QUANTUM 850 WIRELESS

Wireless multiplatform gaming headset with Adaptive Noise Cancelling







Hi-Res AUDIO

Sound is survival.

When every decision counts, your audio needs to keep up. The JBL Quantum 850 Wireless gaming headset is built for competitive players who demand precision, focus, and total control.

50mm carbon dynamic drivers respond instantly, delivering powerful low-end impact and extended high-frequency detail, so you pick up subtle cues before anyone else. JBL Quantum Spatial Sound with head tracking, sharpens your positioning and movement awareness, helping you process more battlefield information in real time. Adaptive Noise Cancelling minimizes ambient distractions, keeping your concentration steady during high-stakes moments. Your voice stays clear and focused thanks to the 6mm unidirectional cardioid boom mic designed to keep your callouts clear.

Connect seamlessly to multi-gaming platforms via the low-latency 2.4 GHz dongle, Bluetooth® 5.3, or with wire to enjoy Hi-Res audio. Customize your sound profile, refine your mic, and activate advanced features inside JBL QuantumENGINE. With an air mesh hammock headband, improved weight distribution, and a replaceable system for cushions, mic, and battery, the JBL Quantum 850 Wireless is built for long sessions—and serious competition.

Features

- 50mm carbon dynamic drivers for the epic JBL Quantum Sound
- JBL QuantumENGINE
- Adaptive Noise Cancelling
- JBL Quantum Spatial Sound with head tracking
- Cardioid Noise Cancelling boom mic
- Dual wireless connection
- Low latency wired USB audio
- Premium comfort design
- Replaceable components
- Up to 30 hours of playtime
- Multi-platform compatibility
- Zoom certification
- Sustainability

Bluetooth®

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Features and Benefits

50mm carbon dynamic drivers for the epic JBL Quantum Sound
Powerful low-end impact and extended high-frequency detail help you catch subtle cues before they become threats. The 50mm carbon dynamic drivers deliver controlled, responsive audio with minimal distortion—so you process more battlefield information and react with confidence.

JBL QuantumENGINE
Use your device-specific JBL QuantumENGINE dashboard to customize your preferred sound profile, spot where in-game sounds are coming from with a real-time sound visualizer, reduce keyboard noise, optimize the mic's performance and noise reduction. JBL QuantumENGINE lets you create custom profiles for every game, keeping your setup tuned to your strengths. It works on all platforms and connects all your JBL Quantum headsets simultaneously.

Adaptive Noise Cancelling
Stay focused and keep your competitive edge. Adaptive Noise Cancelling tunes out distractions, keeping you immersed in your game's unique soundworld.

JBL Quantum Spatial Sound with head tracking
Hear more. React faster. JBL Quantum Spatial Sound, powered by JBL QuantumENGINE, puts you right in the game. You hear exactly where every footstep, reload, and explosion is coming from, with pinpoint accuracy that gives you the edge. The sound stays locked in place — even when you turn your head thanks to the head tracking technology — so nothing breaks immersion. It's like having a real-time tactical map for your ears, helping you react faster and stay one move ahead.

Cardioid Noise Cancelling boom mic
The 6mm unidirectional mic with cardioid pattern makes sure your team can always hear you loud and clear but doesn't hear your keyboard thanks to the noise reduction technology through JBL QuantumENGINE. And the mic is also detachable for extra convenience.

Dual wireless connection
Connect simultaneously to 2.4Ghz USB-C wireless dongle for game audio and Bluetooth 5.3 for mobile, so that you can keep focused on your game, vibe to your playlist or take calls without interrupting your flow.

Low latency wired USB audio
USB-C and 3.5mm wired connections provide stable, low-latency audio with Hi-Res certification. When precision timing is critical, the wired connection keeps everything perfectly in sync.

Premium comfort design
The high-quality ultra-light mesh hammock under the soft silicone headband smartly distributes the headset's weight, so it'll stay comfortable all night long. The durable sliding arm means you'll be able to find and keep your perfect ergonomic fit. Our memory foam ear cushions are designed for maximum comfort for long sessions.

Replaceable components
Quickly and easily replace not just the microphone and the cable, but the leatherette ear cushions, mesh hammock and ear cups too so that your headset will always look as good as new. Not only do replaceable parts* keep your JBL Quantum 850 headset working, they also make your headset more sustainable.
(*spare parts sold separately)

Up to 30 hours of playtime
The JBL Quantum 850 Wireless battery allows for up to 30 hours of playtime. And when it's flat, give it a 10-minute charge to gain 2 extra hours of playtime.

Multi-platform compatibility
Windows, Mac, iPhone, iPad, Android, PlayStation, Nintendo Switch—no problem. The JBL Quantum 850 Wireless gaming headset works with them all.

Zoom certification
Your JBL Quantum 850 headset meets all the technical and sound qualifications for Zoom certification. So you can even use it for work calls.

Sustainability
JBL is committed to making more sustainable products. The JBL Quantum 850 Wireless gaming headset is packaged in FSC-certified paper packaging printed with soy ink. The plastic we use is partly recycled, and the headset's ear cushions, microphone, hammock, and ear cups can be replaced by the user, which reduces waste.

Technical Specifications

General Specifications
- Maximum operation temperature: 40 °C

Audio Specifications
- Frequency response: 20 Hz - 40 kHz (USB Audio)
- Microphone frequency response: 100 Hz - 8 kHz
- Max input power: 30 mW
- Sensitivity: 100 dB SPL@1 kHz
- Maximum SPL: 95 dB
- Microphone sensitivity: -44 dBV / Pa@1 kHz
- Impedance: 32 ohm
- Microphone pickup pattern: Cardioid

Control and Connection Specifications
- Bluetooth transmitted power: < 13 dBm (EIRP)
- 2.4G transmitted power: < 14 dBm (EIRP)
- Bluetooth transmitted modulation: GFSK, π/4-DQPSK
- Bluetooth frequency: 2.4 GHz - 2.4835 GHz
- Bluetooth profile version: GFSK, π/4-DQPSK,8DPSK
- Bluetooth version: V5.3

Dimension Specifications
- Driver size: 50 mm / 1.97" Dynamic Driver
- Weight: 364.2 g (included talk mic 14.5 g and battery 16.4 g)
- Cable length: 1.5 m
- Earcup length: 89.88 mm
- Earcup width: 59.05 mm
- Earcup height: 106.18 mm

Battery Specifications
- Battery type: Lithium-ion battery (3.7 V / 700 mAh)
- Power supply: 5V ⎓ 1A
- Charging time: < 3 hrs from empty
- Music play time with only 2.4GHz: Up to 25 hrs
- Talk time with only 2.4GHz on and ANC: Up to 18 hrs
- Music play time with only BT on: Up to 30 hrs
- Talk time with only BT on and ANC: Up to 20 hrs
- Music play time with BT+2.4GHz on: Up to 22 hrs BT +2.4GHz on and ANC: Up to 17 hrs

What's in the Box

1 x Quantum 850
1 x detachable boom microphone
1 x calibration microphone
1 x windshield foam for boom microphone
1 x replaceable battery
1 x USB wireless dongle
1 x USB-C cable
1 x USB-C to AUX cable
1 x USB-C to USB-A converter
1 x carrying pouch
1 x QSG | Warranty card | Warning card

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