

# LS-12

- Mode Dial & Smart Mode
- Two high-sensitivity 90° mics
- Battery Life: Up to 50 hours of continuous recording
- Switchable low-cut filter (100Hz/300Hz)
- Linear PCM recording (96kHz/24bit)
- Acoustic resistance of 130 dBspl
- Separate audio & system circuitry
- Pre-record buffer



## Pro recordings made easy

Featuring a user-friendly Mode Dial, Smart Mode functionality and more, the LS-12 makes it easier than ever to achieve studio-standard audio results. This top sound quality is thanks to a high-sensitivity stereo microphone system with two mics set at 90 degrees for capturing expansive and true-to-life audio with low levels of noise up to an incredible 130 db SPL.

On top of this, you can also enhance your tracks still further with a range of sophisticated functions specifically developed for musicians to produce the very best recordings - including a Chromatic Tuner for getting instruments in tune, a Metronome for keeping everything in time, high-powered overdubbing capabilities and variable playback speed control.

## Specifications

### Storage Media

Internal / Removable Media	Internal + Removable
External Memory (Slot)	SD / SDHC card (512 MB - 32 GB)
Internal memory	2GB

### USB functionality

USB Speed	USB 2.0 High Speed
USB Classes	USB Storage class USB Composite device

### Display

Display Backlit	Yes
Display colour	White
Display Type	Full Dot Matrix Display
Display Size	30.1 x 35.4mm / 1.83"

### Device operation

Mode select dial	Yes
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### Recording Modes

Recording format	PCM / MP3
96kHz / 24bit	40min
88.2kHz / 24bit	45min
48kHz / 16bit	2h 10min
44.1kHz / 16bit	2h 20min
44.1kHz (Mono)	4h 40min
320 kbps	10h
256 kbps	13h
128 kbps	26h
64 kbps (Mono)	52h
Smart Rec	Yes
PCM (WAV) format	
MP3 format	

### Playback Modes

Playback format	PCM (WAV) / MP3
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## Frequency response

96 kHz	20 - 44.000Hz
88.1kHz	20 - 42.000Hz
48kHz	20 - 23.000Hz
44.1kHz	20 - 21.000Hz
44.1kHz (Mono)	20 - 21.000Hz
320 kbps	20 - 20.000Hz
256 kbps	20 - 20.000Hz
128 kbps	20 - 17.000Hz
64 kbps (Mono)	20 - 13.000 Hz
MP3 format	
PCM (WAV) format	
Internal microphones	60 - 20.000Hz

## Record function

Index	Yes
Auto recording	Pre-Recording
Sound control	Rec Monitor Manual Rec level control Low Cut-Filter
Advanced recording	Direct recording Overdubbing

## Playback function

Gapless Playback	Yes
Playback control	Playback Speed Control
Repeat functions	Repeat playback

## Data organisation

File move	Yes
File divide	Yes
File Copy (Folder to Folder)	Yes
File Copy (internal memory - external memory)	Yes
Time/date info	Yes
Erase	Erase all files Erase single files Partial (PCM only)

## Other Features

Remote Control	Yes (optional)
Chromatic Tuner	Yes
Metronome function	Yes

## Interfaces Input

LINE IN input level	- 6 dBv
PC interface	USB Cable
Microphone sensitivity / gain	High / Middle / Low
Microphone jack	3.5 ø mm mini-jack, impedance 2 k
LINE IN jack	3.5 ø mm jack, impedance 10 k .

## Interfaces Output

Max. working output	300mW or more (8 speaker)
Maximum headphone output	2 mW + 2 mW
Speaker Diameter	Built-in ø 28 mm round dynamic speaker
Earphone jack	3.5 ø mm jack, impedance 8 or more

## Power Supply

Power Supply	AA batteries (LR6 or ZR6) or two Ni-MH rechargeable batteries
Alkaline battery life	Recording: 50h
External power supply	USB connecting AC adapter (A-514)

## Dimensions

Weight	170g (incl. batteries)
WxHxD	52.5 x 138.7 x 23.5mm

## Languages

Menu languages	EN/FR/DE/IT/ES/RU/PL/CS/ SV/DA/NL/CN/TW
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## Operating Systems & Requirements

Windows	Operating system: Microsoft Windows XP/ Vista/7/8
Macintosh	Operating system: Mac OS X 10.4.11 - 10.8

## Microphone System

TRESMIC (3 Mic System)	No
Max. Sound Pressure	130dB SPL