL S bring a new world of powerful editing features to your edit suite. Editing features include one auxiliary audio (cue) track and built-in time code (VITC/LTC) recording. Frame-by-frame editing is facilitated by independent video and two-channel audio editing capability. For even more editing flexibility, you can connect these units to a non-linear editing system.

### TBC adjustment

System phase, SC phase and video phase can be adjusted on the front panel while video level, chroma phase, chroma level and pedestal level can be adjusted remotely via the 15-pin D-SUB connector provided on the rear panel.

### DIGITAL S format

With a track-width of 20  $\mu\text{m}$ , 1 frame consists of 12 tracks with the video area on either side of the audio area. The longitudinal tracks include two cue audio tracks and a control track for tracking purposes.

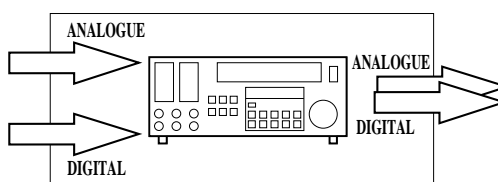
### On-screen menu system

To permit a full array of professional functions, DIGITAL S VTRs incorporate an on-screen menu system which stores data in the VTR's non-volatile memory. This menu system allows you to set or switch most basic functions while referring to the counter or on-screen display. Mode selection and initialisation are all possible via the menu display, and even functions normally requiring DIP switch resetting can be switched directly via the menu display. And, since the menu system is hierarchical, pressing one of the Direct Menu Access buttons allows you to go straight to the desired menu.

### Self-diagnosis function via RS-232C interface

Thanks to the RS-232C interface, you can check the VTR's condition without interfering with the picture quality or operation. When the request command is sent via the RS-232C interface, diagnostics are run to check for head clogging, error rate, etc.

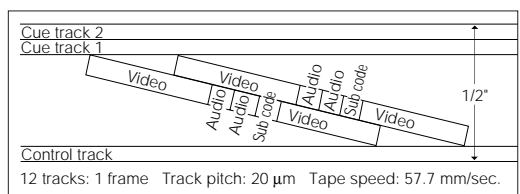
### Systems flexibility

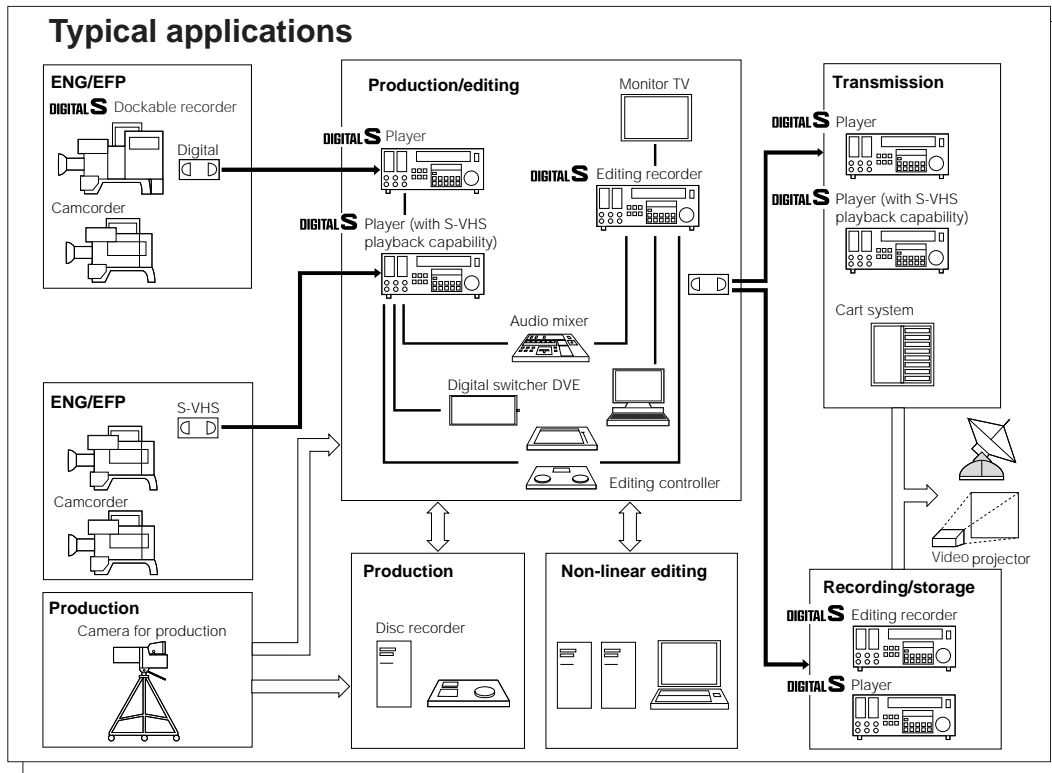
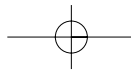


JVC's new DIGITAL S VTRs are designed for easy incorporation in any existing analog edit suite. Besides an optional serial digital interface (SMPTE259M), the BR-D750E/D350E features connectors for analogue composite, Y/C, and component signals.

### Other features

- Repeat playback from the beginning to the end of a tape
- Auto rewind at the end of a tape
- Counter search
- Remote control via RS-422A interface using industry-standard command set
- External sync analogue reference signal input
- Capstan bump for frame synchronisation
- Preroll function with user-designated time setting
- Headphone output with level control
- Playback error checking with LED status display
- Auto tracking (with manual mode)
- Time code re-generation external TC or jam sync (BR-D750E)
- Manual audio recording level adjustment (exclusively for analogue sources)(BR-D750E)
- ORC auto setting in the adjustment mode





## Specifications

### GENERAL

Format: DIGITAL S  
 Tape: 1/2-inch metal particle  
 Power requirement: AC 220 V~, 50 Hz  
 Power consumption: 180 W (BR-D750E),  
 160 W (BR-D350E)  
 Dimensions: 429 (W) x 188 (H) x 567 (D) mm  
 Weight: 23 kg (BR-D750E),  
 22 kg (BR-D350E)  
 Temperature  
 Operating: 5°C to 40°C  
 Storage: -20°C to 60°C  
 Humidity: 30% to 80%  
 Tape speed: 57.737 mm/s  
 Recording time: 104 minutes (using DS-104  
 tape)  
 Picture search:  $\pm 32$  times with visible colour  
 picture (remote control required)  
 Slow motion:  $\pm 1/3$  times with full picture quality  
 (remote control required)  
 Remote control: RS-422A  
 Remote diagnosis: Via RS-232C (list  
 capabilities)  
 Rotation speed: 4500 rpm  
 Tracks: 1 audio cue, 1 control, 10 video/audio  
 per frame  
 Track pitch: 20  $\mu$ m  
 Head drum: 62 mm (same as S-VHS)

### VIDEO

Sampling: 4:2:2 8-bit component  
 Y; 13.5 MHz  
 R-Y/B-Y; 6.75 MHz  
 Compression: 3:3:1 DCT-based, intra-frame  
 coding  
 Data rate: 50 Mbps  
 Input/output (BR-D750E):  
 - Digital input/analogue component output  
 S/N: 55 dB or more  
 K factor: 2% or less (2T pulse)  
 - Component serial digital input/output: Optional  
 Video control adjustment range:  
 System sync phase:  $\pm 3 \mu$ s or more  
 System SC phase: 360° or more  
 Video phase:  $\pm 1.0 \mu$ s or more  
 Video level:  $\pm 3$  dB or more (remote control unit  
 required)  
 Chroma level:  $\pm 3$  dB or more (remote control  
 unit required)  
 Chroma phase:  $\pm 30^\circ$  or more (remote control  
 unit required)  
 Setup level: 0 mV or less to 100 mV or more  
 (remote control unit required)

### AUDIO

2-channel PCM, 48 kHz, 16-bit  
 Each channel individually editable  
 Input/output (BR-D750E): Analogue  
 Digital (AES/EBU); optional  
 Frequency characteristics: 20 Hz to 20 kHz  
 $\pm 1/-1.5$  dB  
 Dynamic range: 85 dB or more (at 1 kHz)  
 Distortion: 0.1% or less (1 kHz, at operation level)  
 Crosstalk: -75 dB or less (at 1 kHz)  
 Headroom: 20 dB  
 Emphasis: Automatic switching in play (OFF in  
 recording)

### ACCESSORIES

Provided: Power cord  
 Optional:  
 SA-D80U: Digital input/output (SMPTE  
 259M/AES/EBU) for BR-D750E  
 SA-D50U: Digital output (SMPTE  
 259M/AES/EBU) for BR-D350E  
 SA-K67U: Rack-mount kit



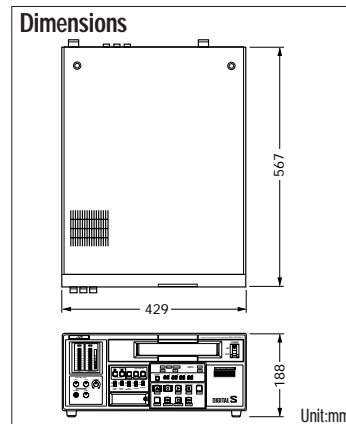
SA-D80U



SA-D50U



SA-K67U

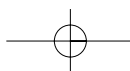


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# JVC

## PROFESSIONAL

### BR-D750E

FULL QUALITY LOW COST DIGITAL S EDITING RECORDER

### BR-D350E

FULL QUALITY LOW COST DIGITAL S SOURCE PLAYER



# S

# DIGITAL

# DIGITAL S

## High-performance digital video for budget-conscious professionals

Now the power of DIGITAL S is more accessible than ever thanks to the introduction of the affordable new BR-D750E DIGITAL S Editing Recorder and the BR-D350E DIGITAL S Source Player. Boasting the same high-performance digital quality and reliability as the high-end DIGITAL S Recorders and Players, these new units are specifically designed for those professionals who can take advantage of limited front panel functions but demand the same performance and reliability standards for which DIGITAL S is famous.

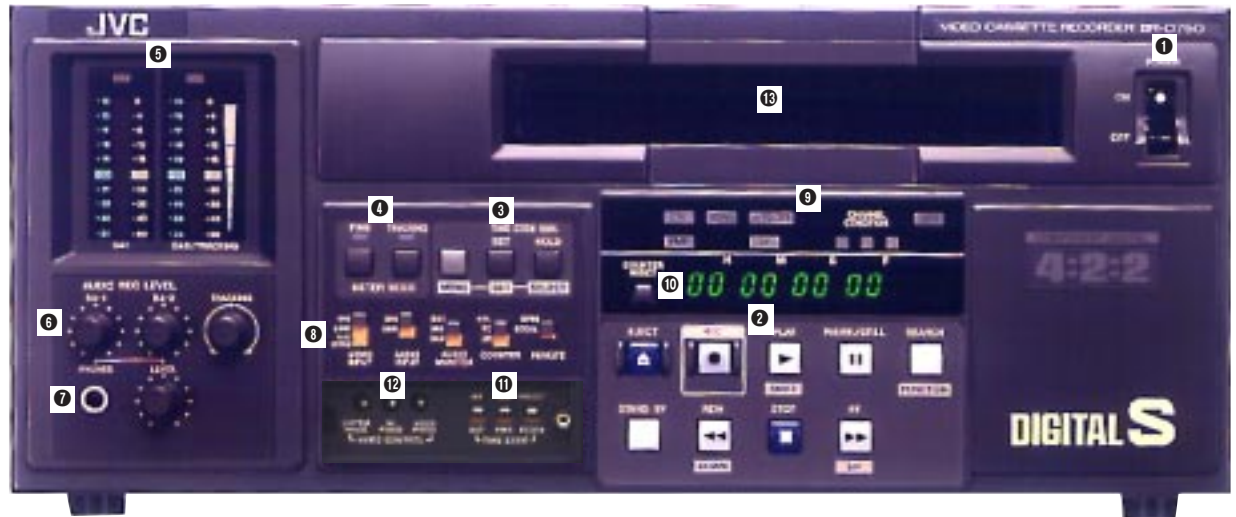
When it comes to digital video, nothing can compare with the unique combination of cost-efficiency, ease of use, and performance provided by JVC's acclaimed DIGITAL S format. Put simply, DIGITAL S is the only digital video system that's powerful enough for broadcasters and high-end production houses, yet affordable enough for professionals working in the industrial, commercial, and educational fields.



BR-D750E



## Front panel of the BR-D750E



### BR-D750E DIGITAL S editing recorder

- DIGITAL S recording/playback capability
- 2-channel PCM sound with 16-bit 48 kHz sampling
- Built-in time code generator/reader
- Complete analogue interface with input/output connectors
- Serial digital interface (option)
- Assemble/insert editing
- Frame-by-frame recording and editing
- Perfect slow-motion playback over a range of  $\pm 1/3x$

## Front panel of the BR-D350E



DIGITAL S adds a new level of power and versatility to analogue or digital systems.

- ❶ POWER
- ❷ Operation buttons
- ❸ Time code generator/menu switch setting buttons
- ❹ Meter mode select buttons
- ❺ Fine Meter sensitivity selection
- ❻ Audio recording level/tracking adjust knob
- ❼ Headphone section
- ❽ Setting switch section
- ❾ LED indicator section
- ❿ Counter display section
- ⓫ Time code setting switch section
- ⓬ Video control section
- ⓭ Cassette loading slot



Rear panel of the BR-D750E

- ❶ AC IN
- ❷ Video input connector section
- ❸ Video output connector section
- ❹ Audio input connector section
- ❺ Audio output connector section
- ❻ Monitor output connector section
- ❼ Time code connector section
- ❽ Control connector section

**DIGITAL S provides comprehensive analogue and digital inputs and outputs, as well as industry standard RS-422A control interface. That means you can integrate a DIGITAL S VTR into any existing edit suite — whether it's digital or analogue. Even in an analogue environment, you'll be able to start reaping the benefits of digital video quality right away.**

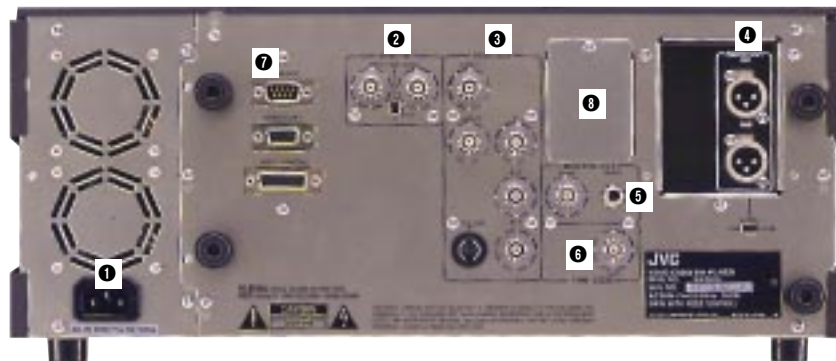


- ❶ POWER
- ❷ Operation buttons
- ❸ Menu switch setting buttons
- ❹ Meter mode select buttons
- ❺ Level meter section
- ❻ Audio level/tracking adjust knob
- ❼ Headphone section
- ❽ Setting switch section
- ❾ LED indicator section
- ❿ Counter display section
- ⓫ Video control section
- ⓬ Cassette loading slot

## BR-D350E

**DIGITAL S editing player**

- DIGITAL S playback capability
- 2-channel PCM sound with 16-bit 48 kHz sampling
- Built-in time code reader
- Complete analogue interface with output connectors
- Serial digital interface (option)
- Perfect slow-motion playback over a range of  $\pm 1/3x$



Rear panel of the BR-D350E

- ❶ AC IN
- ❷ External sync input section
- ❸ Video output connector section
- ❹ Audio output connector section
- ❺ Monitor output connector section
- ❻ Time code connector section
- ❼ Control connector section
- ❽ Optional board installation section