

JVC
PROFESSIONAL

SR-VDA300US
PRO HD MASTERING RECORDER

PRO-HD
D VHS
HIGH DEFINITION
DELIVERY SYSTEM



Now you can master Pro-HD recordings using JVC's "pro-scramble" content protection with this advanced 25 mbps bitstream recorder.

Ideal for digital dailies and economical distribution of high definition recordings.

- High Quality Picture (25Mbps)
- JVC's Original Scramble technology
- Individual copies can be password protected
- ASI interface to pro-MPEG-2 HD encoder

SR-VDA300US PRO HD MASTERING RECORDER

The SR-VDA300US is a unique recorder that accepts the native ASI (Asynchronous Serial Interface) data stream directly from any high definition MPEG-2 encoder conforming to ASI standards and required data rates. The SR-VDA300US is unique to the marketplace for two reasons. First, it has an ASI interface, which allows direct recording of the native HD MPEG2 transport stream. Second, it has the ability to create original recordings in password protected Pro-HD D-VHS mode, allowing secure transport and playback for content creators.

The SR-VDA300 will produce high definition recordings that are nearly indistinguishable from the original digital content--even program material originally recorded on the most expensive systems available. Best of all, the SR-VDA300 uses widely-available, inexpensive oxide D-VHS tape cassettes. With low cost players and inexpensive media, producers can distribute the full quality of HD to a wider audience than ever before.

Pro-HD Encryption and Password Protection

Given the ability to economically distribute the full quality of digital HD, security is naturally a concern for many producers. The SR-VDA300 provides flexible options for securing program content so that only authorized persons will be able to view the recordings. First, the SR-VDA300 is factory preset to record encrypted HD recordings that can be viewed only on JVC's SR-VD400US professional player, not on consumer D-VHS machines. This is the simplest security method since there are no passwords to remember or bother with. If password protection is desired, the SR-VDA300 adds a second layer of security letting the user apply a 5 digit password when recordings are made. The tape can then be played back only when the correct password is entered via the player's remote control. Finally, a third mode of security can be achieved when the players have been assigned specific access codes. (A JVC representative can arrange to have this done.) With this feature, tapes made with the SR-VDA300 can only be played back on players with the assigned code. Entire facilities can now distribute programming that can only be played back in their facility.

Connecting the SR-VDA300 to your system.

To record high definition material with the SR-VDA300, an encoder such as JVC's DM-JV600 is required. Industry standard standalone encoders such as the Tiernan THE15A and Tandberg may also be used. A software based encoding solution called MPEG Power Professional is available from Heuris, Inc.

SR-VDA300U

GENERAL

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	
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)

Video format	MPEG-2 standard
Audio format	Encode MPEG-1 Layer2 Decode MPEG-1 Layer2 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	±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) 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)
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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 cord
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SR-VD400US PRO HD
D-VHS RECORDER / PLAYER



SR-VDA300US PRO HD
ASI RECORDER



BC-D2300U
HDTV UPCONVERTER



DM-JV600
MPEG-2 ENCODER

PRO-HD
DVHS
HIGH DEFINITION
DELIVERY SYSTEM

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PROFESSIONAL

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