



LSseries LS-P4

TRESMIC
3 MICROPHONE SYSTEM



FLAC PCM MP3	3 microphone system TRESMIC	120dB SPL	8GB	Micro SD	USB Direct	AAA x1	Battery charge	AC Drive *1	Zoom	2-mic Noise Cancell *2	Manual Rec Level
Limiter	Intelligent Auto Mode	Lowcut Filter	Voice Sync	VCA	Noise Cancel	Voice Playback	Voice Balancer	Playback Speed Control	Overdub	Normalize	Trimming
File Divide	Fade in Fade out	File Copy	Index function	Bluetooth	Voice guide	Calendar Search	Scene Select	Tripod Hole	Remote *4	PEAK Lamp	Music Player
Low Power Consumption											

*1. Requires optional AC adapter. *2. When using 'Noisy Situation' recording scene.
*3. Requires bundled tripod adapter. *4. Requires "OLYMPUS Audio Controller BT" Android App.

Compact, Bluetooth equipped LS-P4. Experience high resolution recording on the go.

Product features

TRESMIC three microphone system for high-quality sound recording

Olympus' advanced TRESMIC 3 microphone system provides the most accurate stereo sound capture possible. It uses two directional microphones for recording high-quality stereo sound, and a third omni-directional centre microphone that picks up the lower frequency bass. This microphone array delivers a wide frequency response of 20 Hz to 20 kHz when the centre microphone is on, and 60 Hz to 20 kHz when off.

Bluetooth compatible for an expanded range of use

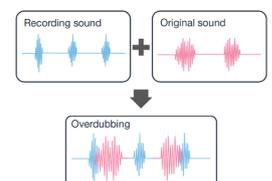
Share your recordings with your friends, cable-free thanks to the LS-P4's built-in wireless Bluetooth connectivity. Playback recorded audio, or use the recorder to playback your music via compatible Bluetooth headphones or speakers. For Android users, the free Olympus Audio Controller BT app allows you to remotely control the recorder from your smart device.

Record and playback in FLAC lossless compression format

The LS-P4 is the first linear PCM recorder from Olympus compatible with the FLAC lossless compression format. FLAC is a format that allows file sizes to be compressed while maintaining the same sound quality as linear PCM. Due to the VBR (variable bit rate) encoding of FLAC, the quality is always lossless while the resulting bitrate is equal to the information in the original signal. This format is primarily used as the preferred format for high-resolution sound source distribution websites.

Convenient range of on-board editing functions

The overdubbing function allows you to dub sound over a file while listening to it. Create an original recording using sources such as music CDs to make a unique recording in which you "perform together" with pro musicians. Add sound effects such as the bustle of the city or bird calls for subtle arrangements on top of existing data to make something original. The new Fade-in / Fade-Out feature gradually increases the volume of the sound from the first second of the sound source and reduces volume over the last second to produce a smooth transition from track to track.



OLYMPUS

music & sound
digital recording

Specifications

General		
Stereo / Mono (Built-in microphone)	90°Directional stereo microphone / Omnidirectional center microphone (TRESMIC)	
Recording format	PCM (WAV) / FLAC / MP3	
Max. sound pressure level	120dB SPL	
Internal memory	8GB	
External memory	microSD (Max. 32GB)	
PC connectivity	Direct USB 2.0 High Speed	
Plug-In power	✓	
Bluetooth	✓	
Wireless remote control	✓ (Free smartphone app, Android only)	
Recording		
Microphone sensitivity	Hi/Mid/L0/Auto	
Manual recording level setting	✓	
Limiter / Compressor	✓ (Limiter)	
Overdubbing	✓	
Zoom microphone	✓	
Voice activated recording	VCVA (Variable Control Voice Actuator) / Voice Sync	
Low-cut filter	✓	
2 mic noise cancellation	✓ ('Noisy Situation' Recording Scene)	
Internal microphone frequency range	20Hz~20kHz (Center Mic ON)	
	60Hz~20kHz (Center Mic OFF)	
Overall frequency response		
PCM (WAV) / FLAC	96kHz	20~44,000Hz
	88.2kHz	20~42,000Hz
	48kHz	20~23,000Hz
	44.1kHz	20~21,000Hz
MP3	320kbps	20~21,000Hz
	128kbps	20~17,000Hz
	64kbps mono	20~13,000Hz
Recording time (approx)		
PCM (WAV)	96kHz	24bit: 3hr 30min
	88.2kHz	24bit: 3hr 45min
	48kHz	24bit: 7hr / 16bit: 10hr 30min
	44.1kHz	24bit: 7hr 30min / 16bit: 11hr / mono: 22hr 30min
FLAC	96kHz	24bit: 5hr
	88.2kHz	24bit: 5hr 15min
	48kHz	24bit: 10hr / 16bit: 15hr
	44.1kHz	24bit: 10hr 30min / 16bit: 16hr / mono: 32hr 30min
MP3	320kbps	50hr
	128kbps	126hr
	64kbps mono	253hr
Playback		
FLAC playback	✓ (44.1/48/88.2/96kHz, 16/24bit, mono/Stereo)	
Playback speed control	3.5X - 0.5X	
Forward / Reverse skip	✓	
A-B repeat	✓	
Others		
File divide	✓ (PCM/MP3)	
Partial erase	✓ (PCM)	
Trimming	✓ (PCM)	
Fade-in / out	✓ (PCM)	
Normalise	✓ (PCM/MP3)	
Index marks	✓ (Up to 99 per file)	
Voice guidance	✓	
Other functions	Voice Playback, Voice Balancer, Equalizer, Recording scene select, Calendar Search	
Power requirements	AAA alkaline battery x 1, or AAA Ni-MH rechargeable battery x 1	
Battery life - Recording	39hr	
Battery life - Playback	31hr (Earphone)	
Internal battery charge	✓	
Speaker / Maximum output	Built-in ø18mm round dynamic speaker / 150mW	
Dimensions (HxWxD)	108.9 × 39.6 × 14.4mm	
Weight (including batteries)	75g	

Specification and design are subject to change without notice

Accessories (included)



1. AAA Ni-MH rechargeable battery x 1 (BR-404)



2. Tripod Adapter (TR2)

Features

Three-Microphone System TRESMIC

Stereo microphones plus a center mic for high fidelity recording

Peak indicator lamp

Equipped with a peak lamp to indicate if a recording is clipping

USB lever

The USB connector can be easily pulled out and stored using the slide lever

Control buttons

An easy-to-operate button layout

Attachment mounting hole

A tripod adapter can be attached

Built-in speaker

microSD card slot

Supports microSD cards up to 32GB capacity

Typical Examples



Music practice



Choir practice



Sampling recording



Band rehearsals



Over dubbing



Kids recitals



Remote control

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