



Loewe **leo**

Wireless ANC headphones

Superior quality of 50 mm drivers and amps for an exceptional audiophile sound experience

Sophisticated AI features with personal voice assistant and real time translation

Adaptive Noise Cancelling (ANC) system with situational response

Support of major audio codecs including Hi-Res Audio, Dolby Atmos and Spatial Audio

Latest Bluetooth technology with Bluetooth LE Audio and support for multi device pairing

Best wearing comfort with exchangeable headband and ear cushions in three colours



LOEWE. was established by the Loewe brothers as Radio Frequenz GmbH in Berlin in 1923.

Today we still design, develop and produce consumer electronics – Made in Germany.

Data sheet
Loewe **leo**
September 2025

LOEWE.
Home of Excellence.

www.loewe.tv



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Made to outperform.

Experience exceptional sound clarity with high-performance 50 mm drivers and the advanced Texas Instruments OPA1622 SoundPlus™ amplifier. With ultra-low Total Harmonic Distortion plus Noise (THD+N) and bipolar inputs, this combination delivers crystal-clear highs, deep controlled bass, and a rich, immersive sound-stage. Every element is crafted using premium-grade components to ensure pure, true-to-source audio reproduction - exactly as the artist intended.



Adaptive Noise Cancellation.

Immerse yourself in pure sound with cutting-edge Adaptive Noise Cancellation. ANC continuously analyses your surroundings and adjusts in real-time for optimal quiet - whether you're commuting, working, or flying. The headphones intelligently detect when someone speaks directly to you and automatically balances noise cancellation and transparency, so you never miss a moment that matters.



Support of major audio technologies.

Loewe leo supports the latest LC3plus audio codec for all major sound-quality standards, like wired and wireless Hi-Res Audio, as well as Dolby Atmos—including Spatial Audio. It also features Mimi Hearing Technologies' Sound Personalization for Headphones to adapt audio to your personal hearing profile. Additionally, it is Apple MFi certified for seamless compatibility. Bluetooth LE Audio protocols ensure both extended playback time and high-quality sound over distances up to 10 meters.



Bluetooth with BLE and multi device.

Stay connected with Bluetooth Low Energy (BLE) Audio for quicker pairing, low power consumption, and high transmission stability. Effortlessly switch between your smartphone, tablet, and laptop with multi-device support - ensuring a smooth and continuous listening experience across all your devices.



Designed for highest wearing comfort.

Crafted for extended wearing duration, Loewe leo headphones ensure lightweight feel with memory foam ear cushions and an ergonomic shape that fits perfectly to your head. Premium materials and thoughtful design ensure maximum comfort, no matter how long your listening sessions last.



Advanced AI features.

Loewe leo brings powerful AI-driven features to your everyday life. A built-in voice assistant helps you manage tasks, get updates, and stay connected — hands-free. Combined with real-time translation, it creates a smart audio companion that supports you throughout your day, both in sound and function. Enabled by Bragi with OpenAI.

Loewe leo

Wireless ANC headphones



Real-time translation.

Break language barriers with real-time voice translation directly through your headphones. Instantly understand multiple languages - perfect for travel, meetings, or everyday conversations. Fast, intuitive, and built to adapt to your needs, it's like having a personal interpreter with you at all times. Enabled by Bragi with OpenAI.



Intuitive user interface.

Navigate your sound experience with precision and ease. The intuitive user interface features two finely crafted control wheels and dedicated action buttons, giving you instant access to volume, playback, and other key functions - without ever breaking your flow. The interface is thoughtfully designed for smooth, intuitive operation at your finger tips.



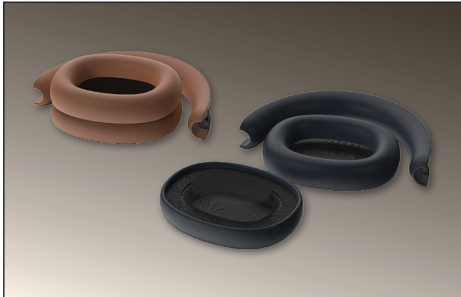
Sustainable design. Built to last.

Loewe leo is designed with sustainability at its core. The modular structure ensures users can replace or upgrade components like the battery, which has a long lasting play time of up to 65 hours, the magnetic cushions or the headband, significantly reducing electronic waste. Durable materials such as anodized aluminium and genuine leather enhance longevity, while a service deck simplifies maintenance, aligning with Loewe's commitment to creating lasting, repairable products.



Real materials.

From the moment they're worn, Loewe leo envelops all users in a luxurious experience. The lightweight yet robust materials deliver all-day comfort without compromising on quality or durability. From durable anodised aluminium to soft genuine leather, every detail is carefully crafted to deliver a refined and premium listening experience. The intuitive dual-dial system ensures seamless operations.



Individual customisation.

Make Loewe leo truly yours with accessory kits in three colour options. Easily swap the magnetic ear and head band cushions - crafted from durable, genuine leather with unique texture and grain. Fine-tune your audio settings and personal preferences through the Loewe leo app for a fully tailored experience. Enhance the possibilities of your headphones through the audio app store.



Built-in personal assistant.

Manage your day effortlessly with the integrated AI-powered personal assistant. From setting reminders and sending messages to checking the weather and getting real-time updates, your headphones become your smart daily companion. Always ready with a voice command, it brings convenience and control to every moment. Enabled by Bragi with OpenAI.

	Model	Article
 moonlight beige	leo	64641
 midnight blue	leo	64641
 moonlight beige	accessory kit	64644
 midnight blue	accessory kit	64644
 horizon bronze	accessory kit	64644

Loewe **leo**

Wireless ANC headphones

Complete delivery



Valuable gift box with original slip case and cover according to model colour. Including printed quick start guide.



Two-in-one hard case made of felt wool and applicable as flip-over display stand with magnetic fixation.



Complete set with hard case, leather pouch and adapter cables with gold plated connectors in separate pocket.



Genuine leather pouch matching the color of the headphones cushions for protected transport in daily use.

Optional accessory kits



Accessory kits in three colours with magnetic exchangeable headband cushion and ear cushions.



Loewe leo in moonlight beige.



Loewe leo in midnight blue.



Loewe leo in horizon bronze.

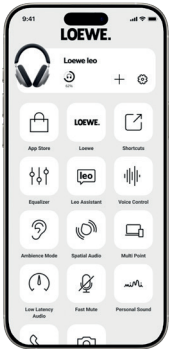
Setup and app



Start your setup journey



Download & discover the Loewe leo app



Loewe leo app for iOS and Android with app store

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Loewe leo app

App Store

Download more apps, functions and features.

Loewe

Visit the Loewe website.

Shortcuts

Set most-used commands for instant control.

Equalizer

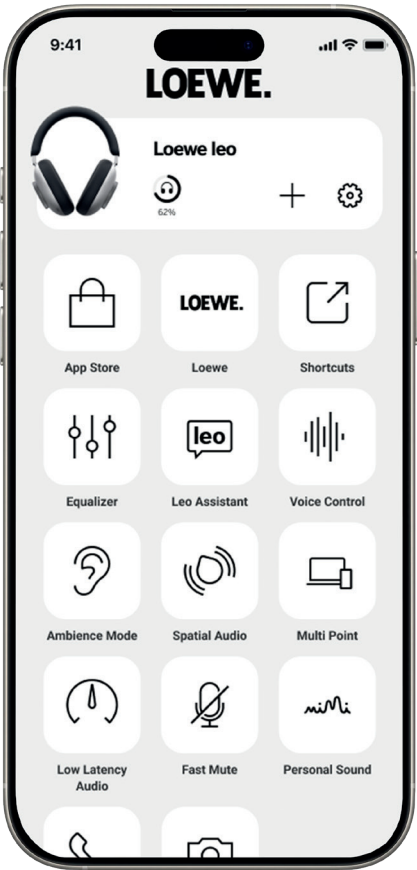
Fine-tune the sound with custom EQ.

Leo Assistant*

Activate the assistant and ask him anything.

Voice Control

Manage the headphones with voice control.



Ambience Mode

Switch between ANC and Transparency mode.

Spatial Audio

Immersive 3D soundscape or classic stereo.

Multipoint

Connect with multiple other devices.

Low Latency Audio

Perfectly synced sound in games and movies.

Fast Mute

Mute the microphone instantly.

Personal Sound

Sound personalization with Mimi hearing test.

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Additional information

www.loewe.tv



my Loewe app



Your Loewe contact

We are happy to help personally.

Our Loewe Customer Care Center is here for you:
Monday to Friday 09:00 – 17:00 o'clock
ccc@loewe.de | 0049 9261 99 500

Your Loewe dealer

Loewe leo

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Technical data (preliminary)	
Loewe headphones	
leo	
Audio (acoustic)	
Frequency range (ca. Hz) @ ±3 dB	20-20.000
Sound pressure level (ca. dB) @ 1m, pink noise, max. vol.	acc. to §
Orientation front / side / up / rear firing	over-ear
Acoustic speaker concept	vented headphone
Channel configuration	2.0 (stereo)
Driver total amount	2
Driver active	2 (50 mm, OCE - olefin composite elastomer)
Audio (electric)	
Frequency range (ca. Hz) @ ±1 dB	20-20.000
Integrated power amplifier	TI OPA1622 SoundPlus™
Bass and treble control / loudness / night mode	● (via app)
Dolby Audio / Digital / Digital Plus / Volume / Atmos / Atmos Music	optimized for Dolby Atmos
General features and interfaces	
Status LED	● (RGB)
my Loewe app / smart apps (all: Android + iOS)	● / ●
Voice control by Alexa Skills	● integrated
Software update (via USB / Internet)	● via BT / via app
USB / USB music player	● / ● (USB audio device)
Bluetooth / Bluetooth music player	● / ●
Hi-Res Audio / Hi-Res Audio wireless	● (192 kHz, 24 bit) / ● (96 kHz, 24 bit)
Microphone	● 5 (hands-free phone, ANC)
Analogue audio jack in (3,5 mm stereo)	● (via adapter cable)
Headphone specific features	
ANC / transparency mode / adaptive mode	● / ● / ●
Loewe app / app store	● / ●
AI based comfort features / account / subscription	○ (enabled by Bragi with OpenAI) / ○ / ○
Voice assistant	●
Mimi Hearing Technologies	● (Sound Personalization for Headphones)
Apple MFi certified	●
Configurable action buttons	●
Carrying pouch / leather	● / ●
Replacable headband cushion / ear cushions	● / ●
Replacable battery	○ (via service)
Bluetooth standard	5.3
Bluetooth power (mW)	<4 (range approx. 10m)
Bluetooth frequency range	2400-2483,5 MHz
Bluetooth protocols	A2DP, AVRCP, AVDTP, AVCTP, GAVDP, HFP, HID, HSP, LE Audio
Supported audio formats	SBC, AAC, LC3, LC3+
Mobility	
Battery type	3,7V / 660mAh
Playing time (ca.)	typ. 65h (ANC off)
Charging time	typ. 2h
Charging current	660mA
Charging power minimum request	2,5W
Charging power for max.speed	3,75W
Water and dust protection	IP53
Ambient temperature while in operation	0-40° C
Relative humidity (non-condensing)	20-90%
Dimensions	
Weight (ca. g)	360
W* x H x D (ca. cm)	min.: 19 x 19 x 4,5 / mid.: 18,5 x 15 x 8,5 / max.: 20 x 16,5 x 8,5
Scope of Delivery	
Manual / power cord	● (quick start guide) / USB-C cable
Other cable	leather pouch, hard case, cable pocket, AUX > USB-C cable
Optional accessories	
Selection of recommended extras	Loewe leo accessory kits: moonlight beige midnight blue horizon bronze

● = available, ○ = optional, — = not available

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Leo Assistant: 1 year free usage with 30.000 interactions. Afterwards subscription for 7,99 € per month.