

DR-V1HD

Linear PCM / HD Video Recorder



The DR-V1HD is a combined HD video recorder and linear PCM audio recorder. It offers a 180-degree rotating camera and microphone-set at the top of the unit for flexible recording setups along with specific feature sets to obtain high-quality videos or still images combined with the sound quality and ease of use Tascam is known for since many years.

The DR-V1HD is encased in a sturdy and solid body with an ergonomic design. It follows the same sleek look as previously released handheld recorders and utilizes rotary volume controls for fine-tuned input level adjustments. The layout and controls were designed to decrease any unnecessary handling noise and produce stable filming operation.

The DR-V1HD records audio at up to 96k/24-bit resolution. Variable-Speed-Audition is available as well as the ability to link any audio file on the device to still photographs. A HDMI output and a standard screw mount for use with a tri-pod are also available.

Main Features

- **High-definition audio/video recorder combined in one compact unit**
- **Same sound quality as Tascam DR series recorders**
 - Ideal for musicians, podcasters, YouTube uploaders or any other user who wants to record high-quality sound combined with HD video
- **Lens and microphones can be swivelled by 180 degrees so that the LCD screen can be seen in any situation:**
 - when recording a subject behind the DR-V1HD
 - when recording a subject in front of the DR-V1HD
 - when recording with the DR-V1HD placed horizontally (e.g. on a tripod)
- **Records to microSD/microSDHC card (2-GB card included)**
- **2.4-inch TFT color LCD with Movie/Audio/Photo display modes**
- **Linear PCM (WAV file) recording and playback at 44.1/48/96 kHz, 16/24 bit**
- **High-grade stereo condenser microphone (same as Tascam DR-100MKII), shielded from the circuit board for even higher S/N ratio**
- **Stereo input for an external microphone or a line level source**
- **Switchable low-cut filter (40/80/120 Hz)**
- **Auto or manual gain control**
- **Dedicated rotary control for recording level adjustment**
- **Switchable limiter**
- **Auto recording feature to start and stop recording by input level**
- **Pre-recording feature allows a recording to start before the record key is pressed**
- **Record audio only and save as a new movie file**
- **VSA function (Variable Speed Audition)**
- **Selectable playback area: All/Folder/Playlist**
- **Built-in monaural monitor speaker**
- **Stereo phones/line output**

Video features

- **HD or VGA video mode (1280p x 720p / 640p x 480p)**
- **30 fps frame rate**
- **Wide focusing range (0.39 m to infinity)**
- **1x – 4x digital zoom**
- **Still image mode to take pictures**
 - Selectable resolutions: 1280p x 720p or 640p x 480p
 - Selectable image quality: super fine, fine, normal
 - When taken in audio mode, the image is also linked to the

Other features

- **Mini-B type USB 2.0 jack for file exchange with a computer**
- **Powered by three Alkaline (LR6) or Ni-MH (HR15/51) batteries**

appropriate audio file and shown on the display or as a thumbnail on the browse screen

- Slide show mode (interval time: 1–10 seconds)
- Selectable white balance modes: auto, bulb light, flash light, stage light, sunlight, cloudy
- HDMI output allows to view HD videos or pictures on a TV

- 5 hours operation time on batteries (48 kHz/24-bit, HD mode, Eneloop batteries)
- AC power adapter available as an option (Tascam [PS-P520E](#))
- Auto power-off (3/5/10/30 minutes or off)
- Tripod attachment screw hole
- USB cable included

Audio features

Specifications

Media and formats

Recording media	microSD card (64 MB – 2 GB) microSDHC card (4–32 GB)
Video recording/playback format	MOV
Video compression method	MPEG4-SP
Audio	WAV 44.1/48kHz, 16/24-bit
Resolution	SD 640×480 (30 fps) HD 1280×720 (30 fps)
Audio recording/playback format	WAV, 44.1/48/96 kHz, 16/24-bit
Still image format	0.3M 640×480 0.9M 1024×720
Number of audio channels	2 (stereo)

Analogue audio inputs and outputs

MIC/LINE input	3.5-mm stereo mini jack (plug-in power supported)
Input impedance (MIC)	25 kΩ
Nominal input level (MIC)	GAIN LOW: –32 dBV GAIN MID: –48 dBV GAIN HIGH: –64 dBV
Maximum input level (MIC)	GAIN LOW: –16 dBV GAIN MID: –32 dBV GAIN HIGH: –48 dBV
Input impedance (LINE)	22 kΩ
Nominal input level (LINE)	–10 dBV (0.32 V)
Minimum input level (LINE)	–22 dBV (0.08 V)
Maximum input level (LINE)	+6 dBV (2.0 V)
Headphones/Line output	3.5-mm stereo mini jack
Output impedance	12 Ω
Nominal output level	–14 dBV (10 kΩ load)
Maximum output level	+2 dBV (10 kΩ load)
Maximum output power (headphones)	15 mW + 15 mW (32 Ω load)
Built-in speaker	0.6 W (monaural)
Built-in microphone	Electret condenser microphone pair (stereo)
Directivity	Unidirectional
Sensitivity	–37 dB at 1 kHz (0 dB = 1 V/Pa) RL = 2 kΩ, Vcc = 3 V
Impedance	1.4 kΩ ±30% at 1 kHz (RL = 2 kΩ)
S/N ratio	74 dB typical at 1 kHz (A-weighted)
Maximum input sound pressure level	120 dB
Built-in camera	
Image sensor	1/4-inch CMOS
Resolution	1.0 megapixel (1280 x 800)
Lense, angle of view	64 °
Lense, focal length	39 cm to infinity

Other inputs and outputs

USB port	Mini-B type
Format	USB 2.0 Hi-Speed mass storage device class
HDMI port	Mini port (Type C)

Audio performance

Frequency response (LINE IN to LINE OUT, JEITA)	44.1 kHz: 20 Hz – 20 kHz +1/–3 dB 48 kHz: 20 Hz – 22 kHz +1/–3 dB 96 kHz: 20 Hz – 40 kHz +1/–3 dB
Distortion (THD, LINE IN to LINE OUT, 44.1/48/96 kHz, JEITA)	<0.02 %
S/N ratio (LINE IN to LINE OUT, 44.1/48/96 kHz, JEITA)	>90 dB
Measurement methods used	JEITA CP-2150

Computer compatibility

Supported operating systems	Windows XP, Windows Vista, Windows 7, Mac OS X 10.2 or later
Windows	Pentium (300 MHz or faster) 128 MB or more memory USB port (USB 2.0 recommended)
Mac	Power PC, iMac, G3, G4 (266 MHz or faster) 64 MB or more memory USB port (USB 2.0 recommended)
Recommended USB host controller	Intel chipset

Power supply and other specifications

Power supply	Three AA batteries (Alkaline or Ni-MH) TASCAM PS-P520 AC adaptor (sold separately)
Power consumption	0.9 W (maximum)
Dimensions (W × H × D)	70 mm × 131 mm × 28 mm
Weight	157 g (excluding batteries)
Operating temperature range	0–35 °C

Design and specifications subject to change without notice.

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