

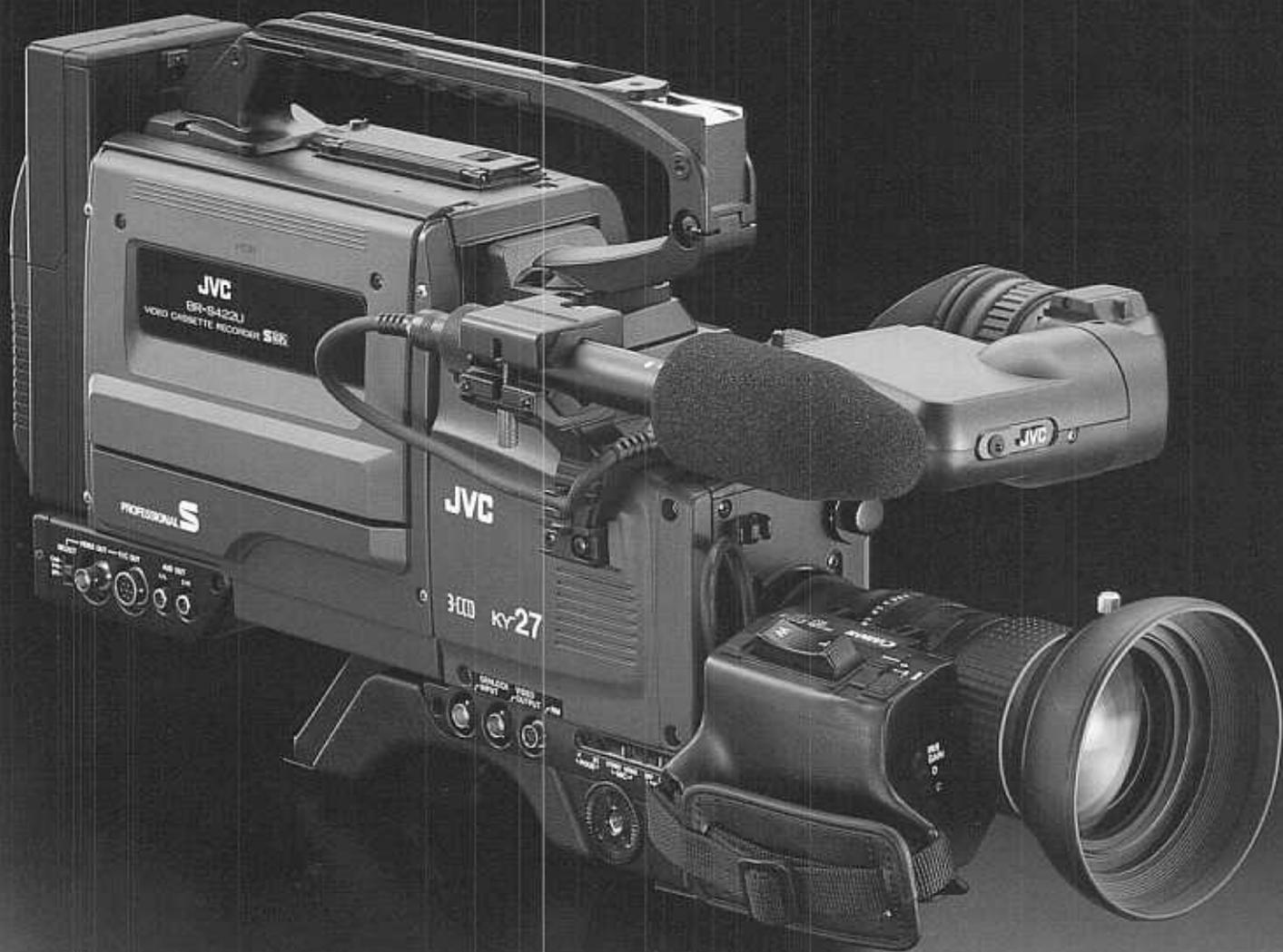
JVC[®]
PROFESSIONAL

PROFESSIONAL **S**

S-VHS DOCKABLE
RECORDER

BR-S422U

A compact energy-efficient
Professional S Dockable
Recorder with reduced power
consumption and faster
recording start for field
applications.



The Superior Performance Of Professional S

The BR-S422U Dockable S-VHS Recorder: Part of the Professional S Solution

Every day, more and more broadcast video professionals are turning to JVC's Professional S for the solution to their image acquisition needs. Why?

Because Professional S not only offers broadcast-standard performance and features at every step of the production chain, it does so at a cost far below that of any other broadcast-standard video format. Now JVC has taken that outstanding performance and put it in a dockable S-VHS recorder that's more compact and economical than ever. The BR-S422U. Even lighter and more compact than its predecessors, the BR-S422U offers greatly reduced power consumption, quick-response recording start, optional plug-in time code generator, built-in AEF, and 4-channel audio with two linear channels and two Hi-Fi channels. Dock it with one of JVC's advanced cameras to form a lightweight, low-cost camcorder offering a level of convenience, performance, and mobility that bulky 3/4-inch portable systems simply cannot match. JVC's BR-S422U. High performance and cost-effectiveness supported by the world's most powerful line of S-VHS studio VCRs make it the ideal camcorder for professionals on the move.

New compact, lightweight design

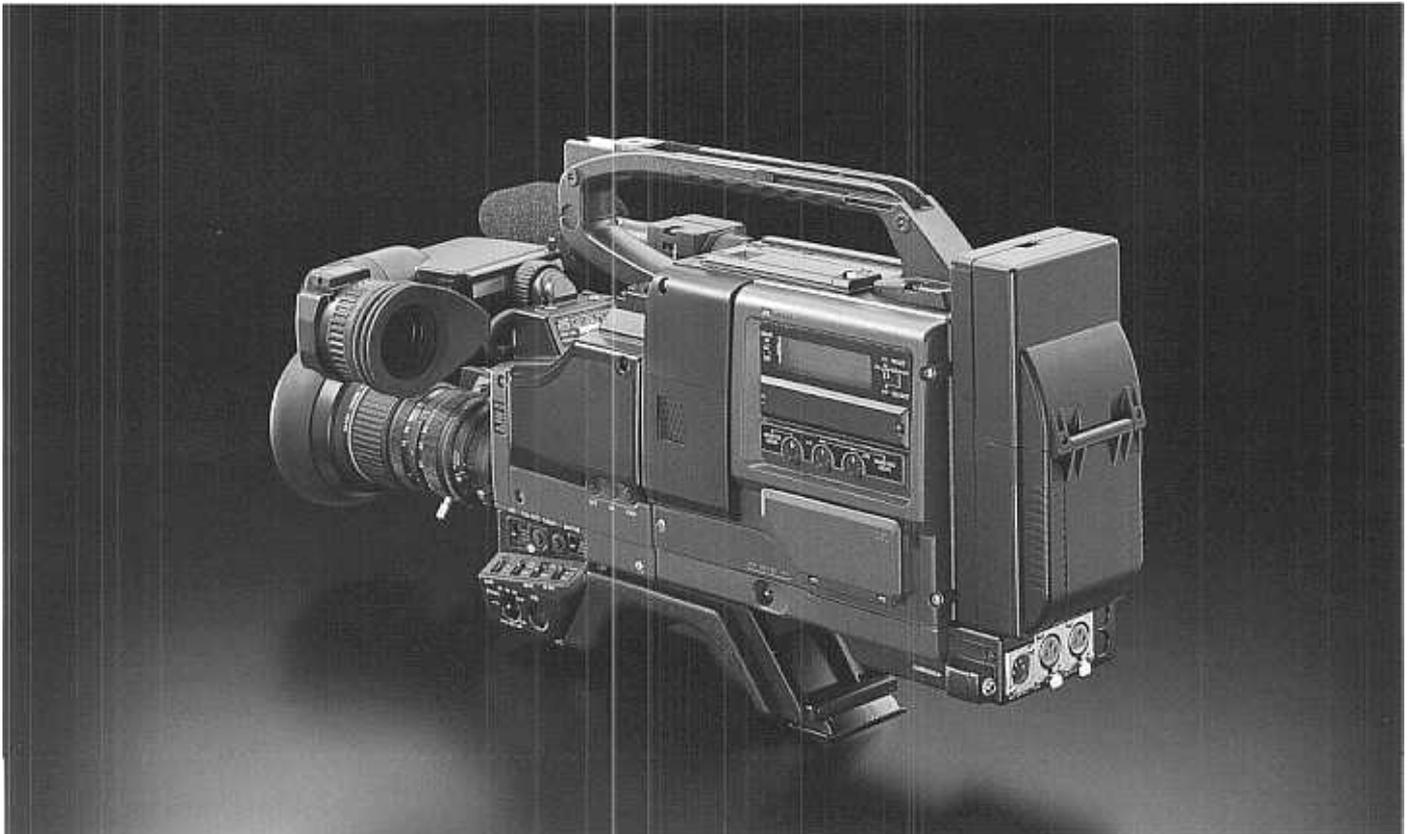
The BR-S422U not only delivers picture and sound quality comparable to 3/4-inch, it gives you much greater mobility. At only seven pounds (not including tape and battery), it's the lightest dockable recorder in its class and its new streamlined compact design makes it easier to carry and less susceptible to breakage. Dockable with most JVC KY-series cameras, the BR-S422U offers you a level of convenience and mobility that no other mid-level recorder can match. Power consumption has also been reduced so you'll have to change batteries less often. And, since the BR-S422U uses full-size S-VHS tapes, up to 2 hours of recording is possible on a single tape.

High-quality S-VHS pictures

To provide pictures with detail and clarity, the BR-S422U incorporates JVC's advanced S-VHS technology for high-quality pictures with resolution of more than 400 lines. In addition, a 62-mm standard drum is used to ensure the best possible picture performance with minimal jitter. VHS recording is also possible.

Quick-Response recording start and Quick AEF

In ENG applications, a few seconds can mean the difference between getting a shot and missing it altogether. To make sure you can start shooting the action as soon as it starts, the BR-S422U features a newly-developed quick-response recording start mechanism. You'll be able to go from the Rec-Pause mode to the Record mode in barely a second and half — with no distortion between takes. And if you want even faster response time, a newly-developed Quick AEF will start the recorder in less than half a second.



*Picture shows the BR-S422U with the KY-27U camera system (optional) docked.

In A Compact, Cost-Effective Profile

Optional Plug-in Time Code Generator

To facilitate program-logging and simplify post-production, a plug-in Time Code Generator board (SA-R200U) capable of recording SMPTE-standard LTC or VITC time codes is available. Thanks to the BR-S422U's new rationalized design, the time code generator can easily be installed inside the recorder so there are no bulky extensions, and no significant additional weight. User bits featuring an internal real-time clock are provided for recording of additional data.

2-Channel Hi-Fi and 2-Channel Linear Audio

To assure maximum audio flexibility and top-quality sound, the BR-S422U features two Hi-Fi audio channels and two linear audio channels. Using two rotary FM-audio heads to record Hi-Fi audio signals on a separate layer of tape, the Hi-Fi VHS system assures superb sound quality with extended frequency response of 20 Hz to 20 kHz, a dynamic range of 80 dB, and virtually no wow and flutter. Dolby B* noise reduction is provided for the linear channels.

Professional-standard XLR balanced audio connectors

To maintain the highest level of audio performance, balanced XLR audio input connectors are provided. Input levels are switchable between -60 dB and +4 dB to allow connection of professional microphones for interviews and other applications.

LCD audio level meter with independent level controls

A backlit LCD audio level meter with independent bars for channels 1 and 2 together with four audio recording level controls permit convenient monitoring of either the Hi-Fi or normal audio tracks, as well as separate level adjustment. A three-position switch allows you to monitor the sound from each channel individually or both at the same time. A switchable ALC is provided. Level adjustment is still possible even with the limiter on.

Rotary erase heads

A pair of rotary erase heads are attached to the head drum to ensure clean, high-quality pictures in re-recording. By erasing previously-recorded material field-by-field, the rotary erase heads eliminate color beats and ensure smooth transitions.

Built-in AEQ generator

To ensure clear, sharp pictures all the time — even with over-used tapes or worn-out video heads, the BR-S422U incorporates an automatic equalizer to prevent deterioration of the luminance signal.

Built-in loudspeaker

A side-mounted speaker allows audio monitoring in playback or recording without the need for headphones. Audible warnings are also emitted from this speaker.

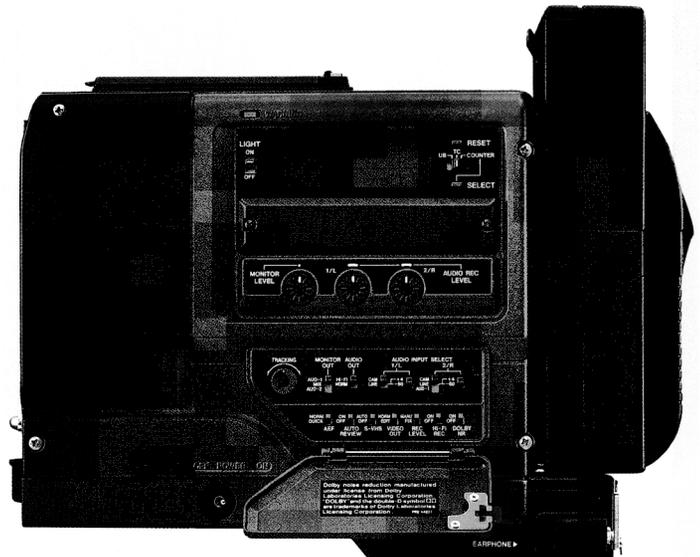
REC REVIEW function

This convenient function lets you check playback quality without disengaging the record-pause mode. When engaged, the tape rewinds briefly, plays back the last few seconds of the scene you've just recorded, then re-enters the record-pause mode. You can check picture quality through the viewfinder and sound via the built-in speaker or earphone.

Other Features

- LCD display indicates time code, tape time, and tape remaining time
- Video/Hi-Fi audio insert editing
- Heavy-duty diecast aluminum body
- LED operation indicators
- Battery power remaining indicator
- 5000H hour meter (switchable from tape counter)
- Self-diagnostic and maintenance-oriented design

* Dolby and the Double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.



SPECIFICATIONS

GENERAL

Format: VHS/S-VHS NTSC standard
Power requirement: DC 12 V
Power consumption: 13 W
Dimensions: 287.5(W) x 244(H) x 131.5(D)mm
(11-3/8" x 9-5/8" x 5-3/16")
Weight: 3.2 kg (7.1 lbs), 4.2 kg (9.3 lbs)
with battery and cassette
Temperature
Operating: 0°C to 40°C (32°F to 104°F)
Storage: -20°C to 60°C (-4°F to 140°F)
Operating humidity: 30% to 80%
Tape width: 12.65 mm
Tape speed: 33.35 mm/sec
Recording and Playback time: 120 min. with ST-120

VIDEO

Recording and Playback system: Rotary four-head helical scanning system
Luminance: FM recording
Color: Down converted direct recording
Video signal system: NTSC-type color signal/NTSC-type Y/C signal
Input (50-pin camera connector)
Y: 1.0 Vp-p, 1 k-ohm, unbalanced
C: 0.286 Vp-p, 1 k-ohm, unbalanced
Output
Line: 1.0 Vp-p, 75 ohms, unbalanced
Y/C: Y: 1.0 Vp-p, 75 ohms, unbalanced
C: 0.286 Vp-p (burst), 75 ohms, unbalanced
Signal-to-noise ratio: 46 dB (S-VHS)
45 dB (VHS)
Horizontal resolution: More than 400 lines (S-VHS)
More than 240 lines (VHS)

AUDIO

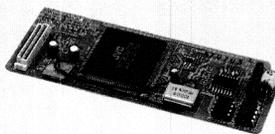
Number of tracks: 4 (Hi-Fi: 2/Normal: 2)
Input
50-pin camera connector: -20 dBs, 10 k-ohms, balanced
Mic: -60 dBs, 3 k-ohms, balanced (Hi-Fi/Normal)
Line: +4 dBs, 10 k-ohms, balanced (Hi-Fi/Normal)
Output
Line: -6 dBs, low impedance, unbalanced (Hi-Fi/Normal)
Earphone: -60 to -12 dBs, 8 ohms
Speaker: 0.5 W, 8 ohms
Dynamic range: More than 80 dB (Hi-Fi)
Frequency response: 20 to 20,000 Hz (Hi-Fi)
50 to 12,000 Hz (Normal)
Signal-to-noise ratio: 44 dB (NR-off, Normal at 3% distortion)
Wow & flutter: Less than 0.007 % WRMS (Hi-Fi)
Less than 0.15 % WRMS (Normal)

ACCESSORIES

Provided accessory: Carrying handle x 1



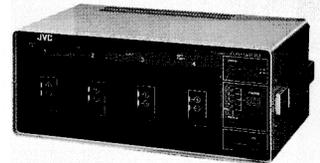
OPTIONAL ACCESSORIES



SA-R200U
Time Code Generator



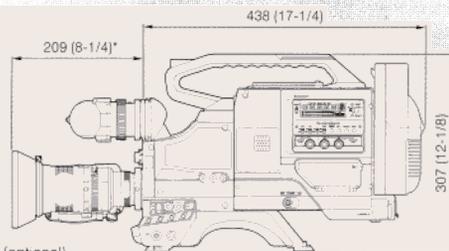
NB-G1U
Rechargeable
Battery Pack



AA-G10U
Battery Charger/AC Power Adapter

DIMENSIONS

Unit: mm (inches)



With KY-27U camera system (optional)
*Varies with different lenses.

Design and specifications subject to change without notice.

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