

□ Wireless Qi TRAY Manual □

* Product name : Dedicated charger for ALMA

* Model name : ACT

* Size : 500*242.3*61.2mm

* Weight : About 1.1Kg

* Colour : Black/White

* Material : ABS

* Power rating : 12 Vdc, 15 A

* RF feature :

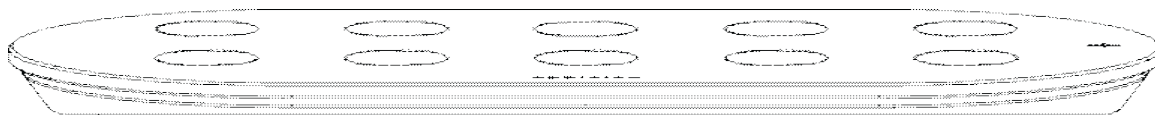
TX : MAX 7.5W

RX : MAX 7.5W

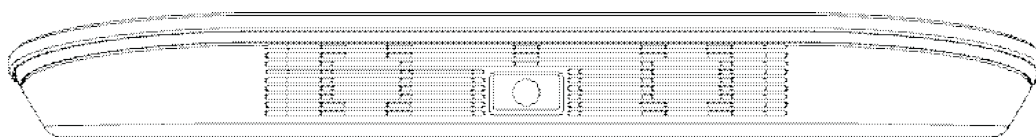
* Manufacturer : WARP Solution Inc.

* Factory : HNSystem Co., Ltd

* Product :

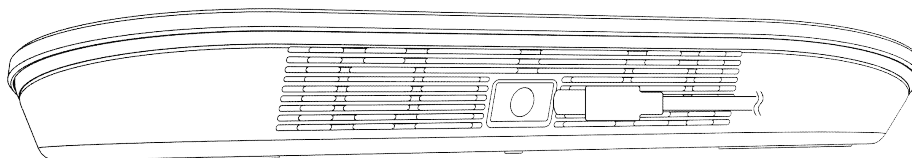


<Top View>



<Bottom View>

How to use



After connecting the adapter, the mood light is turned on. (Operating mode)

- Remove the adapter when not in use.

□ Wireless Qi TRAY Manual □

FCC Regulatory notices

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.

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.

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

This device should be installed and operated with minimum 20 cm between the radiator and your body.

ISED Regulatory notices

This device contains licence-exempt transmitter(s)/receiver that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs / récepteurs exempts de licence qui sont conformes aux RSS exempts de licence d'Innovation, Sciences et Développement économique Canada. Son fonctionnement est soumis aux deux conditions suivantes:

- (1) Cet appareil ne doit pas provoquer d'interférences.
- (2) Cet appareil doit accepter toute interférence, y compris les interférences qui peuvent provoquer un fonctionnement indésirable de l'appareil.

This equipment should be installed and operated with minimum 20 cm between the radiator and your body.

Cet appareil doit être installé et utilisé avec un minimum de 20 cm entre le radiateur et votre corps.



Wireless Charging Solution

User manual



- ALMA (Wireless Charger)
- ACT (Dedicated charger for ALMA)

Please read this manual for proper operation and keep it for future reference.



Wireless Charging Solution

User manual

This document is a guide for users of the **Wireless charger** (integrated portable power bank, model: ALMA) and Wireless **Dedicated charger for ALMA** (ACT). Always refer to the actual enclosed items and the product engravings and label markings as your primary reference.

Please read this manual for proper operation and keep it for future reference.



Wireless Charging Solution

User manual

1. Safety and Regulatory Summary (Must Read) **WARNING**

- Do not disassemble or modify the product. Risk of fire, electric shock, or injury.
- Ensure metal cases/magnets/cards (transportation cards, credit cards, RFID cards) do not overlap the coil area. Overheating or foreign objects (FOD) may cause charging to stop and damage to occur.
- Use on a non-flammable, flat surface. Do not use in areas with restricted ventilation, such as bedding, sofas, or carpets.
- Keep out of reach of infants and young children.
- Keep at least 15 cm away from medical devices (e.g., pacemakers). **CAUTION**
- Avoid high temperatures ($>35^{\circ}\text{C}$), low temperatures ($<0^{\circ}\text{C}$), and high humidity environments. Do not use in enclosed spaces or expose to direct sunlight.
- Do not touch the cable/adaptor with wet hands. Use only after moisture has been removed.
- When shipping by air, follow airline guidelines and check checked baggage regulations.

Cleaning/Storage

- After disconnecting the power, wipe with a soft, dry cloth. Use only a small amount of solvent/alcohol.
- Store in a cool, dry place when not in use for extended periods.

2. Components

- Wireless Charger (ACD, Battery Integrated), Model: ALMA
- Dedicated charger for ALMA (Charging Tray), Model: ACT
- USB-C Cable (Refer to box label for included specifications)
- Quick Start Guide/Warranty
- The charging tray and wireless charging disk are dedicated products; use of the dedicated tray is recommended when charging the wireless disk.

3. Product Overview

3.1 Wireless Charger [Model name : ALMA]

- **Size/Weight:** $69 \times 79 \times 10$ mm / Approx. 88 g
- **Color:** Black / White, etc.
- **Material:** ABS / AL (Aluminum)
- **Battery:** 3.85V, 4000 mAh (built-in)
- **TX (Wireless Output to Phone):** Up to 7.5 W

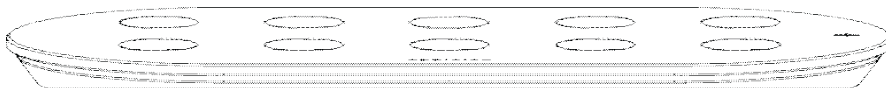
Please read this manual for proper operation and keep it for future reference.

- **RX (Wireless Input from Tray, etc.):** Max 7.5 W
- **Coil Position:** Top of Main Unit (Not Center) – See Rear Silk Printing
- **Temperature Protection:** STOP Mode/Sleep Mode

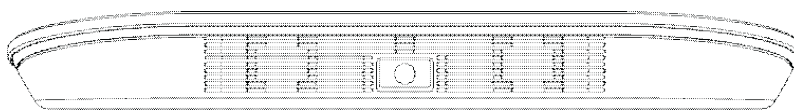


3.2 Dedicated charger for ALMA [Model name : ACT]

- **Size/Weight:** 500 × 242.3 × 61.2 mm / Approx. 1.1 kg
- **Color:** Black / White
- **Material:** ABS
- **TX (Wireless Output):** 7.5 W/Coil unit to 7.5 W
- **Power Rating :** 112 Vdc, 15 A
- Multi-Coil Tray (varies by model)– Use on a flat, ventilated surface
- Power input/LED status indicator.



<Top View>



<Bottom View>

Please read this manual for proper operation and keep it for future reference.



Wireless Charging Solution

User manual

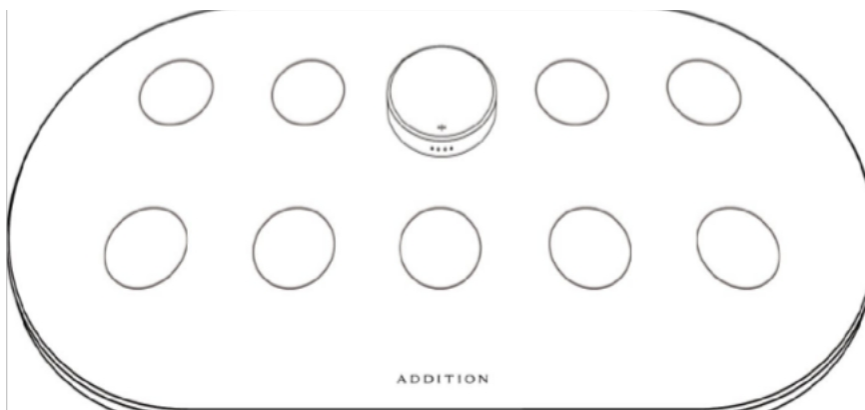
4. Quick Start

A. Tray Installation

1. Connect the included (or recommended) adapter to the tray's power input.
2. Place the tray on a flat, well-ventilated surface.

B. Charging the Disk (Tray → Disk)

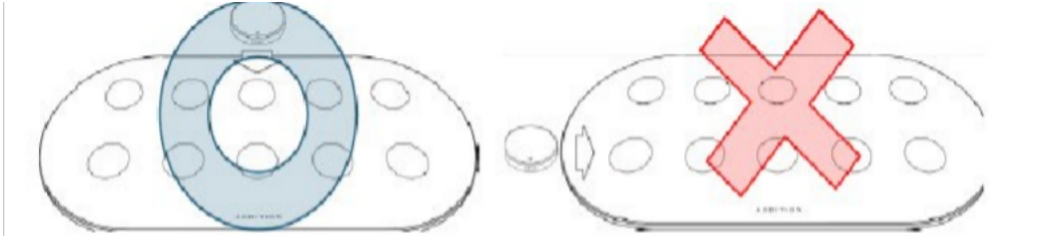
1. Place the coil at the top of the disk's rear so that it overlaps the charging area on the tray.
2. Within 7–8 seconds, **the** disk's **LEDs** 1→4 will light up sequentially to indicate status recognition.
3. The remaining charge (SoC) during charging is indicated by the LED pattern.
4. This product is a fixed-direction docking device; the charging surface of the tray must face upward.
5. Place the charging tray with the charging surface facing up and the disk on top of the tray.



Please read this manual for proper operation and keep it for future reference.

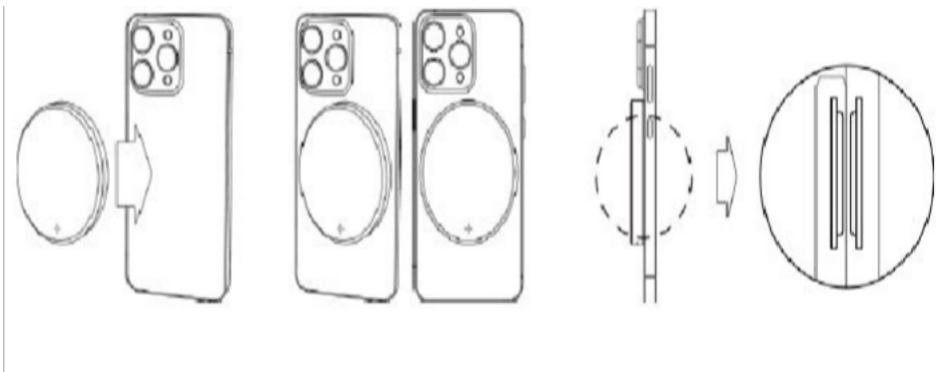
Wireless Charging Solution

User manual



C. Phone Charging (Disk → Phone)

1. Attach the disk to the phone's **magnetic** area to automatically start wireless charging.
2. Phones without magnets can also charge, but charging will be interrupted if **the phone coil and disk coil** are not properly aligned.
3. Charging will proceed after status recognition within 2–3 seconds after attachment.



Note: Some MagSafe-compliant chargers may not be compatible with ALMA disk charging due to differences in **magnet polarity/placement**.

5. LED/Status Indicator

- **Charge (Remaining) Indicator – Disk's Own LED**

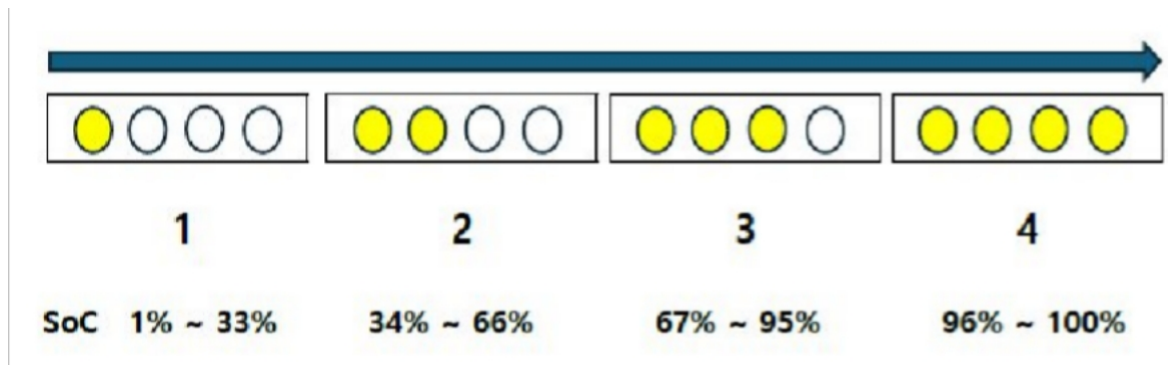
Please read this manual for proper operation and keep it for future reference.



Wireless Charging Solution

User manual

- SoC 1–33%
 - SoC 34–66%
 - SoC 67–95%
 - SoC 96–100%
- **Low Charge Alert:** When the disk's charge depletes while charging your phone, **LED 1** will flash to alert you, then the disk will automatically shut down.
 - **Status Recognition Delay:** A status verification period of 2–8 seconds may be required immediately after placing the tray or phone on the device.



6. Temperature Protection Operation

- **STOP Mode (High Temperature Suppression):** All operations (including charging) are temporarily halted when the internal disk temperature **exceeds 100°C**. Automatic recovery occurs when the temperature drops below **70°C**.
- **Sleep Mode (Overheating Protection):** Wireless charging will stop and the disk will enter sleep mode when its internal temperature **exceeds 120°C**. At this time, your phone may also enter high-temperature protection mode. After the temperature drops, **detach and reattach the disk** to resume charging.

Recommendation: Heat generation increases during prolonged continuous charging in thick cases (including metal or magnetic cases) or high-temperature environments. Ensure adequate ventilation and remove unnecessary cases/accessories.

7. Proper Placement and Alignment Guide

- The disk coil is located at the top of the main unit. **Align** the phone coil **with the top section and** attach it.
- When **sliding** the disk across the tray, it may become misaligned during the process of attaching to the magnet. In such cases, reposition it by **lifting it up and placing it down precisely**.
- Metal plates/cards/anti-fingerprint rings/magnetic rings may affect charging performance.

Please read this manual for proper operation and keep it for future reference.



Wireless Charging Solution

User manual

8. Troubleshooting

Symptom: Charging does not start

- Check **coil alignment** between disk and tray (or phone) → Realign by matching the top edges of the coils
- Remove foreign objects (metal, magnets, cards) from the disk/tray surface
- Possible adapter output shortage → Use a recommended rated adapter
- Check if disk overheating protection is active (Section 6) → Retry

after temperature drops **Symptom: Frequent charging**

interruptions/slow charging

- Remove thick cases/metal accessories
- Lower ambient temperature and ensure ventilation
- Check disk battery level (LED 1 flashing indicates low

battery) **Symptom: Disk not charging in tray**

- Check if using incompatible chargers like MagSafe
- Check tray power/cable for defects; cross-test with different ports/adapters

9. Product Specifications (ACD)

Item	Specification
Product Name	Wireless Charging Disk
Model	ALMA
Dimensions/Weight	69 × 79 × 10 mm / Approx. 88 g
Color	Black / White, etc.
Material	ABS / AL
Battery	3.85V, 4000 mAh
Wireless Output (TX)	Maximum 7.5 W
Wireless Input (RX)	Maximum 7.5 W
Coil Position	Top of main unit (not center)

Please read this manual for proper operation and keep it for future reference.



Wireless Charging Solution

User manual

Temperature Protection STOP Operation stops above 100°C → Resumes below 70°C/ Sleep mode activates above 120°C

Tray specifications may vary by model; refer to separate labels/spec sheets.

10. Optimal Usage Tips

- Use the **rated adapter** and included cable whenever possible.
- Optimal coil alignment improves charging efficiency and heat dissipation.
- When long-term charging is not required, remove the phone from the tray/disk to manage battery life.
- The wireless charging tray and wireless charging disc are proprietary products; therefore, we do not recommend using third-party wireless chargers in combination with the wireless charging disc for charging.

11. Warranty and Customer Support

- The warranty period and coverage follow the policies of the country/retailer.
- Please keep your receipt (purchase date) and product serial number.
- Customer Support: (Company Name/Website/Email/Phone)
- The company does not guarantee issues arising from using third-party wireless chargers to charge the portable disk.

12. Certification/Regulation/Labeling Information / Warning

- KC / Radio Certification / Battery safety markings can be found on the product housing or enclosed label.
- Comply with WEEE/RoHS/recycling marks and battery separation disposal instructions.
- Avoid prolonged direct contact with any part of the wireless charging tray.

13. Product Identification and Documentation History

- Model Name: ALMA (Wireless Charging Disc), ACT (Dedicated charger for ALMA)
- Manufacturer/Country of Manufacture/Manufacturing Date: Refer to housing and silk label
- Document Version: V1.0 (Draft)

Please read this manual for proper operation and keep it for future reference.



Wireless Charging Solution

User manual

- Issue Date: 2025-08-11

Appendix A. LED Pattern Quick Reference

- LEDs 1–4 light up sequentially: Status recognition in progress (2–8 seconds)
- LEDs 1–4 lit steadily: Remaining capacity stage display (1–33/34–66/67–95/96–100%)
- LED 1 flashing: Low disk capacity, shutting

down soon Appendix B. Terminology

- **TX/RX:** Wireless output/input
- **STOP/Sleep Mode:** Protective operation under temperature conditions
- **Coil alignment:** The act of positioning the transmit/receive coils correctly

Please read this manual for proper operation and keep it for future reference.