



OLYMPUS LS-3 Linear PCM Recorder User Manual

[Home](#) » [Olympus](#) » OLYMPUS LS-3 Linear PCM Recorder User Manual 

Contents

- [1 OLYMPUS LS-3 Linear PCM Recorder](#)
- [2 PCM quality pocket-sized](#)
- [3 Specifications](#)
- [4 USB functionality](#)
- [5 Display](#)
- [6 Device operation](#)
- [7 Recording Modes](#)
- [8 Frequency response](#)
- [9 Record function](#)
- [10 Playback function](#)
- [11 Data organisation](#)
- [12 Other Features](#)
- [13 Software](#)
- [14 Interfaces Input](#)
- [15 Interfaces Output](#)
- [16 Power Supply](#)
- [17 Dimensions](#)
- [18 Languages](#)
- [19 Operating Systems & Requirements](#)
- [20 Documents / Resources](#)
- [21 Related Posts](#)

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OLYMPUS LS-3 Linear PCM Recorder



- Pocket-sized linear PCM recorder with 24bit/96kHz sampling rate
- 4GB internal memory plus microSD(HC) slot
- WAV/WMA/MP3 recording formats
- Partial Erase, File Divide, Move and Copy
- 3 microphones (stereo directional MIC and centre omni-directional MIC)
- Pre-recording: starts up to 2 seconds before recording button is pressed
- Rechargeable batteries & USB charging function

PCM quality pocket-sized

With the Olympus LS-3 you can have it all: Superb sound quality, smooth operation and a durable, take-me-anywhere design concept that fits in literally every pocket. Despite its minimal weight - just 90g with batteries - and its incredibly small size, you'll find many examples of advanced sound engineering: Awesome superior-to-CD quality sound due to the 24bit/96kHz PCM format, two directional microphones with 90° orientation for most natural stereo recording, plus an omni-directional centre microphone capable of capturing lower bass ranges with stunning clarity. If it's a bit hectic you will love the pre-recording option, which enables you to start recording up to 2 seconds before you press the recording button. The built-in 4GB memory enables, for instance, 65 hours of recording time in popular mp3 format (128 kbps). If that's still not enough you can extend the recording capacity using the microSD(HC) card slot. Furthermore, the LS-3 comes with rechargeable Ni-MH batteries and an internal USB charging function ideal for people on the move. Whether you're a musician looking to record practice sessions, shows or song ideas, a nature enthusiast with a passion for capturing bird songs, a journalist, choir or theatre director, or simply anyone who demands exceptionally clear, crisp sound, the pocket-sized LS-3 is must-have gear.

Specifications

Storage Media

- Internal memory 4GB Flash Memory

- microSD / microSDHC Yes
- cardUSB functionality

USB functionality

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

Display

- Display Type Full Dot Matrix Display
- Display Size 31 x 29.7mm 1.69"
- Display Backlit Yes

Device operation

- HOLD switch Yes

Recording Modes

Recording format PCM (WAV) / MP3 / WMA

PCM (WAV) format

- 96kHz / 24bit 1h 45min
- 88.2kHz / 24bit 1h 55min
- 48kHz / 16bit 5h 25min
- 44.1kHz / 16bit 5h 55min
- 44.1kHz (Mono) 11h 55min

MP3 format

- 320 kbps 26h
- 256 kbps 32h 30min
- 128 kbps 65h 30min
- 64 kbps (Mono) 4682min 40 21000

WMA format

- 128 kbps 64h
- 64kbps 128h
- 32 kbps 257h
- Mono 1007h

Frequency response

Internal microphones

- Center Mic = ON 20 - 20.000Hz
- Center Mic = OFF 70 - 20.000Hz
- MP3 320kbps / 40 – 20000Hz
- 256kbps / 40 – 20000Hz
- 128kbps / 40 – 17000Hz
- 64kbps (mono) / 40 – 13000Hz
- PCM 96kHz / 40 – 44000Hz
- 88.2kHz / 40 – 42000Hz
- 48kHz / 40 – 42000Hz
- 44.1kHz / 40 – 21000Hz
- WMA 128kbps / 40 – 19000Hz
- 64kbps / 40 – 16000Hz
- 32kbps / 40 – 9000Hz
- (mono) / 40 – 3000Hz

Record function

Operation

- Index Up to 16 per file
- Auto recording Pre-Recording
 - Voice Sync
 - VCVA (Variable Control Voice
 - Actuator)
 - Timer recording
- Recording Scenes User Defined Setting
- Advanced recording Rec Monitor
 - Low Cut-Filter
 - Zoom Mic. Setting (DVM)
 - Manual Rec level control
 - Limiter
 - Compressor

Playback function

- Gapless Playback Yes
- Playback control Fast play
 - Slow Play
 - Cue/Review
 - Intro scan

- File operation Fast forward and rewind
- Forward / Reverse Skip
- Repeat functions Repeat playback
 - A-B repeat playback
- Automatic playback Alarm playback
 - Random playback
- Sound enhancement Noise Cancel
 - Voice Filter
 - Reverb
 - EUPHONY
- Playback Scenes 3 settings storable

Data organisation

- Erase Erase all files
 - Erase single files
 - Erase lock
 - Partial (PCM only)
- No. of folders 5
- Folder Music max. 200
- Files per folder 200
- Time/date info Yes
- File move Yes
- File divide Yes (Only PCM and MP3 files)
- File Copy (Folder to
 - Folder)
- Yes
- File Copy (internal
 - memory – external
 - memory)
- Yes
- device format Yes

Other Features

- Beep signal (system sound)
 - Yes
- Voice guidance Yes
- Remote Control Yes (optional)
- Tripod socket 1/4"

Software

- Corresponding Audio software

- Sonority

Interfaces Input

- PC interface USB Cable
- Microphone jack 3.5 ø mm mini-jack, impedance 2.2
 - kΩ
- Microphone input level -70dBv
- Microphone
- sensitivity / gain
- High / Middle / Low-

Interfaces Output

- Earphone jack 3.5 ø mm mini-jack, impedance 8Ω or
 - more
- Maximum headphone
- output
- ≤ 150 mV
- Speaker 20mm (mono) / Built-in round
 - dynamic speaker
- Max. working output 400mW (8 Ω speaker)

Power Supply

- Max. Battery Life Alkaline Battery, 44h Rec., WMA
- mono
 - Alkaline Battery, 30h Rec., 44.1kHz
 - (PCM)
- External power supply USB connecting AC adapter (A-514)
- Power Supply Battery: 2 x AAA
- Internal Charging AC / USB

Note: Internal charging operable only with Olympus rechargeable batteries. AC-adaptor and cradle are optional items.

Dimensions

Weight 90g (incl. batteries)
HxWxD 112 x 39.8 x 15.9mm (without protrusions)

Languages

- Menu languages EN, ES, FR, DE, IT, RU, PL, CS, SV,


- DK, NL, BR, CN

Operating Systems & Requirements

- **Windows Operating system:** Windows XP (SP2 or later), Windows Vista, Windows 7 (Free USB port)
- **Macintosh Operating system:** Mac OS X 10.4.11
- - 10.6 (Free USB port)
- Exterior
- Housing material Aluminium
- Housing colour Black

Specifications and appearances are subject to change without any notice or obligation on the part of the manufacturer

Documents / Resources

	<p>OLYMPUS LS-3 Linear PCM Recorder [pdf] User Manual LS 3, Linear PCM Recorder, LS 3 Linear PCM Recorder</p>
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