AsReader®

ASR-M30S

User's Manual

Product Type: DOCK-Type RFID reader

Compatible with iOS and Android devices

1st Edition

November 11, 2025

Table of Contents

About ASR-M30S

The ASR-M30S is a SLED-Type / DOCK-Type UHF RFID reader.

To use the ASR-M30S in HID mode (Human Interface Device, like a keyboard emulator), please see Section 4 of this manual.

To use the ASR-M30S in serial mode / CDC mode / SDK mode, please download an application that has our SDK (Software Development Kit) integrated into it.

For integrating our SDK, please refer to our SDK reference guide and sample code, which are available on our product website

■Revision history

Version	Chabges	Date
1	Initial version	September 24, 2025

Note: The contents of this document are subject to change without notice.

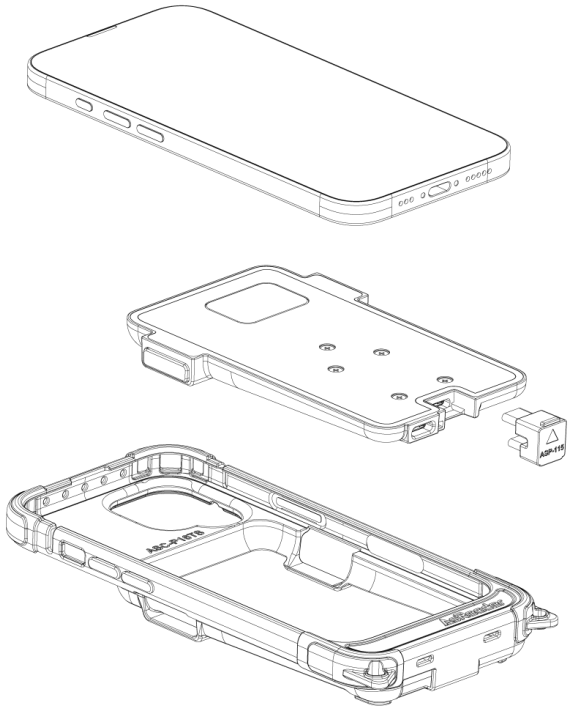
Safety Instructions

⚠ Warnings
Please do NOT disassemble, modify, or repair the ASR-M30S yourself.
Please stop using the ASR-M30S if you notice anything unusual during operation such as smoke, noise, or an abnormal odor.
Please do NOT subject the ASR-M30S to strong impacts by dropping or throwing it. If the body of the ASR-M30S is damaged, please do NOT touch the damaged part or the parts inside.
The ASR-M30S is a RFID interrogator with 500mW output power, which may affect medical devices in certain circumstances. When operating the ASR-M30S, please make sure to keep it more than 22cm away from implantable medical devices and users of implantable medical devices.
Please contact the distributer before using the ASR-M30S abroad in order to confirm the compliance with radio laws and other regulations.

⚠ Cautions
Please comply with your local regulations when you discard the ASR-M30S.
Please stop using the ASR-M30S immediately and contact the distributor if you notice anything suspicious regarding it while in operation.
Continuous use of the ASR-M30S in rainy conditions can cause malfunctions of the ASR-M30S and the connected device. If the ASR-M30S gets wet, please wipe any water off its surface and ports immediately with a dry cloth.
The body of the ASR-M30S may become hot after continuous RFID scanning for a long time. Please consider countermeasures such as adjusting the scanning interval when encountering this temperature issue while using the ASR-M30S..

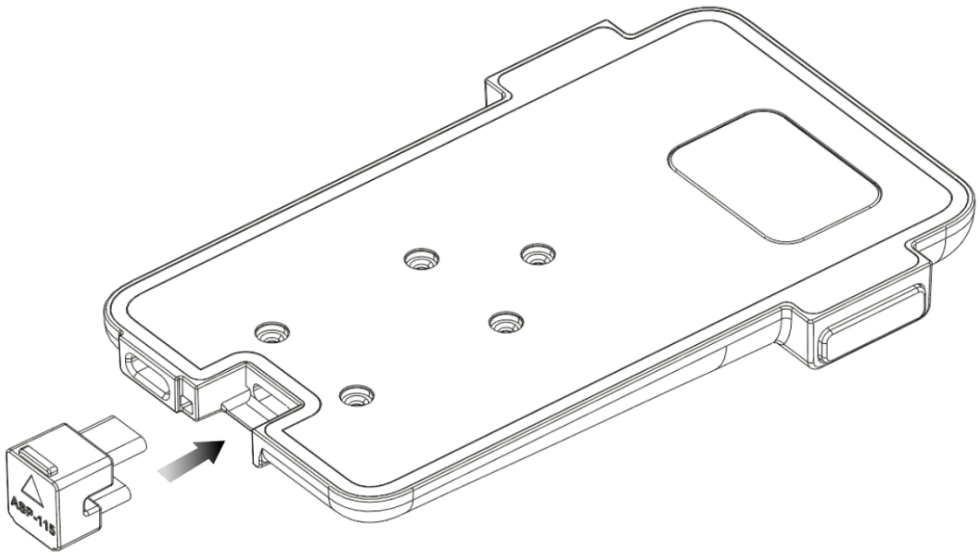
1 Preparation Before Use

Connect the ASR-M30S and your smartphone using a joint connector (sold separately) and fit them in the cover case (sold separately).

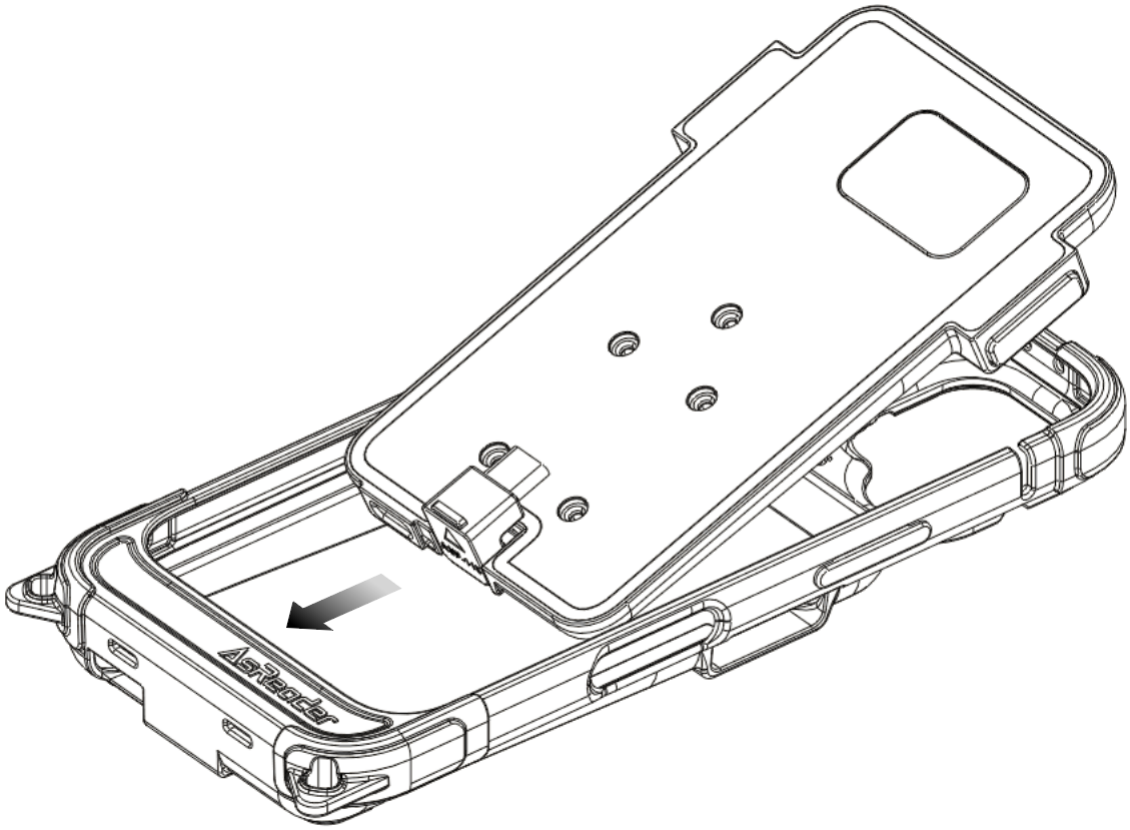


Installation

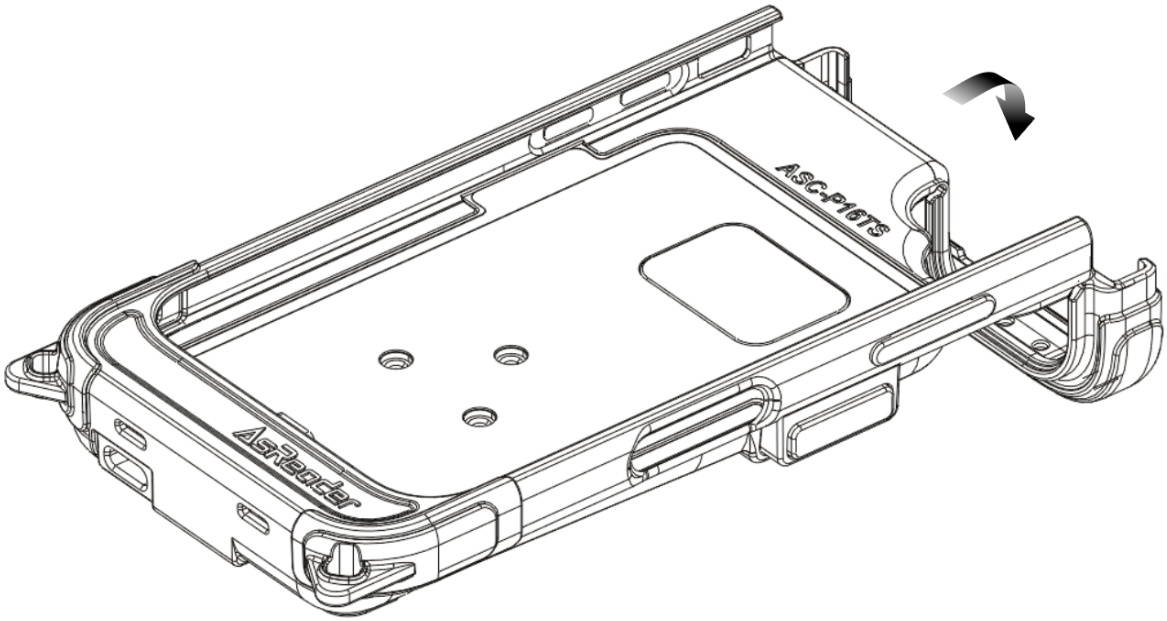
① Connect the ASR-M30S and your smartphone by plugging the joint connector into their USB Type-C ports.



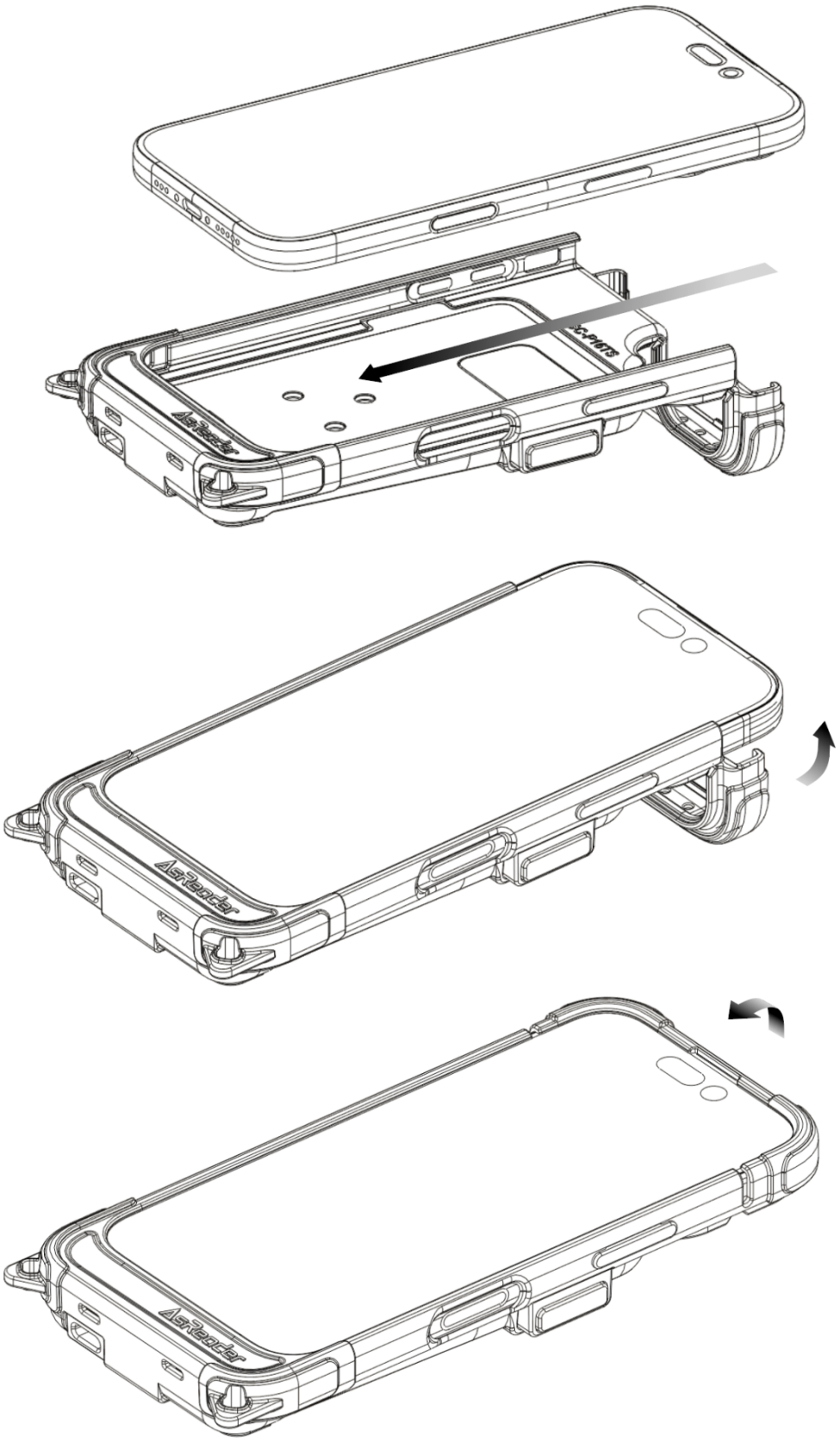
② Fit the ASR-M30S and the joint connector in the cover case.



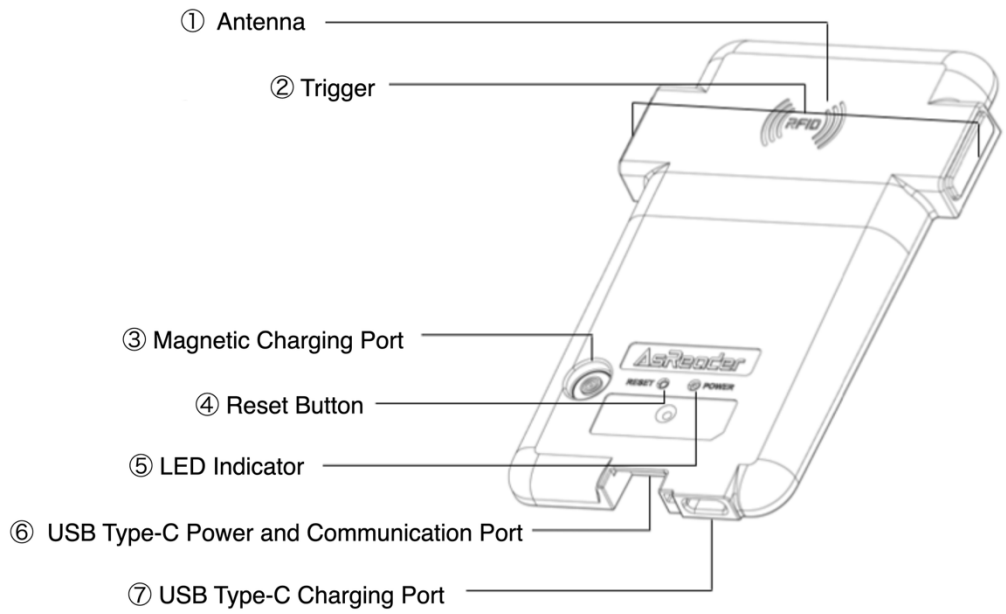
③ Bend the edge of the cover case near the camera opening.



③ Insert your smartphone in a parallel fashion from the top of the ASR-M30S.



2 Name of Each Part



3 Operation Guide

1 Antenna

Please aim the antenna toward the RFID tag you intend to read or write to. Please do not place objects that block radio waves near the antenna while operating.

2 Trigger

When pressed while the ASR-M30S is in HID mode or serial mode connected to an application, the trigger beings an inventory of RFID tags.

3 Magnetic Charging Port

This port can be used to pass-through a charge to a smartphone connected to the

ASR-M30S using a dedicated charging cable. Please note: the ASR-M30S does not have a battery, so this port is only for passing a charge through to the smartphone.

4 Reset Button

Is this a restart button or a reset button that resets settings configured on the device?

5 LED Indicator

State of ASR-M30S	State of LED Indicator
Connected to an Android device	Blue
Performing inventory	Blue, blinking
Connected to a charging cable	Red
Sleep mode	Off

◆ **Sleep Mode**

The ASR-M30S automatically enters sleep mode after What is the default set period of inactivity?. It exits
sleep mode and resumes normal operations when any of the triggers are pressed.

6 USB Type-C Power and Communication Port

This port is used to connect the ASR-M30S and a smartphone using a joint connector for communication and power supply.

7 USB Type-C Charging Port

This port can be used to pass-through a charge to a smartphone connected to the ASR-M30S. Please note: the ASR-M30S does not have a battery, so this port is only for passing a charge through to the smartphone.

8 Buzzer

A buzzer sounds upon the execution of Inventory, Read, Write, Lock, and Kill operations.

4 Operation Mode

The ASR-M30S features two operation modes: HID mode and Serial / CDC / SDK mode.

- **HID Mode**

  In HID mode, the ASR-M30S functions as a keyboard emulator, sending EPC data as text to applications such as Notepad, Excel, Google Sheets, Web Apps, and more.

- **Serial Mode / CDC Mode / SDK Mode (Default)**

  In Serial mode, the ASR-M30S communicates with an application that has integrated our SDK.

- **How to switch the operation mode**

  The operation mode can be switched from our Demo App or our SDK.

- **Scanning RFID tags in HID Mode**

  The LED indicator will blink blue while the trigger on the ASR-M30S is pressed down and it is reading tags in HID mode. The EPC data from the RFID tags is sent to the applications through the keyboard interface emulation.

5 Charging Attached iOS/Android Device

To charge your smartphone via the ASR-M30S, use a USB charger with an output of 5V/3A or lower, or a USB PD-compatible charger with an output voltage not exceeding 15V (a 30W charger is recommended).

- **Charging via the USB Type-C Charging Port**

  To charge via the USB Type-C charging port, connect the USB charger to the USB Type-C charging port using a USB Type-C cable.

- **Charging via the Magnetic Charging Port**

  To charge via the magnetic charging port, connect the USB charger to the magnetic charging port using a dedicated cable (sold separately).

The LED indicator will be red while passing through a charge to the connected smartphone.
If charging via the Magnetic Charging Port is slow, please clean the port with a soft cleaning cloth and retry the charge.

Appendix: Product Specifications

SKU		ASR-M30S
RFID	Standard	ISO/IEC 18000-63（formerly known as : ISO/IEC 18000-6C）/ EPCglobal Class 1 Gen 2 Impinj Gen2X
	Bandwidth	US: 902.75 ~ 927.25 MHz EU, UK: 865.7 ~ 867.5 MHz Japan: 916.8 ~ 923.4 MHz
	Output Power	US, EU, UK: Max 500mW (27dBm) Japan: Max 250mW (24dBm)
	Polarization	Circularly Polarized
	Function	Read, Write, Lock, Kill
Power Source		Provided from attached iOS / Android device
Charging		Attached iOS/Android device can be rapidly charged from the magnetic charging port and the USB Type-C port *1
Key Input		Trigger, Reset Button
Communication and Charging Interface		USB Type-C, Magnetic charging port
Exterior Specifications	Dimensions (W)x(D)x(H)	4.6 × 3 × 0.4 inches (116×75×10mm)
	Weight	75g (2.65oz) *2
	Material	PC-ABS
	Product Color	Black
	LED Indications	Red, Blue
Environmental Performance	Operation Environment	14°~113°F (-10℃~45℃) at 20~85 %RH
	Charging Environment	32°~103°F (0℃~35℃) at 10~90 %RH
	Storage Environment	-4°~140°F (-20℃~60℃) at 10~95 %RH
	IP Rating	IP54 Compliant
	Drop Test	5 feet (1.5m) to all six-sides and all four-corners, once each
Certifications / Standards		MFi, TELEC, FCC, ISED, CE, UKCA
Supported OS		iOS, Android

*1 Please use a USB charger with 5V3A or lower output or USB PD-compatible charger (not more than 15V / 30W recommended)
*2 Excluding option parts.

ASR-M30S
User's Manual

Asterisk Inc. (Japan HQ)
AsTech Osaka Building
2-2-1 Kikawa-nishi
Yodogawa-ku, Osaka-shi
Osaka 532-0013 JAPAN