

# FEATURES

## 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, recording time of up to 2 hours 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 available.

\* A Y/C filtering technique incorporated under license from FAROUJIA Laboratories.

## Quick-Response Recording Start

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.

## 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. 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.

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

## Other Features

- Built-in AEQ generator
- Built-in loudspeaker
- REC CHECK function
- Rotary erase heads
- Backlit LCD audio meter
- LCD display indicates time codes, control track data, and tape remaining time
- Heavy-duty diecast aluminum chassis
- LED operation indicators
- Battery power remaining indicator
- 5000H hour meter (switchable from tape counter)
- Video/Hi-Fi audio insert editing
- Self-diagnostic and maintenance-oriented design

# SPECIFICATIONS

## GENERAL

Format: VHS/S-VHS NTSC standard  
Power requirement: DC 12 V  
Power consumption: 13 W  
Dimensions: 292(W) x 242(H) x 131(D) mm  
(11-1/2" x 9-9/16" x 5-3/16")  
(with battery holder)  
Weight: 3.2 kg (7.1 lbs)  
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: Less than 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, 75 ohms, unbalanced  
C: 0.286 Vp-p (burst), 75 ohms, 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: 400 lines (S-VHS)  
240 lines (VHS)

## AUDIO

Number of tracks: 4 (Hi-Fi: 2/Normal: 2)  
Input  
Line: -60 dBs, 3 k-ohms, balanced (Hi-Fi/Normal)  
Mic: +4 dBs, 10 k-ohms, balanced (Hi-Fi/Normal)

## Output

Line: -6 dBs, low impedance, unbalanced (Hi-Fi/Normal)  
Earphone: ∞ to -17 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)  
Wow & flutter: Less than 0.007 % WRMS (Hi-Fi)  
Less than 0.15 % WRMS (Normal)

## ACCESSORIES

Provided accessories: Camera handle x 1, battery holder x 1