



ASR-M30S

User's Manual

**Product Type: AsReader SLIM RFID Reader Compatible
with iOS/Android devices**

1st Edition
August 29, 2025

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About the ASR-M30S

The ASR-M30S of SLIM-Type device is a UHF RFID reader.

To use the ASR-M30S in serial mode (SDK mode), please download an application that has our SDK for iOS (or Android) integrated into it.

For integrating the SDK of ASR-M30S, please refer to our SDK reference guide and sample code, which are available on our product website.

Also, customers can try the ASR-M30S in serial mode using our demo application, "AsReader Scan" can be downloaded either from our product website or the Apple App Store, and "ASR-A3xD Demo" which can be downloaded either from our product website or the Google Play Store.

If you have any comments or questions about this manual, please contact us:

<https://asreader.com/contact/>

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★The contents of this manual are subject to change without prior notice. In addition, the images in this manual are all reference images and may be different from the actual product.

★ Warning: Please read this manual before use. Incorrect use of this device could result in property damage, serious personal injury, or even death. We will not be responsible for any loss caused by non-compliance with this manual.

★ We cannot take responsibility for any damage resulting from natural disasters like earthquakes, lightning, wind, floods, or fires beyond our control. Additionally, damages caused by third-party actions, accidents, intentional or negligent acts, misuse, or abuse are also not our responsibility.

★If damage is caused by dropping or smashing, as determined by our company, and the unit is repairable then a repair fee will be charged, even within the warranty period.

★We will take appropriate measures to ensure that our products do not infringe other patents, but we are not responsible for any patent infringement caused by any of the following (1) to (4).

(1) Used in combination with components, products, equipment, data processing systems, or software outside our company.

(2) Our products are used in unexpected ways.

(3) Modification of our products by any person or company other than our company.

(4) Use outside of the country where the products are purchased.

■Revision history

Version	Changes	Date
1	Initial version	August 29, 2025

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

Safety Instructions

 Warning
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.
Please do NOT heat or set fire to the ASR-M30S.
When constructing a system that may affect human life, such as the management of chemicals using the AsReader, please pay close attention to redundancy and safety design so that even if the data is incorrect, there is no possibility of it negatively affecting human life.
The AsReader is an RFID reader that uses UHF radio waves with an output power of 500 mW. Therefore, depending on the application and location of use, it may affect medical equipment. In order to minimize this effect, the following must be strictly observed during operation. The AsReader operators should keep the AsReader at least 22cm (9in) from any site where implantable medical devices are installed. People with implanted medical devices should not come within 22cm (9in) of the AsReader. When taking the AsReader overseas, please consult with us in advance, as it is necessary to comply with the laws and regulations of each country and region.
Changes or modifications to this unit not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.
This device complies with Industry Canada's licence-exempt RSSs Operation is subject to the following two conditions: (1) This device may not cause interference and (2) this device must accept any interference, including interference that may cause undesired operation of the device. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so

chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

This radio transmitter (identify the device by certification number, or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (identifier le dispositif par son numéro de certification ou son numéro de modèle s'il fait partie du matériel de catégorie I) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Caution

This product has been certified in accordance with the radio wave laws of each country. Since each country or region has different regulations regarding radio waves, it is necessary to comply with the respective regulations. Modification of this product is prohibited, and violations may result in penalties according to the regulations of each country or region.

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.

FCC Compliance Statement:

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.

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 Radiation Exposure Statement:

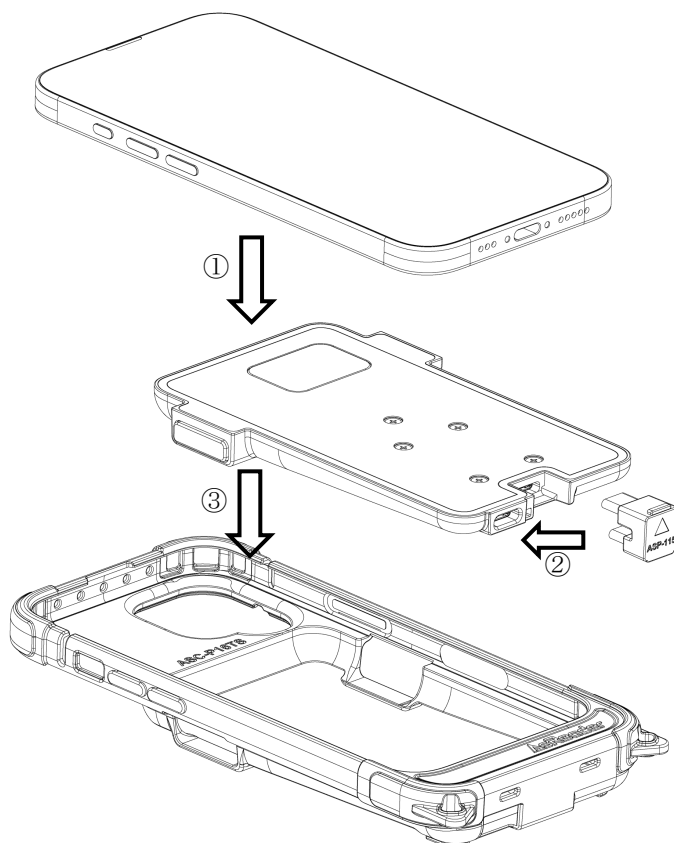
The device has been evaluated to meet general RF exposure requirement.

The device can be used in portable exposure condition without restriction.

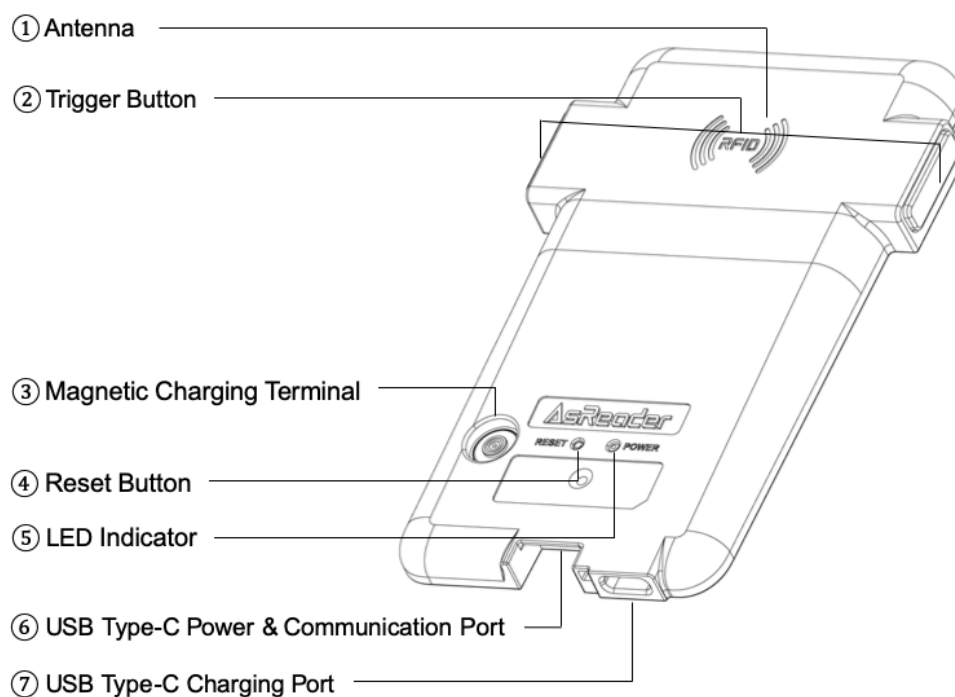
1 Installation

Installation

- ① Connect the ASR-M30S and your smartphone by plugging the joint connector into their USB Type-C ports.
- ② Insert the ASR-M30S and smartphone in the TPU case.



2 Name of Each Part



3 Operation Guide

1 Antenna

- With the application connected, point the antenna at RFID tags for inventory/read/write/lock/kill. The inventory/read/write/lock/kill process will beep and the beep can be set to on/off via the app. It is on by default.

2 Trigger Button

- Read RFID tags

When connected to the app, press one of the trigger buttons to read RFID tags.

Press and release the trigger buttons will beep and the beep can be set to on/off via the app. It is on by default.

- Wake up

The ASR-M30S in sleep mode wakes up when one of the trigger buttons is pressed.

3 Magnetic Charging Terminal

- Connect the dedicated magnetic charging cable to this interface to charge the smart device connected to the ASR-M30S.

4 Reset Button

- The ASR-M30S is forced to restart when this button is pressed.

5 LED Indicator

- Used to indicate charging/work state, red/blue double color.

State of ASR-M30S	State of LED Indicator
Connected to a smart device	Blue
Reading RFID tags	Blue, blinking
Connected to a charging cable	Red
Automatic shutdown	Off

Automatic Shutdown

After the ASR-M30S is connected to a smart device, it will automatically shut down after a period of time without any operation. The LED Indicator will be off.

The ASR-M30S will wake up when one of the trigger buttons is pressed.

The app can control how long the no-operation state lasts before the device shut down. If the value is set to 0, the automatic shutdown function is invalid.

6 USB Type-C Power & Communication Port

- The ASR-M30S can be powered and communicate with the smart device by connecting the ASR-M30S to the Joint Connector (ASP-115).

7 USB Type-C Charging Port

- This port can be used to pass-through a charge to an Android/iOS device 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 smart device.

4 Working Mode

◆ **The ASR-M30S has two working modes: HID mode and Serial mode.**

● **HID mode**

HID (Human Interface Device) mode: When this product is connected to a mobile device in HID mode, the data read by this product is sent to the mobile device as is displayed as a text input tool. Therefore, there is no need to use an App that uses a dedicated SDK.

● **Serial mode**

This mode enables real-time data transfer between ASR-M30S and the App that uses a dedicated SDK.

There are dedicated SDKs for Android and iOS.

◆ **How to change modes?**

You can turn on/off the HID mode through the RFID Settings → HID Mode of the demo app.

* Turning off HID mode is serial mode.

◆ **How to read RFID tags in HID mode?**

When the ASR-M30S is connected to the smart device, put RFID tags close to the antenna of the ASR-M30S (see [① Antenna](#)). Press the Trigger Button (see [② Trigger Button](#)), and the blue light flashes quickly. The data will be entered at the cursor on the screen of the Android or iOS device. Release the Trigger Button to stop reading.

5 How to Charge

Please use a power adapter that supports the USB PD protocol, or a power adapter with an output voltage of 5V to charge the smart device connected to the ASR-M30S. When charging, the charging indicator is red.

- **Charging with the USB Type-C port**

Connect the USB-C charging cable to the USB Type-C charging port (see [⑦ USB Type-C Charging Port](#)) on the ASR-M30S, and connect the other end of the charging cable to the power adapter.

- **Charging with the magnetic port**

Connect the magnetic head of the attached magnetic charging cable to the magnetic charging terminal (see [③ Magnetic Charging Terminal](#)) on the ASR-M30S. Connect the other end of the charging cable to the power adapter.

* Do not use a power adapter other than 5V to charge; otherwise, failure may occur. Failure in this case is outside the scope of warranty.

* If the magnetic charging time is too long, it may be due to poor contact caused by reasons such as dirt on the magnetic charging interface. Please wipe it with a soft cloth before attempting to charge.

* Do not continuously inventory RFID tags when charging the ASR-M30S. This can lead to excessive heating, which can lead to product failure.

Appendix: Product Specifications

SKU		ASR-M30S-05 (Japan) ASR-M30S-03 (US, Canada) ASR-M30S-07 (Australia) ASR-M30S-02 (EU, UK)
RFID	Spec	ISO/IEC 18000-63 (Former 18000-6C) / EPCglobal Class 1 Gen 2
	Radio frequency	Japan: 916.8 ~ 923.4 MHz North America: 902.75 ~ 927.25 MHz Australia: 920.25 ~ 924.75 MHz EU, UK: 865.7 ~ 867.5 MHz
	RF output power	Japan: Max 250mW (24dBm) Others: Max 500mW (27dBm)
	Reading distance (*1)	Japan: 0~6.6 feet (0~2m) Others: 0~8.2 feet (0~2.5m)
	Polarization characteristics	Circular polarization (Internal antenna)
	Functions	Read/Write/Lock/Kill
Power source		USB Type-C port (USB 2.0), Magnetic charging terminal * To charge the smart device connected to the ASR-M30S via the above interfaces. (*2)
Power and Communication interface		USB Type-C port (Power input and USB 2.0) * The smart device supply power to ASR-M30S via the interface.
Human interface		Reset button Trigger button Beep sound LED Indicator (Red/Blue) -Connected to a smart device: Blue -Reading RFID tags: Blue, blinking -Connected to a charging cable: Red
Appearance	Dimensions (W)x(D)x(H)	4.6 × 3.0 × 0.4 inches (116 × 75 × 10mm)
	Weight	Approx. 2.6oz (75g) (*3)
	Resin material	PC-ABS, TPU
	Resin color	Black
Environment	Operating	14°~113°F (-10°C~45°C) at 20~85 %RH
	Charging	32°~113°F (0°C~45°C) at 10~90 %RH
	Storage	-4°~140°F (-20°C~60°C) at 10~95 %RH
	Protection Ratings	IP54 Compliant for Dust and Moisture Resistance
	Drop resistant	AsReader unit dropped from 5 feet (1.5m) to all six-sides and all four-corners, once each
Certifications		MFi TELEC FCC/ISED (being obtained) CE/UKCA (being obtained)
Supported OS		Android, iOS
Accessories (Optional)		Joint connector, TPU case, Magnetic charging cable

*1: The value varies depending on the RF tag, settings, and environment.

*2: Please use a power adapter that supports the USB PD protocol or a power adapter with an output voltage of 5V when charging.

*3: Only the weight of ASR-M30S.

WARNING

This device contains licence-exempt transmitter(s)/receiver(s) 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.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) L'appareil ne doit pas produire de brouillage
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This EUT is compliance with SAR for general population limits in ISSED RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEC/IEEE 62209-1528. This equipment should be installed and operated with minimum distance 0 mm between the radiator and your body, and the SAR value is 1.432 (w/kg). This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet EUT est conforme aux limites d'exposition SAR pour la population générale de l'ISDE RSS-102 et a été testé conformément aux méthodes et procédures de mesure spécifiées dans la norme IEC/IEEE 62209-1528. Cet équipement doit être installé et utilisé à une distance minimale de 0 mm entre le radiateur et votre corps, et la valeur SAR est de 1.432 (w/kg). Cet appareil et ses antennes ne doivent pas être situés ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

FCC RF Exposure (SAR) Compliance Statement

This device has been evaluated for radio frequency (RF) exposure in accordance with 47 CFR § 2.1093 and tested against the Specific Absorption Rate (SAR) limits specified in 47 CFR § 1.1310.

SAR measurements were conducted with the device positioned at a separation distance of 0 mm and placed directly against the body. The test results demonstrate that the device complies with the FCC limit for general population/uncontrolled exposure of 1.6 W/kg averaged over 1 gram of tissue.

This device complies with FCC RF exposure requirements under normal operating conditions.

ASR-M30S User's Manual

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