

DR-100MKII

Portable linear PCM Stereo Recorder



The DR-100MKII, designed for professional recording applications in the field, offers high-quality recording directly in WAV or MP3 format from a rugged chassis. You can choose between two pairs of built-in uni-directional and omni-directional microphones, XLR inputs with switchable 48V phantom power, a separate mini jack line input and a digital input (SPDIF). This ensures that virtually all fields of application are covered – from music, speech and atmosphere recordings to meeting minutes and live concert recordings.

The recording level can be easily controlled by a twin hardware control rather than a menu option. Recordings can be started manually, automatically by level, advanced (by up to 2 seconds), delayed (to prevent key presses from being recorded) or with the help of the included remote control or an optional footswitch. A defeatable loudspeaker for playback is also included. You can make overdubs, manually create a new file during recording, divide a recording and use locate markers. The unit is further equipped with switchable automatic gain control and limiter, a switchable low-cut filter with three cutoff frequencies, line output, headphones output and USB connector.

The DR-100MKII comes with a 2-GB SD card, remote control, windshield and soft case and can be powered either by the included powerful lithium-ion rechargeable, two AA batteries, an optional battery pack or an optional AC adapter. The second battery source is used as redundancy allowing to change batteries while recording. The built-in mic stand screw socket allows the unit to be mounted on a tripod or microphone stand.

Main Features

- Handheld digital stereo recorder for professional use
- 2 separate types of batteries used together allow for many hours of operation as well as the ability to change batteries while recording
- MP3 and WAV file recording and playback
- Records to SD/SDHC card
- Selectable recording formats:
 - Linear PCM (WAV format), 16/24-bit
 - MP3 32/64/96/128/192/256/320 kbps
- Supported sampling frequencies: 96/48/44.1 kHz
- Four built-in high-quality condenser microphones
 - Two uni-directional microphones for stereo recording
 - Two omni-directional microphones for minutes recording
- Two lockable XLR mic/line inputs with switchable +48V phantom power
- High-performance preamp provides wide range of gain (–58 dBu (max trim) to +24 dBu (min trim))
- Three selectable input sensitivities (hardware switchable)
- Stereo line input with adjustable level to connect an external source (mini jack)
- Tandem hardware level control for intuitive recording level setting
- Digital input (to be used with included conversion cable)
- Switchable low-cut filter (40 Hz, 80 Hz, 120 Hz)
- Switchable auto gain control
- Headphones output with level control (mini jack)
- Separate stereo line output (mini jack)
- Pre-recording buffer (2 seconds) allows a recording to start before the record key is pressed
- Delayed recording feature to prevent the unit from recording a touch noise of keystroke
- Auto recording start and stop by input level
- Overdub feature to add narration, singing or instruments to an existing recording
- Mark function (automatic or manual)
- Create a new audio file during recording (manually or by file size)
- File divide function (to cut unwanted noise, for instance, WAV format only)
- File renaming
- Playback features include:
 - In/Out loop
 - Folder or playlist playback
 - Pitch control function (–50 % to +16 %)
 - Switchable VSA function (change playback tempo without affecting the key)
- Mic stand adapter (¼ inch) on bottom side to attach the unit to a tripod or microphone stand
- USB 2.0 connection for file transfer to/from computer
- Power supply by lithium-ion rechargeable ([BP-L2](#)), two AA batteries, optional battery pack (Tascam [BP-6AA](#)) or optional AC adapter (Tascam [PS-P520E](#))

- Limiter to prevent clipping (hardware switchable)
- Built-in monitor speaker (hardware switchable on/off)
- 2-Gigabyte SD card, RC-10 wireless remote control, windshield and softcase included as standard
- Footswitch with three pedals for various functions available as an option (Tascam [RC-3F](#))

Specifications

General

Recording media	SD cards (64 MB–2 GB) and SDHC cards (4 GB–32 GB)
Recording/playback format	WAV: 44.1/48/96 (HS mode) 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

XLR (MIC/LINE 1) IN connectors (Phantom power compatible)	XLR-3-32 (1: GND, 2: HOT, 3: COLD)
When MIC/LINE 1 switch is set to MIC (input impedance: 2.1 k Ω , high input sensitivity)	
Nominal input level	–70 dBu
Maximum input level	–54 dBu
When MIC/LINE 1 switch is set to MIC (input impedance: 2.1 k Ω , medium input sensitivity)	
Nominal input level	–42 dBu
Maximum input level	–26 dBu
When MIC/LINE 1 switch is set to MIC (input impedance: 2.1 k Ω , low input sensitivity)	
Nominal input level	–14 dBu
Maximum input level	+2 dBu
When MIC/LINE 1 switch is set to LINE 1	
Input impedance	2.5 k Ω
Nominal input level	+4 dBu
Maximum input level	+24 dBu
LINE 2 input (unbalanced)	3.5-mm stereo mini jack
Input impedance	22 k Ω or more
Nominal input level	–10 dBV
Maximum input level	+6 dBV
LINE output	3.5-mm stereo mini jack
Output impedance	200 Ω
When using LINE 1 connector as input	
Nominal output level	–14 dBV
Maximum output level	+6 dBV
Others	
Nominal output level	–10 dBV
Maximum output level	+6 dBV
Headphones output	3.5-mm stereo mini jack
Maximum output power	25 mW + 25 mW (32 Ω load)
Built-in loudspeaker	0.4 W (mono)

Digital audio input

DIGITAL input	2.5-mm TRS jack (using the conversion cable made for this unit)
Format	IEC60958-3 (S/PDIF)

Other inputs and outputs

USB port	Mini-B type
Format	USB 2.0 HIGH SPEED mass storage class
REMOTE connector	2.5-mm TRS jack

Audio performance

Frequency response (LINE IN to LINE OUT, Fs 44.1 kHz, JEITA)	20 Hz – 20 kHz, +1/–3 dB
Frequency response (LINE IN to LINE OUT, Fs 48 kHz, JEITA)	20 Hz – 22 kHz, +1/–3 dB
Frequency response (LINE IN to LINE OUT, Fs 96 kHz, JEITA)	20 Hz – 40 kHz, +1/–3 dB
Distortion (LINE IN to LINE OUT, Fs 44.1 kHz, +24 dBu input, JEITA)	<0.01%
S/N ratio (LINE IN to LINE OUT, Fs 44.1 kHz, +24 dBu input, JEITA)	92 dB or more
Note on JEITA: Conforming to JEITA CP-2150	

Requirements for connected computers

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

Power supply and other specifications

Power supply	Lithium-ion rechargeable battery made for this unit (TASCAM BP-L2) Two AA batteries (Alkaline or Ni-MH) AC adaptor (TASCAM PS-P520 , sold separately) External battery pack (TASCAM BP-6AA , sold separately)
Power consumption	4 W (maximum)
Battery life (continuous operation, JEITA recording/playback)	
Lithium-ion battery (BP-L2)	Approx. 5 hours
Ni-MH type battery (Eneloop)	Approx. 4 hours
Alkaline type battery (Evolta)	Approx. 2 hours, 45 minutes
External dimensions (W x H x D, excluding protrusions)	80 mm x 153 mm x 35 mm
Weight	0.29 kg (not including batteries)
Operating temperature range	0–40 °C 0–30 °C (for safe recharging of lithium-ion battery)

Design and specifications subject to change without notice.

Last modified: 2016-12-16 17:11:16 UTC