AsReader ASR-0230D

AsReader DOCK-Type Combo ASR-0230D
USER MANUAL

1. Introduction

The AsReader DOCK-Type Combo ASR-0230D is a versatile device designed to enhance your iPhone's capabilities by adding UHF RFID and barcode (1D/2D) reading functionalities. This separable unit connects via Lightning, offering flexibility and compatibility with various iPhone models. It is ideal for inventory management, asset tracking, and point-of-sale applications.

Key Features:

- Integrated support for Barcode, 2D Code, and UHF band RFID in a single unit.
- Separable main unit and case design for compatibility with other Lightning-connected devices and future iPhone models.
- Equipped with a rechargeable 1100mAh Lithium-ion battery.
- High reading capacity: Approximately 40,000 barcode reads or over 6 hours of continuous RFID operation.

2. Product Components

The AsReader DOCK-Type Combo ASR-0230D consists of the main reader unit and a protective case designed to securely attach to your iPhone.

This image displays the AsReader DOCK-Type Combo ASR-0230D. On the left, the device is shown attached to the front of an iPhone, highlighting its integrated design. On the right, the back of the device is visible, showcasing the RFID antenna area and the barcode scanner lens. The device is white with grey accents.

Key components include the RFID antenna (circular polarization, built-in), barcode CMOS sensor, illumination and aiming light sources, and the Lightning connector for iPhone integration.

3. Setup

3.1 Attaching to iPhone:

1. Ensure your iPhone is clean and free of debris.
2. Carefully slide your iPhone into the protective case provided with the AsReader unit, ensuring the Lightning connector aligns properly.
3. Gently push the iPhone until it is fully seated and the Lightning connector is securely engaged with the AsReader main unit.

3.2 Initial Charging:

Before first use, fully charge the AsReader device. Connect a compatible charging cable to the charging port on the AsReader unit. The charging indicator (if present) will show the charging status. A full charge ensures optimal performance and battery life.

4. Operating Instructions

4.1 RFID Operation:

The AsReader ASR-0230D supports UHF RFID tag reading and writing. To operate:

1. Ensure the AsReader is connected to your iPhone and the relevant application is open.
2. Point the RFID antenna area of the AsReader towards the RFID tag you wish to read.
3. Press the trigger button (if available on the device) or initiate scanning via the application.
4. The device will emit a signal to read the tag. Data will be displayed in your application.
5. For writing, locking, or erasing tags, follow the specific instructions within your RFID application.

4.2 Barcode Operation:

The device can scan various 1D and 2D barcodes using its integrated CMOS sensor.

1. Open the barcode scanning function within your application on the iPhone.
2. Aim the barcode scanner lens at the barcode, ensuring the aiming laser (red light) covers the entire barcode.
3. Press the trigger button (if available) or activate scanning through the application.
4. Hold the device steady until the barcode is successfully read. A confirmation sound or visual cue will indicate a successful scan.
5. Maintain an appropriate distance from the barcode for optimal reading (refer to specifications for readable range).

5. Specifications

5.1 RFID Specifications:

Feature	Description
Standard	ISO 18000-63 (formerly 18000-6C) / EPCglobal Class 1 Gen 2
Frequency	920.6 - 923.4 MHz (Japan specification)
Transmit Power	250mW (24dbm specified low power)
Read Distance	0 - 1m
Polarization	Circular polarization (Antenna built-in)
Functions	Read, Write, Lock, Erase

5.2 Barcode Specifications:

Feature	Description
Reading Method	CMOS Sensor
Readable Range (Example)	100% U.P.C.: 46 mm - 419 mm CODE 39 - 5 mil: 64 mm - 163 mm CODE 39 - 10 mil: 28 mm - 338 mm PDF417 - 6.7 mil: 46 mm - 185 mm Data Matrix - 10 mil: 53 mm - 203 mm
Reading Width	42.4° (horizontal), 33° (vertical)
Reading Angle	Pitch: ±45°, Roll: 360°, Skew: ±60°
Readable Codes	**1D:** UPC/EAN/JAN, GS1 DataBar, Code 39, Code 128, Code 32, Code 93, Codabar/NW7, Interleaved 2 of 5, Code 2 of 5, Matrix 2 of 5, MSI, Telepen, Trioptic, China Post **2D Stacked:** PDF417, MicroPDF417, GS1 Composite **2D Matrix:** Aztec Code, Data Matrix, QR Code, Micro QR Code, MaxiCode, Han Xin Code **Postal:** Intelligent Mail Barcode, Postal-4i, Australian Post, British Post, Canadian Post, Japanese Post, Netherlands (KIX) Post, Postnet, Planet Code
Light Source	Illumination: White LED, Aiming: Red Laser (Class 2)

5.3 General Specifications:

Feature	Description
Model	ASR-0230D, ASR-0230D-V2, V4
Power Source	Battery powered
Battery	Rechargeable Lithium-ion Battery 1100mAh
Battery Life (Approx.)	Barcode: 40,000 reads RFID: 6 hours or more

6. Maintenance

6.1 Battery Care:

- To maximize battery lifespan, avoid fully discharging the battery frequently.
- Charge the device regularly, especially if it will be stored for an extended period.
- Use only the manufacturer-recommended charging accessories.

6.2 Cleaning:

- Gently wipe the device's exterior with a soft, dry, lint-free cloth.
- For stubborn dirt, slightly dampen the cloth with water. Avoid using harsh chemicals, solvents, or abrasive cleaners.
- Ensure the barcode scanner lens and RFID antenna area are kept clean for optimal performance.

7. Troubleshooting

Common Issues and Solutions:

- **Device not connecting to iPhone:** Ensure the Lightning connector is clean and securely seated. Restart both the iPhone and the AsReader device.
- **Barcode not scanning:** Check if the barcode is damaged or smudged. Ensure proper distance and angle. Clean the scanner lens. Verify the barcode type is supported.
- **RFID tag not reading:** Ensure the tag is within the read range (0-1m). Check for interference from metal objects. Verify the tag is a supported UHF RFID type.
- **Battery not charging:** Ensure the charging cable and power adapter are working correctly. Check the charging port for debris.
- **Application issues:** Ensure your application is up-to-date. Consult the application's support documentation.

If problems persist, please contact customer support.

8. Warranty and Support

For detailed warranty information, please refer to the warranty card included with your product or contact your point of purchase. Keep your proof of purchase for warranty claims.

For technical support, product inquiries, or service requests, please visit the official AsReader website or contact their customer service department. Contact information can typically be found on the manufacturer's website or in the product packaging.