

# LS-100

- Variety of sound enhancement & editing functions
- Lissajous, key shift and playback speed control
- Automatic Gain Control (AGC)
- 4GB memory plus SD(XC) slot
- Li-Ion battery, AC adapter, USB converter and case included
- Linear PCM (24bit/96kHz) / MP3 / BWF
- Pre-, automatic & remote\* recording (\*optional)
- L/R independent recording level setting via dial control



## Multi - Track Linear PCM Recorder

The pioneering LS-100 offers a level of sound quality and a range of recording versatility that is sure to impress even the most revered professionals in the music, production or broadcasting industries. Robustly built for on-the-job reliability, it is equipped with a host of high-performance features including an XLR connection for individually setting the recording level for the L/R channel and phantom power supply (48V/24V) - producing professional studio-level results every time. High-end directional microphones able to capture up to an impressive 140dB sound level and premium amplifier circuitry are dedicated to capturing full depth and accurate audio imaging, be it from a loud rock concert or the delicate sound of a classic instrument. The superior true stereo 90° microphone system is enhanced further by advanced in-built technology such as a low-cut filter for reduced noise and adjustable mic sensitivity, also delivering an outstanding S/N ratio. Linear PCM (24bit / 96kHz) recording is complemented by Broadcast Wave Format (BWF) and multi-tracking capabilities, enabling professionals to record, edit, tweak and re-record multiple sound sources with maximum flexibility, culminating in a cohesive audio whole of outstanding clarity. Further flexibility is provided by overdubbing, pre-, automatic and remote\* recording. The LS-100 is professional in every respect - and delivers portable recording at a high performance level. (\*optional)

## Specifications

### Storage Media

Internal memory	4GB
External Memory (Slot)	SD/SDHC/SDXC

### USB functionality

USB Speed	USB 2.0 High Speed
USB Classes	USB Audio class USB Storage class USB HID

### Display

Display Type	Full colour display
Display Size	42 x 34.5mm / 2"
Display Backlit	LED

### Device operation

Programmable button	3 (F1 - F3)
HOLD switch	Yes
Power switch	Yes

### Recording Modes

Recording format	PCM (WAV) / MP3
Broadcast Wave	Yes

#### Format

#### PCM (WAV) format

96kHz / 24bit	1h 35min
96kHz / 16bit	2h 15min
88.2kHz / 24bit	1h 30min
88.2kHz / 16bit	2h 30min
48kHz / 24bit	3h 00min
48kHz / 16bit	4h 45min
44.1kHz / 24bit	3h 15min
44.1kHz / 16bit	5h 00min
44.1kHz (Mono)	10h 00min

#### MP3 format

320 kbps	22h 30min
256 kbps	28h 30min
128 kbps	57h 00min
64kbps	114h 00min

### Playback Modes

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

	256kbps / 50 - 20000Hz
	128kbps / 50 - 17000Hz
	64kbps (mono) / 50 - 8000Hz
	88.2kHz / 20 - 40000Hz
	48kHz / 20 - 23000Hz
	44.1kHz / 20 - 21000Hz
	44.1kHz (mono) / 20 - 21000Hz
PCM	96kHz / 20 - 44000Hz
MP3	320kbps / 50 - 20000Hz

### Record function

Operation	
Index	Up to 99 per file
Auto recording	Voice Sync Pre-Recording
Advanced recording	Rec Monitor Over 2GB Recording Multitrack Recording Manual Rec level control Low Cut-Filter Overdubbing Playback Synchro Recording Automatic Gain Control (Auto) Compressor Limiter

### Playback function

Playback control	Intro Play
Playback speed	Fast (Max. x4) / Slow (Min. x0.5)
File operation	Forward / Reverse Skip FF/REW
File selection	File Playback List Playback
Repeat functions	A-B repeat playback
Advanced Play	Key shift Skip Space

## Data organisation

Erase	Erase all files Erase single files Partial (PCM only)
Files per folder	Max. 999
No. of folders	5
File move	Yes
File divide	Yes
File Copy (Folder to Folder)	Yes
Time/date info	Yes
File Lock	Yes
File Replace	Yes
MP3 encode	Yes

## Multi-track Recording

Projects	Max. 999
Tracks per project	8tracks
Files per project	Max. 999
Volume	Yes
Mute	Yes
L/R panning	Yes
Erase project	Yes
Bounce	Yes

## Other Features

Voice guidance	Yes
Lissajous	Yes
CD writing	Yes; with optional external CD writer
Tripod socket	Yes
Metronome	Yes
Countdown	
Metronome Tempo	40 - 208
Metronome Sound	2
Metronome Pattern	Yes (No accent, 1/4 - 8/4, 6/8)
Tuner Calibration	435 - 445Hz
Chromatic Tuner	Yes
Guitar Tuner	Yes
Bass Tuner	Yes
Remote Control	Yes (optional)

## Interfaces Input

Microphone angle	90°
Microphone sensitivity / gain	High / Middle / Low- (Hi/Lo for XLR)
LINE IN / MIC Jack	Yes
XLR / Phone Jack	Yes

## Interfaces Output

Max. working output	430 mW
Speaker Diameter	23 mm
LINE OUT / EAR Jack	Yes

## Power Supply

Power Supply	Battery: LI-50B Rechargeable Lithium-Ion battery
Li-Ion battery life	Recording: Max. 12h 30min
External power supply	USB connecting AC adapter (A-514)
Plug-in power	Yes
Phantom power supply	48V / 24V
Battery charge	Yes
	Playback: Max. 17h 30min

## Dimensions

Height	70mm
Width	159mm
Depth	33.5mm
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Weight	280g

## Exterior

Housing material	Metal
Housing colour	Black

## Languages

Menu languages	EN,FR, DE, IT, ES, RU
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## Operating Systems & Requirements

Windows	Operating system: Windows XP (SP2 or later), Windows Vista, Windows 7
Macintosh	Operating system: Mac OS X 10.4.11 - 10.7

## Recommended Application Area

Application	Video Music Broadcasting
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