TASCAM

DR-05

Linear PCM/MP3 Recorder

The DR-05 offers portable, high-quality stereo recording in MP3 or WAV format – including 96-kHz/24-bit high-resolution audio – using microSD or microSDHC media. A pair of A/B-oriented omni-directional microphones handles up to 125 dB SPL with the sensitivity to capture every detail. Users can also use their own microphone or line-level source through the mini-jack stereo input which includes plug-in power for microphones that need it.

The DR-05 is quick and easy to use with one thumb. Operations like recording, adjusting levels, deleting bad takes and adding marks are only a button press away. Other features like limiting, low-cut filtering, Variable Speed Audition, chromatic tuner and others more can be chosen from the menu. The new Peak Reduction feature automatically reduces the level to prevent accidental distortion. It works in rehearsal mode or in record and can be combined with the built-in limiter. There is also a Level Align function that allows to smooth out any sudden volume jumps during playback, and a built-in speaker is provided for quick check-back.

Internally, the DR-05's digital and analogue circuit boards are built separately to increase noise performance, with a low-impedance design to further decrease hiss. A separate supply voltage is used for the A/D and D/A converter for even better audio performance. The result is clean sound quality with high signal-to-noise ratio, very little distortion and wide frequency response.

Two AA batteries can power the recorder for more than 17 hours, even while recording at CD quality. Operation by USB bus power or an optional AC adapter is also possible.

Options

TM-10L: Lavalier Microphone With Screw-Lock Connector

Features at a glance

Specifications **for high-quality handheld recording**

- **Small size and easy operation**
- **Uses a micro SD/SDHC card as recording medium (2 GB included)**
- **Supported audio formats:**
  - Linear PCM (WAV format) at 16-bit/44.1 kHz (CD quality) or 24-bit/44.1 kHz
  - Linear PCM (WAV format), 24-bit/48 kHz
  - Linear PCM (WAV format), 24-bit/96 kHz
  - Compressed (MP3 format): 32–320 kbit/s at 44.1/48 kHz (VBR files can be played but not recorded)

Recording features

- **Built-in omni-directional stereo condenser microphone**
  - Accepts high sound pressure level up to 125 dB
  - Easy setup
  - Natural sound independent of the sound source's position
  - Ideal for live music recording or news gathering with atmo
- **Switchable filter to minimize unwanted low-frequency noise (40 Hz, 80 Hz, 120 Hz)**
- **Manual recording level setting for music and field recording**
- **Three options of automatic level control during recording: Peak Reduction, Auto Level, Limiter**
- **Auto-recording function to automatically start recording based on input level**
- **Marks can be added automatically when using the automatic recording function**
- **Overdubbing function allows the input and recorded signals to be mixed and recorded as a separate file**
- **Pre-recording buffer (2 seconds) allows a recording to start before the record key is pressed**
- **Timer allows a recording to start 5 or 10 seconds after pressing the RECORD button**
- **Create a new file manually during recording**
- **Set marks to quickly locate certain audio positions (up to 99 per file)**
- **Automatic tone generator convenient when editing with video on other equipment**

- **Stereo mic/line input with plug-in power to connect an external source or microphone**

Playback features

- **Automatic level align allows to increase the perceived overall sound pressure during playback**
- **Variable speed audition to change the playback tempo without affecting the key (50–200 %)**
- **Repeat function (repeat one track or all tracks)**
- **Loop function (repeat a marked section)**
- **Playlist feature to play files in a certain order**
- **Resume function (start playback from the audio position where the unit was last stopped)**
- **Flash back function to instantly review playback (1–10, 20, 30 seconds)**
- **EQ for tone control during playback**
- **MP3 ID3 tag display (up to version 2.4)**
- **Built-in loudspeaker**
- **Headphones/Line output**

Other features

- **Menu language can be selected between English, German, French, Italian, Spanish, Portuguese, Russian, Korean, Japanese**
- **Reverb effect (can be used during both recording and playback)**
- **Chromatic tuner function to tune your instrument**
- **File divide function to cut unwanted noise or to extract parts from long recordings (WAV format only)**
- **Folder management to organize your files**
- **Hold function to avoid inadvertent operation**
- **Clear, backlit LC display**
- **USB 2.0 connection for file transfer to/from computer**
- **Power supply by 2 AA size Alkaline or NiMH batteries, USB bus power or optional AC adapter (Tascam PS-P520E)**
- **Stand adapter (¼ inch) on bottom side to attach the unit to a tripod or microphone stand**

General	
Recording media	microSD card (64 MB - 2 GB)
	microSDHC card (4-32 GB)
Recording/playback format	WAV: 44.1/48/96 kHz, 16/24-bit
	MP3: 44.1/48 kHz, 32/64/96/128/192/256/320 kbps
Number of channels	2 channels (stereo)

Analogue audio inputs and outputs	
Microphone/Line input	3.5-mm stereo mini jack (supporting plug-in power)
Input impedance	25 kΩ
Nominal input level	−20 dBV
Maximum input level	−4 dBV
Line/headphones 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 (phones)	20 mW + 20 mW (32 Ω load)
Built-in loudspeaker	0.3 W (monaural)

Other inputs and outputs

USB jack	Mini-B type
Format	USB 2.0 HIGH SPEED mass storage class

Audio performance

Frequency response	20 - 20 kHz +1/−3 dB (44.1 kHz, EXT IN to LINE OUT, JEITA) 20 Hz − 22 kHz +1/−3 dB (48 kHz, EXT IN to LINE OUT, JEITA) 20 Hz − 40 kHz +1/−3 dB (96 kHz, EXT IN to LINE OUT, JEITA)
Total harmonic distortion	0.05 % or less (EXT IN to LINE OUT, Fs 44.1/48/96 kHz, JEITA)
S/N ratio	92 dB or more (EXT IN to LINE OUT, Fs 44.1/48/96 kHz, JEITA)
Note for JEITA	Conforming to JEITA CP-2150

Computer compatibility

Supported OS	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	Two AA batteries (Alkaline or Ni-MH) USB bus power supplied from a computer AC adaptor (TASCAM PS-P515U, sold separately)
Power consumption	1.7 W (maximum)
Dimensions (W x H x D)	61 mm x 141 mm x 26 mm
Weight	0,116 kg (without batteries)
Operating temperature range	0–40 ℃

Design and specifications subject to change without notice.

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