SMART BOXING BAG SENSOR KIT WM-BB

Turn Any Punching Bag into a Connected Trainer

SMART TRAINING • FITNESS • FAT BURNING • STRESS RELIEF

■ Product Overview

The WaveMill Smart Boxing Bag Sensor Kit turns an ordinary punching bag into a connected training system for boxing enthusiasts, fitness users, families, gyms, and boxing clubs. It communicates with the HitRise mobile app via Bluetooth to track punch count, impact force, and training rhythm in real time, while estimating calories burned and equivalent fat burned.

Up to 60Days
Standby Time

Approx. 8 Hours
Continuous Training

USB TYPE-C 5V
Charging Input

Bluetooth Connectivity
Connects to the Mobile App

■ Product Design

A single ultra-compact model fits every supported bag type, with a choice of self-adhesive tape and hook-and-loop fasteners or an elastic strap.



WM-BB
Sensor Body — Top View

Size:46*39mm
Thickness: 25 mm
Key benefit: Low profile; stays clear of the striking surface
Size:46 × 39 × 25 mm
Inner Packing Size: 100 × 55 × 40 mm
Carton Size: 52 × 24 × 20 cm
Net / Gross Weight: 22 g / 15 kg
Packaging: 100
MOQ(sets) ： 500



WM-BB
On Sandbag

Charging:USB Type-C port, 5V input
Battery: Rechargeable battery
Key benefit: Tool-free installation and convenient recharging

■ Sensor Installation Methods

A: Self-Adhesive Tape and Hook-and-Loop Fasteners

Attach the sensor using self-adhesive tape and hook-and-loop fasteners at the selected mounting position, away from the striking surface.

B: Elastic Strap

Secure the sensor with an elastic strap around the bag, keeping it firmly in place and away from the striking surface.

■ Compatible Equipment & Mounting Positions

Free-Standing Boxing Bags

Attach the sensor to the flat top surface of the bag. Suited to home and gym free-standing units with a reflex or column-style body.

Hanging Boxing Bags

Attach the sensor to the bottom end cap of the bag, where it stays protected from direct strikes while still registering every impact.

Kids' Inflatable Tumbler Bags

Attach the sensor to the top dome of the inflatable tumbler, turning a children's toy into a scored, app-guided activity.

■ Key Features

Accurate Punch Counting

High-sensitivity sensors detect punch count and impact force with stable, reliable accuracy.

Real-Time Performance Metrics

Real-time punch count, BPM, calories, fat-burn estimate, impact force, and combo detection.

Long Rechargeable Battery Life

USB Type-C 5V charging; up to 60 days of standby time and approximately 8 hours of continuous training per full charge.

Ultra-Compact, Tool-Free Installation

At 46 × 39 × 25 mm, the sensor adds little bulk. Choose A: self-adhesive tape and hook-and-loop fasteners; or B: an elastic strap. No drilling or modification to the bag is required.

Rhythm-Based Training

Train in Free or Beat-Sync mode with Perfect / Good / Miss timing scores, rhythm sound effects, and background music.

■ HitRise App Features

HitRise (Android) and Vimai HitRise (iOS) connect to the sensor via Bluetooth for a complete, data-driven workout experience.

Live Training Dashboard
Monitor round time, total punches, BPM, calories, fat burned, impact force, and combo detection as you train.

Flexible Training Settings
Customize workout time, rest intervals, number of rounds, Free / Beat-Sync mode, and tempo from 40 to 140 BPM.

Detailed Round Reports
Review workout time, cumulative punch count, calories, fat burned, and maximum and average impact force for every round.

Achievements & Leaderboards
Rank badges and multi-metric leaderboards for time, punch count, force, calories, and fat burned help keep users motivated.

Audio & Multi-Language Support
Rhythm sounds and music; interfaces in Chinese, English, French, and Thai.

■ Technical Specifications

No.	Specification	Details
1	Product Model	WM-BB smart boxing bag sensor kit
2	Size	46 × 39 mm; thickness: 25 mm
3	Mounting Method	A: Self-adhesive tape and hook-and-loop fasteners B: Elastic strap
4	Mounting Position	Top of the bag; bottom end cap for hanging bags
5	Compatible Equipment	Free-standing boxing bags, hanging boxing bags, and children's inflatable tumbler boxing bags
6	Power & Charging	Rechargeable battery; USB Type-C port, 5V charging
7	Battery Life	Up to 60 days standby; approximately 8 hours of continuous training per full charge
8	Wireless Connection	Bluetooth Low Energy (BLE) connection to the mobile app
9	Companion App	HitRise (Android), Vimai HitRise (iOS): live training, round reports, achievements, leaderboards, and user profile
10	Sensing Method	High-sensitivity sensor detection of punch count and impact force
11	Tracked Metrics	Punch count, BPM, impact force (max / average), combo detection, calories, and estimated fat burned

■ Certification Information（sensor）

United States: FCC Part 15 — complete product.

United States: UL 4200A

ANSI/UL 4200A-2023 testing; 16 CFR Part 1263 compliance evaluation; battery accessibility and use/abuse testing; product, packaging and user manual warning-label review; test report supporting the General Certificate of Compliance (GCC).

Europe: CE + RED (EMC + LVD + RF) + RoHS — complete product.

■ Application Scenarios

Home Fitness
Track daily performance during at-home boxing workouts

Family & Kids' Play
Turn an inflatable tumbler bag into a scored, app-guided game

Boxing Clubs
Measure member activity and motivate participation with leaderboards

Fitness Centers
Add engaging competitions to group classes and training sessions

Events & Exhibitions
Create interactive challenges with live on-site rankings

Retail & Bundled Sales
Ship as an add-on kit or factory-fitted upgrade for bag product lines

■ Contact Us

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Specifications are based on the current production model and are subject to change without notice.