

## DR-07MKII

### Linear PCM/MP3 recorder



The DR-07MKII is a portable, high-quality stereo recorder capturing audio at high resolution up to 96 kHz/24 bit to microSD or microSDHC media. A pair of cardioid condenser microphones handles high sound pressure levels and can be set up in AB or XY orientation for a wide stereo field or extra-clear reproduction with reduced phase displacement between both channels. 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-07MKII 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 variable speed audition, limiting, low-cut filtering, chromatic tuner and others more can be chosen from the menu. Users may apply one out of six reverb effects to the input or output signal, and an Overdub feature allows recordings to be added to existing audio files. The 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 unit'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.

### Main Features

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

#### Recording features

- **Built-in cardioid stereo condenser microphone**
  - Accepts high sound pressure level
  - Easy setup (AB and XY configuration supported)
  - XY configuration allows mono compatible recordings and high sound localization acuity (lively interviews or field recordings with ambience)

#### 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 (50–150 %)**
- **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**

- Good directivity and channel separation
  - Ideal for live music and field recording, news gathering etc.
  - **Stereo mic/line input with plug-in power to connect an external source or microphone**
  - **Switchable low-cut filter (40 Hz, 80 Hz, 120 Hz)**
  - **Manual or automatic recording level setting**
  - **Three Options of automatic level control during recording: Peak Reduction, Auto Level, Limiter**
  - **Pre-recording buffer (2 seconds) allows a recording to start before the record key is pressed**
  - **Auto recording start and stop by input level**
  - **Self-timer allows a recording to start 5 or 10 seconds after pressing the RECORD button**
  - **Overdub feature to add narration, singing or instruments to an existing recording**
  - **Create a new file during recording (manually or by file size)**
  - **Mark function (manual or automatic)**
  - **Headphones/Line output**
- Other features**
- **Built-in reverb effect (6 presets, can be applied to input or output signal)**
  - **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 port 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-P515U)**
  - **Stand adapter (¼ inch) on bottom side to attach the unit to a tripod or microphone stand**

## Specifications

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)	68 mm x 158 mm x 26 mm (Mics folded in) 90 mm x 158 mm x 26 mm (Mics folded out)
Weight	0,127 kg (without batteries)
Operating temperature range	0–40 °C

Design and specifications subject to change without notice.

Last modified: 2015-02-12 12:33:10 UTC