

ARMOR

User Manual for your Isolation System



E-DEN

Downlad the app
and pair your device

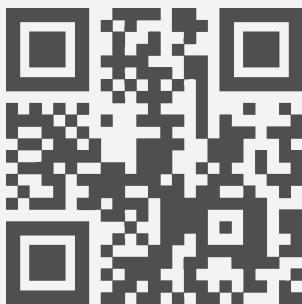


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Introduction

ARMOR is an advanced interactive interface designed to redefine spatial boundaries through integrated technology.

Intended Use

ARMOR uses four (4) integrated distance sensors to detect the presence of other people accurately and safely.

It is intended for use in environments requiring controlled acoustic and visual isolation.

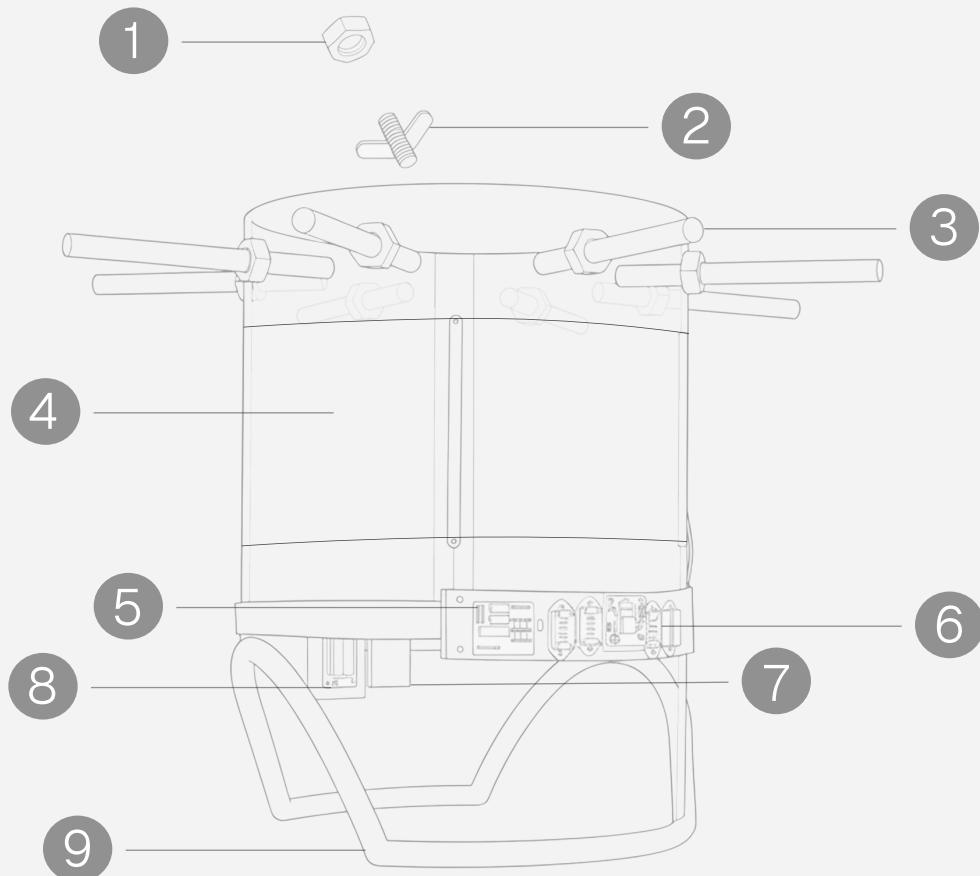
Safety Informations

The user is responsible for ensuring the structural integrity of the assembly before each session. Ensure that the helmet is correctly positioned and that the isolation distance is properly calibrated to prevent accidental slippage or instability. Do not use the device while connected to a power source if the charging cable is damaged or frayed. Only use the provided charging equipment to prevent the risk of short-circuiting or battery overheating. Furthermore, do not submerge the device in water or expose it to extreme temperatures, as this may lead to electrical failure or permanent damage to the internal components. Failure to follow these safety protocols may result in equipment damage or personal injury.

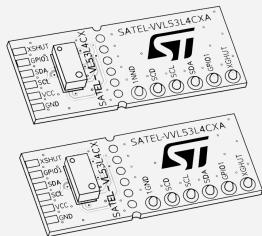
Health-related Informations

This device is designed for controlled isolation and focus; however, prolonged use may cause physical fatigue or discomfort. If you experience dizziness, headaches, neck strain, or any form of claustrophobia while wearing the helmet, remove the device immediately and consult a medical professional. Users with pre-existing neck or spinal conditions should seek medical advice before using the adjustable isolation system. Additionally, ensure the isolation distance is set to allow for adequate natural ventilation and comfort, as excessive isolation in high-temperature environments may lead to heat-related stress.

Parts & Assembling

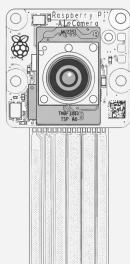


- | | | |
|---------------------|---------------------------|-------------------------|
| 1. Hex Nut (9) | 4. Switchable Film | 7. Wireless Speaker (2) |
| 2. Wing Nut (9) | 5. Raspberry Pi AI Camera | 8. Raspberry Pi Board |
| 3. Threaded Rod (9) | 6. Distance Sensors (4) | 9. Rubber Gasket |



Sensors VL54L4CX

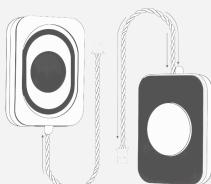
Precise distance measurement with real-time environmental detection.



Raspberry Pi AI Camera

with IMX500

Real-time recognition
and tracking of environmental
changes and user gestures.



Speaker CQRLB001

Crystal-clear audio with
integrated noise interference
reduction.

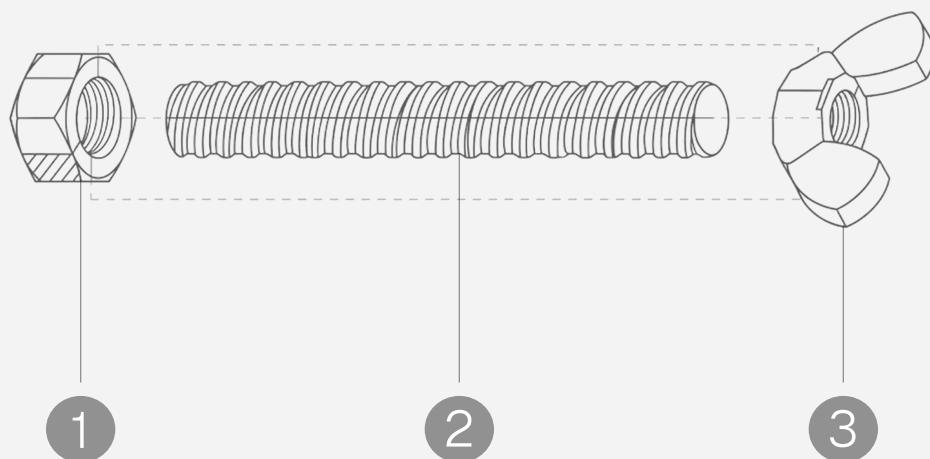


Switchable Film

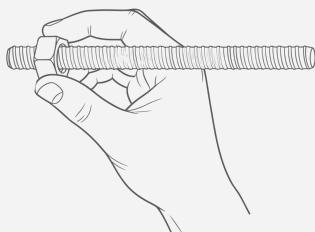
Advanced electrochromic
"Smart Film" with variable
opacity levels.

Choose your Distance

This step allows you to manually calibrate the desired isolation distance. Adjust the position of the nuts along the threaded rod to customize the structural gap to reach your preferred level of isolation.

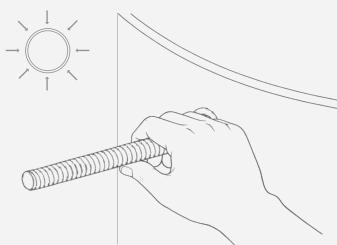


Note: If the length of the Threaded Rod is not enough for you, get your preferred size on www.eden.org

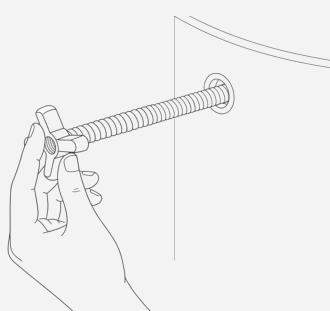
1

Step 1: Secure the Hex Nut at the base of the Threaded Rod to establish your starting reference point.

x 9

2

Step 2: Place the Threaded Rod into the hole on the helmet – the Hex Nut must be on the inside of the helmet.

3

Step 3: Secure the Rod by tightening the Wing Nut from the outside until it is flush against the surface.

x 9

Understanding Threaded Rod Customization

The ARMOR system is designed to be modular. The length of the Threaded Rods directly determines your "Buffer Zone"—the physical distance between the helmet shell and the external environment. By selecting different rod lengths, you can calibrate your personal space according to your specific isolation needs.

Short (50mm): Best for compact storage and indoor use while maintaining the structural integrity of the sensor array.

Standard (100mm): Ideal for daily urban navigation, providing a balanced profile with effective personal space protection.

Extended (200mm+): Recommended for high-density environments where a larger physical perimeter is required to maintain total environmental decoupling.

Note: All rods feature the same M-standard threading to ensure universal compatibility with the internal Wing Nuts.

Configuring the Array

To maintain the center of gravity and sensor accuracy, it is essential to follow specific configuration patterns when installing your custom rods. This is why we suggest to follow our Configuration Rules.

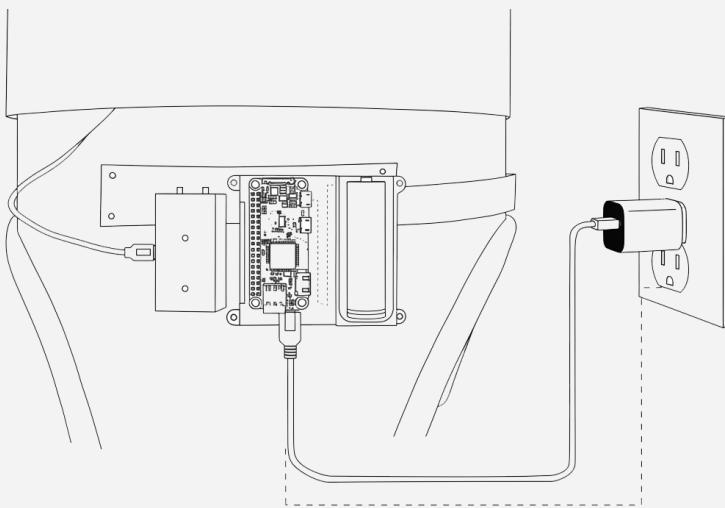
Uniformity: For the most stable isolation, use rods of the same length across all 9 anchor points.

Safety Sphere: Longer rods increase the reach of your sensors, allowing the ARMOR App to detect obstacles earlier.

Manual Calibration: After changing rod lengths, open the ARMOR App and update the "Rod Length" setting to ensure distance statistics remain accurate.

How to Turn On/Off

To turn the device ON or OFF, press and hold the dedicated power button located on the assembly. A single firm press will initiate the system, while holding the button for two seconds will safely shut it down. The device is equipped with an internal rechargeable battery; please use the provided charging cable to maintain power. For optimal battery longevity, avoid leaving the device completely discharged for extended periods and ensure the charging port is free of dust or debris before connection.



Warning and Maintenance

To ensure the longevity of your device and your personal safety, please adhere to the following guidelines. Regularly inspect the entire Adjustable Isolation Assembly to confirm that all Threaded Rods, Hex Nuts, and Wing Nuts are securely fastened, as repeated use may cause components to loosen. All adjustments must be performed manually; do not use power tools or specialized wrenches, as excessive torque may permanently damage the helmet shell or strip the internal threads. Always operate the assembly on a stable, level surface to prevent tilting or structural instability. Keep all small hardware components, such as nuts and bolts, out of reach of children to avoid choking hazards.

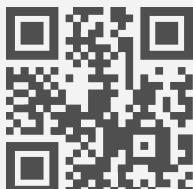
Maintain the integrity of the materials by cleaning the surfaces with a soft, dry microfiber cloth. Avoid the use of abrasive chemicals, solvents, or water, which may degrade the finish or cause oxidation of the metallic parts. Periodically check the mounting holes for signs of wear; if any structural deformation is detected, discontinue use immediately. If the adjustment mechanism becomes stiff, a minimal application of dry silicone lubricant to the Threaded Rod is recommended.

When not in operation, store the helmet in a cool, dry environment away from direct sunlight. Use the provided statistics to monitor your progress and maintain optimal isolation levels, performing a full recalibration of the system every 30 days to ensure peak performance.

Download & Pairing

Ready to improve?

The ARMOR App is not just a companion tool; it is the central intelligence unit of your helmet. By pairing the app with the internal hardware, you unlock the full potential of your device's spatial awareness. Through real-time data processing, the app transforms raw sensor inputs into actionable insights, allowing you to visualize your safety perimeter and actively manage your decoupling from the environment. Whether you are navigating urban density using the integrated heatmap or fine-tuning your isolation based on historical statistics, the ARMOR App ensures your protective experience is optimized, monitored, and consistently effective.



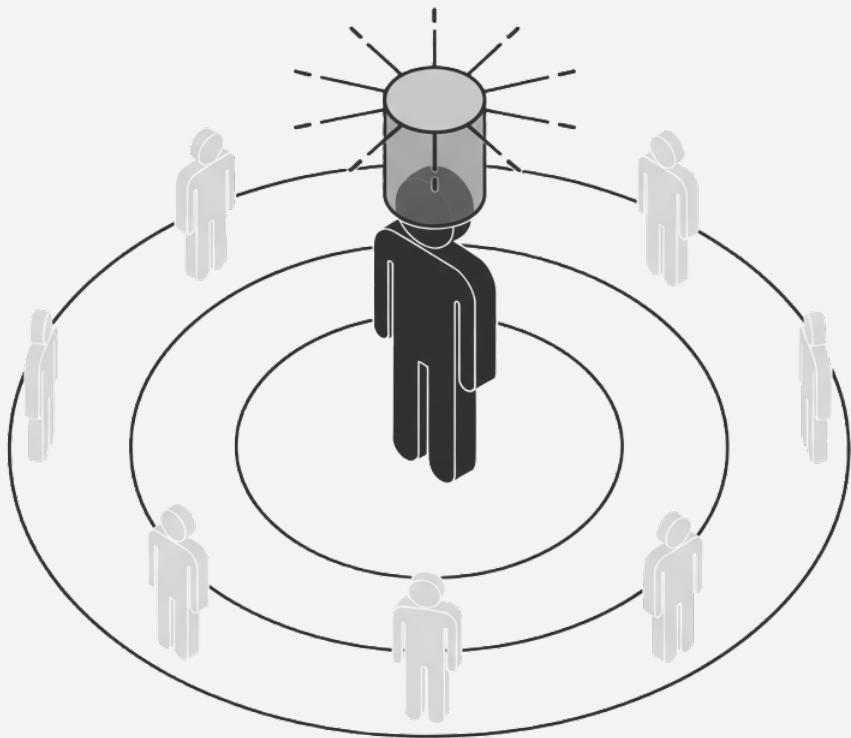
Start your download here



Available for iOS and Android:
armor.link/get-app

You are ready now.

Start wearing your ARMOR to begin your training.



ARMOR

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Ltd Eden 科技有限公司

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Shenzhen Guangdong, China

www.eden.org

Designed by Eden in Shenzhen

Assembled in China

Patented Product



RoHS



