



Professional High-Definition Delivery System







SR-VDA300U



JVC Fills the "Missing Link" in High-Definition Content Distribution with Password Protection and Cost Effectiveness

JVC's Pro-HD Professional High-Definition Delivery System is the cost-effective hi-def distribution solution that protects that hi-def content with a password-based security system. So professionals in the broadcasting, educational, medical, and motion picture industries, will be able to share completed work and work in progress with their colleagues and production teams with the assurance of confidentiality. High definition content is a precious commodity which deserves to be protected from the wrong hands and eyes, and JVC provides just the system to address the quality and security needs of the modern digital world. Choose Pro-HD for broad compatibility based on the 1080i format that is fast becoming the universal language in hi-def delivery, with the ability to put your own lock on it.

Pro-HD Compatible

The SR-VDA300U Pro-HD Digital Recorder features a Pro-HD mode that makes password-protected ASI-standard MPEG-2 TS (Transport Stream) recordings from a connected MPEG-2 encoder such as JVC's DM-JV600. That means the SR-VDA300U can be incorporated into a film-based system after HD Telecine conversion, to allow cost-saving review of "dailies" in the motion picture industry, as well as any other field where protected distribution of hi-def content is mission critical. Such recordings will only be playable on a SR-VD400U Pro-HD D-VHS Recorder/Player by inputting the same password that was used when making the recording.



D-VHS Tape



Delivery

SR-VDA300U Pro-HD Digital Video Recorder

DTHEATER™ DVHS[©]

DTHEATER

DVHS

SR-VD400U

Major Features ■ MPEG-2 TS Recording

The SR-VDA300U accepts the native DVB-ASI data stream directly from any HD MPEG-2 encoder conforming to ASI standards and required data rates. Its built-in ASI interface allows direct recording of the native HD MPEG-2 transport stream generated by MPEG encoders like JVC's DM-JV600 and others.

1080i

Password Protection

The SR-VDA300U was designed to make original recordings in password-protected Pro-HD mode, allowing secure transport and playback for content creators. Unlike straight D-VHS recordings, content recorded in the Pro-HD mode is "locked" by the user and is only viewable on the SR-VD400U Pro-HD D-VHS Recorder/Player if the user inputs the identical password.

SR-VD400U Pro-HD D-VHS Recorder/Player



D-VHS Format

D-VHS recording modes include the 28.2 Mbps HS mode for recording of HD sources including 1080i or 720p digital broadcasts*, the 14.1 Mbps STD mode for recording of SD sources such as 480p** and 480i digital broadcasts, and the 4.7 Mbps LS3 mode and 2.8 Mbps LS5 mode (SR-VD400U only) for up to 40 hours recording of digital or analog NTSC material on a single DF-480 cassette.

*Requires compatible set-top box with IEEE1394 connection.

**Not possible in LS3/LS5 modes.

D-Theater Software Compatible

Allows playback of copy-protected prerecorded D-Theater software, for access to the latest HD software releases.

■ MPEG-2 CODEC for Digital Recording of Various Sources

Iew

PLASMA Display

The built-in MPEG-2 encoder/decoder enables D-VHS digital recording from NTSC analog sources as well as DV MPEG-2 conversion recording from an IEEE1394-connected digital video camera for digital archiving.

Linear PCM Digital Audio

In the D-VHS HS and STD modes it is possible to dub from an IEEE 1394-connected digital video camera and maintain the linear PCM digital soundtrack (1.6 Mbps audio data rate).

Video Navigation

Simplifies finding recordings, up to 1000 titles, with Library and Search functions, plus more.

Versatile IEEE1394 Connectivity

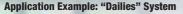
The IEEE1394 terminal allows connection of a digital set-top box or HD camcorder (such as JVC's JY-HD10U or GR-HD1US) for the transfer and recording of HD digital signals. Naturally also allows SD dubbing of copy free 480i from and to MiniDV camcorders. Material dubbed to D-VHS from VHS/S-VHS or a connected analog source can be played back through the connector onto a D-VHS deck, PC, or MiniDV camcorder.

HDTV Component Output

Component outputs (Y/PB/PR) allow viewing on plasma monitors and other HD displays.

Playback Picture Format Converter

Allows all formats to be downcoverted to 480i for easy viewing on standard monitors, as well as upconversion of 720p to 1080i for viewing on the latest displays.



In the motion picture industry, JVC's High Definition Delivery System has already proven itself invaluable as a cost-effective, security-protected way of distributing "dailies" — the industry's way of checking on the daily progress of tasks from shooting to editing and

verification.



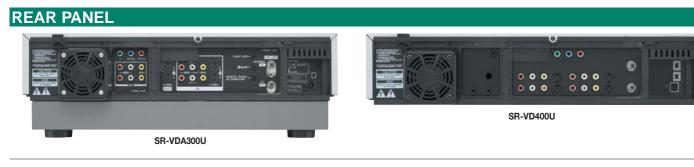
■ Quick results ■ Lower cost — no waste ■ Can duplicate later as necessary ■ Password protected

SPECIFICATIONS

| Power requirement | AC 120V, 60 Hz |
|-------------------------------------|---|
| Power consumption | |
| Power on | 61 W |
| Power off | 18 W |
| Temperature | |
| Operating | 5°C to 40°C (41°F to 104°F) |
| Storage | -20°C to 60°C (-4°F to 140°F) |
| Humidity | |
| Operating | 35% to 80% |
| Operating position | Horizontal only |
| Dimensions (W x H x D) | 435 mm x 146 mm x 376 mm (17-3/16" x 5-3/4" x 14-13/16") |
| Weight | 9.2 kg (20.3 lbs) |
| Maximum recording time | 0.2 (20.0 100) |
| PRO HD (HS) | 210 min, with DF-420 video cassette |
| PRO HD (STD) | 420 min, with DF-420 video cassette |
| PRO HD (LS3) | 1260 min. with DF-420 video cassette |
| S-VHS/VHS (SP) | 210 min, with ST-210 video cassette |
| | |
| S-VHS/VHS (EP) | 630 min. with ST-210 video cassette |
| VIDEO/AUDIO (PRO HD) | MPEG-2 standard |
| Video format | |
| Audio format | Encode MPEG-1 Layer2 |
| | Decode MPEG-1 Layer2 |
| T | Dolby Digital |
| Track composition | |
| Tape speed | 33.4 mm/sec. (HS mode) |
| | 16.67 mm/sec. (STD mode) |
| | 5.55 mm/sec. (LS3 mode) |
| Head azimuth | <u>+</u> 30 deg |
| Drum rotation | 1800 rpm |
| Tracking system | CTL track system |
| Maximum recording | |
| data input rate | 21 Mbps |
| Interface | DVB-ASI |
| VIDEO/AUDIO (S-VHS/VHS) | |
| Format | S-VHS/VHS NTSC standard |
| Signal system | NTSC-type color signal and |
| | EIA monochrome signal, |
| | 525 lines/60 fields |
| Recording/Playback system | DA-4 (Double Azimuth) head helical scan system |
| Signal-to-noise ratio | 45 dB |
| Frequency range | |
| Normal audio | 70 Hz to 10,000 Hz |
| Hi-Fi audio | 20 Hz to 20,000 Hz |
| TUNER | |
| Tuning system | Frequency-synthesized tuner |
| Channel coverage | |
| VHF | Channels 2-13 |
| UHF | Channels 14-69 |
| CATV | 113 Channels |
| TIMER | |
| Clock reference | Quartz |
| Program capacity | 1-year programmable timer/24 programs |
| Memory backup time | Approx. 60 min. |
| CONNECTORS | |
| Input/Output | RCA connectors (IN x 3, OUT x 2) |
| ii iput/Output | |
| | S-video connectors (IN x 3, OUT x 2) |
| | Component video OUT (Y, PB/CB, PR/CR) x 1 |
| | Digital OUT (optical) x 1 |
| | BNC connector (IN x 1) |
| | |
| ACCESSORIES | 1 / 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| ACCESSORIES Provided accessories | Infrared remote control unit, "AA" battery x 2, Audio cable, RF cable (F-type), S-video cable (4-pin), Controller, AC power corc |

| GENERAL | |
|-------------------------------------|--|
| Power requirement | AC 120V, 60 Hz |
| Power consumption | |
| Power on | 42 W |
| Power off | 18 W |
| Temperature | |
| Operating | 5°C to 40°C (41°F to 104°F) |
| Storage | -20°C to 60°C (-4°F to 140°F) |
| Operating position | Horizontal only |
| Dimensions (W x H x D) | 435 mm x 94 mm x 383 mm (17-3/16" x 3-3/4" x 15-1/8") |
| Weight | 5.5 kg (12.2 lbs) |
| Maximum recording time | 210 min, with DF-420 video cassette |
| D-VHS (HS) | 420 min. with DF-420 video cassette |
| D-VHS (STD) | |
| D-VHS (LS3) | 1260 min. with DF-420 video cassette 2100 min. with DF-420 video cassette |
| D-VHS (LS5) | 2100 min. with DF-420 video cassette 210 min. with ST-210 video cassette |
| S-VHS/VHS (SP) | |
| S-VHS/VHS (EP) | 630 min. with ST-210 video cassette |
| VIDEO/AUDIO (D-VHS) Video format | MPEG-2 standard |
| Audio format | Encode MPEG-1 Layer2 |
| Audio format | Decode MPEG-1 Layer2/Dolby Digital/LINEAR PCM (HS/STD |
| Track composition | Decode IVIFEG-T LAYERZ/DOIDY DIGITAL/LINEAR POINT (HS/STD |
| | 33.4 mm/sec. (HS mode) |
| Tape speed | 16.67 mm/sec. (STD mode) |
| | 5.55 mm/sec. (LS3 mode) |
| | 3.33 mm/sec. (LS5 mode) |
| Head azimuth | +30 deg |
| Drum rotation | ±30 deg 1800 rpm |
| Tracking system | CTL track system |
| Recording specification | OTE LIACK System |
| Main data input rate | 28.2 Mbps (HS mode) |
| Main uata input rate | 14.1 Mbps (STD mode) |
| | 4.7 Mbps (LS3 mode) |
| | 2.8 Mbps (LS5 mode) |
| Interface | IEEE1394 compliant |
| | DTCP digital copy protection compatible |
| VIDEO/AUDIO (S-VHS/VHS) | Differ digital copy protection compatible |
| Format | S-VHS/VHS NTSC standard |
| Signal system | NTSC-type color signal and EIA monochrome signal, |
| olgha oyotonn | 525 lines/60 fields |
| Recording/Playback system | DA-4 (Double Azimuth) head helical scan system |
| Signal-to-noise ratio | 45dB |
| Frequency range | |
| Normal audio | 70 Hz to 10,000 Hz |
| Hi-Fi audio | 20 Hz to 20,000 Hz |
| TUNER | |
| Tuning system | Frequency-synthesized tuner |
| Channel coverage | |
| VHF | Channels 2-13 |
| UHF | Channels 14-69 |
| CATV | 113 Channels |
| TIMER | |
| Clock reference | Quartz |
| Program capacity | 1-year programmable timer/24 programs |
| Memory backup time | Approx. 10 min. |
| CONNECTORS | |
| Input/Output | i.LINK IN/OUT (DV IN) x 2 (4-pin, S400) |
| | RCA connectors (IN \times 3, OUT \times 2) |
| | S-video connectors (IN x 3, OUT x 2) |
| | Component video OUT (Y, PB/CB, PR/CR) x 1 |
| | Digital OUT (optical) x 1 |
| ACCESSORIES | - 3 |
| | |
| Provided accessories | Infrared remote control unit, "AA" battery x 2, Audio cable, |

Specifications shown are for SP mode unless specified otherwise. E. & O.E. Desigh and specifications subject to change without notice.





DISTRIBUTED BY

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