User Manual

L-Ring

The L-Ring is a revolutionary smart wearable device introduced in 2023 by Shenzhen Lanroot Technology Co., Ltd. Designed to resemble a ring, it is worn on the index finger and employs Bluetooth connectivity for controlling various devices through spatial gestures and touch inputs. This innovative ring is compatible with a wide range of smart display systems, including computers, smart TVs, projectors, tablets, and mobile phones.

Weighing a mere 3.9g and accompanied by a 26g charging case, the L-Ring is highly portable. It features a 21mm inner diameter and a 28mm outer diameter, making it suitable for daily wear. The device boasts an IP67 rating for dust and water resistance and offers a 12-meter effective Bluetooth control range. It incorporates two touch-sensitive areas: a start-stop button and a gesture control button. The touch chip embedded in the ring enables users to effortlessly manage operations like starting, pausing, and switching modes.

A standout feature of the L-Ring is its dual-mode operation, allowing users to switch between touch and gesture controls seamlessly. It integrates an InvenSense ICM40607 3-axis gyroscope and a 3-axis accelerometer for precise gesture recognition and cursor movement control.

The ring's battery life extends up to 18 hours, and it can last up to 78 hours with the charging case. The device recharges automatically when placed in the case, which supports a Type-C charging interface and doubles as a storage unit.

The L-Ring has secured 15 patents, encompassing 10 invention patents, 4 utility patents, and 1 design patent. As the first AI-powered ring in the world, it continuously receives firmware updates to enhance the user experience. Looking ahead, Shenzhen Lanroot Technology plans to introduce a toy version and a PRO version featuring customizable gestures. Users will be able to personalize gesture functions via an app, selecting their preferred interactive gestures and settings.

FCC Warning

15.19 Labeling requirements.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

15.21 Information to user.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.105 Information to the user.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

FCC RF Radiation Exposure Statement:

This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 5mm between the radiator and your body.