

Desktop RFID Reader

DR901

QUICK
GUIDE



BLUEBIRD



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User’s Guidance

Device type	User’s guidance
Class B Device (Household Information & Communication)	This device has qualified the electromagnetic wave suitable registration and can be used as a household device at a residential area as well as any other areas.
Type Registration	This wireless device may cause propagation interference, and so, it cannot be used for life-saving services.

1 Safety Information



1.1 Symbols

This manual uses the following symbols to indicate hazards and additional information.

Symbol	Name	Description
	Warning	Indicates situations that could cause injury to yourself or others.
	Caution	Indicates situations that could cause damage to your device or other equipment.
	Note	Indicates additional information that can help you get the most out of the device.

Please read this safety precaution information carefully. Failure to follow the information provided may result in fire, electric shock, or other property damage or bodily injuries.

1.2 Device

- Do not use your device in an explosive danger zone.
- If your device becomes wet, do not put your device in heaters, microwaves, etc. to dry it. There is a risk of explosion or malfunction.
- Do not modify, take apart, or repair the device. Contact to your customer service center. Failure to do so will void your warranty.
- Although this device is very sturdy, do not drop, hit, bend, or sit on it on purpose. It can be broken.
- Do not attempt to modify your hardware or software. It may cause device malfunction and void your warranty.
- You may not be able to use this wireless device in basements, open fields, skyscrapers, or other places where the signal is weak.
- Backup the data and information from your device. Your data, such as ringtones, texts, and voice messages, may be erased during repairs or upgrades.
- Do not paint your device. It can damage your screen or your device's exterior.
- Avoid using or storing this device at extreme temperatures. This device is designed to work at temperatures between 0°C and 50°C (32°F and 122°F), and humidity level between 5% and 95%.



1.3 Environment



- Do not use the device while driving or operating heavy machinery. Doing so may result in death or serious injury.
- Do not use the device in locations with combustible goods. Doing so may result in an explosion.



- Do not use the device in dusty or hot locations. Doing so may damage the device.
- Do not expose your device to direct sunlight such as on the dashboard of a car for extended periods of time.
- Do not use the device in humid locations. Doing so may damage the device and void the warranty.
- Do not keep the device close to air conditioner vents. Corrosion within the device may occur due to condensation from changes in temperature.
- Do not allow children to play with the device.

1.4 Distraction



In some situations, using your device may distract you and cause serious injuries and damages. For example, avoid talking on the phone or texting while driving or riding a bicycle. It is strictly prohibited by law in some jurisdictions. If you cannot avoid using your device while driving, stop your vehicle or use hand-free kit.

1.5 Frequency Interference



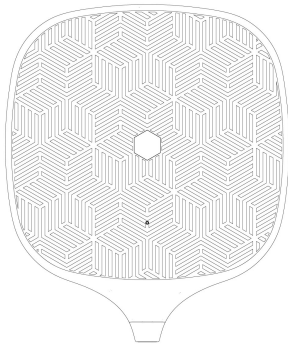
- This wireless device may cause radio frequency interference, so use Airplane mode or turn off the device when prohibited.
- The device emits an electromagnetic fields. It may interfere with your medical devices.
- Do not place credit cards, phone cards, bankbook, and tickets next to the device. The magnetic field of the device can damage their magnetic strips.

2 Overview

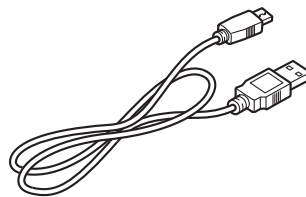


2.1 Package Contents

The package includes:



DR901 device



Micro USB cable (C-type)

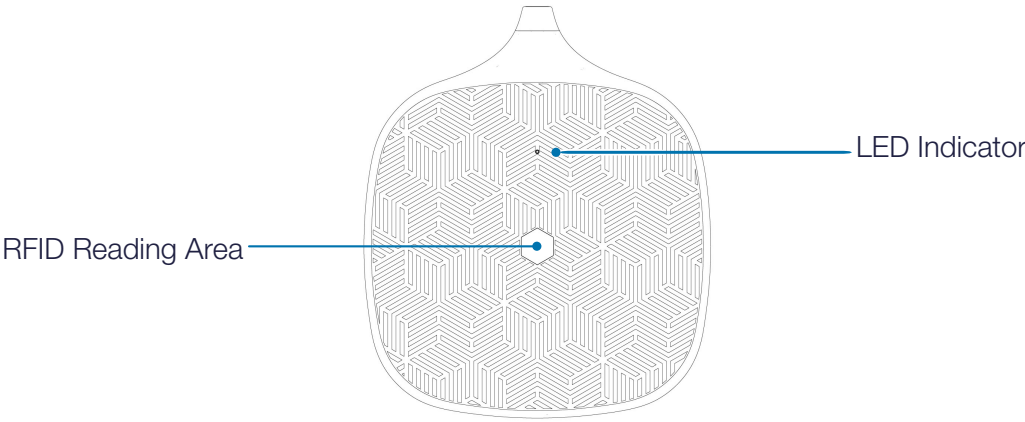


The illustrations may differ from your actual items.

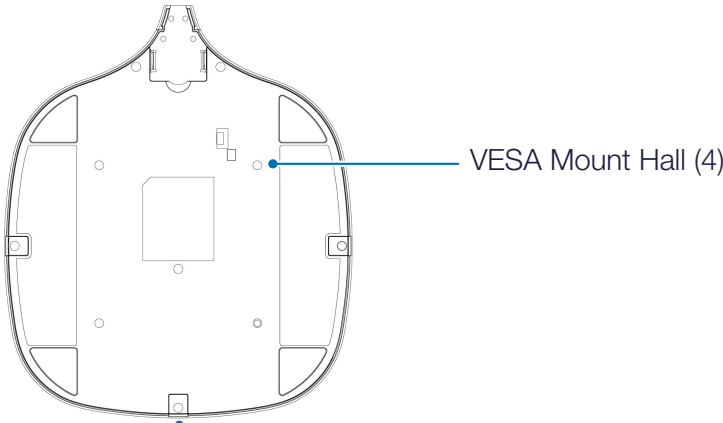


2.2 Your Device

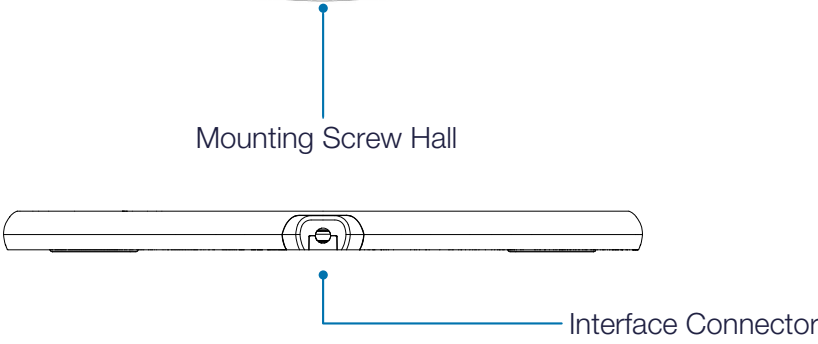
2.2.1 Front



2.2.2 Back



2.2.3 Bottom



3 Verify Reading



- This function generates Warning sign if there is an error upon reading a tag when Verification Mode is enabled.
- Verification Mode is set to disable by default.

3.1 Verification Mode: Default Enable

- In case of Verification Mode Disable:
 - Tag reading is attempted once, and tag information will be released immediately when reading.
- In case of Verification Mode Enable:
 - The tag is read as much as the Verify Read Time and product information is output when all tags are read more than twice. A warning sign (2 beeps & red LED Blink) is generated if there is a tag read only once.

3.2 Verify Read Time : Default 500ms

- Time to read the tag
- Setting available time: 300 ~ 1000ms (When setting other values, popup will be displayed in demo tool)



Points to note when reading multiple tags

- For better reading, limit the number of tags to be read simultaneously to 5 or less.
- For better reading, collect the product in the center of the DR901 reader, and do not float the tag more than 5cm from the reader.
- Do not let the tag be read while moving the product from side to side.
- Make sure all tags are read correctly by comparing the number of tags read with the number of tags you want to read.
- Enable Verification Mode to use tag Verification

4 Device Specification



Physical Characteristics

Dimensions (W x H x D)	220 x 261 x 14 mm
Weight	327 g
Supported Host Interfaces	USB Keyboard Wedge (HID), USB Serial (COM)
Visual Status Indicators	1 LED, Buzzer

RFID Characteristics

Fast Read Rate	710+ Tags/sec
Nominal Read Range	2.3M / 7.5ft
Air Protocols	EPC Class 1 Gen2 V2 compliant

User Environment Characteristics

Operating Temp.	0°C to 50°C / 32°F to 122°F
Storage Temp.	-30°C to +70°C / -22°F to +158°F
Sealing	IP42

Software

SDK	Windows, Android, Linux, CentOS
Driver	OPOS, JavaPOS, USB Serial (COM), USB HID

Accessories

Accessories	Mount
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Please ask your sales representative for the specifications not listed above or for the future upgradeable specifications.

5 Troubleshooting



I dropped the device in the water.

Turn off the device. Place the device in a dry place. Let them dry completely for a considerable period of time, and then turn the device back on. If it does not turn back on, contact our service center.

My device gets too hot to touch.

It is normal for the device to warm up while it is receiving a poor signal, performing an intense workload. It should cool down if you stop using the device for a certain amount of time. If the problem continues, contact the manufacturer. It may result in fire.

How do I get the repair service?

You can contact your local sales representative or you can send the device via a delivery service to Bluebird's Korean headquarters. When sending the package, make sure you pay for the shipping fee in advance. When the repair is finished, Bluebird will cover the shipping cost.

6 Warranty and Support



Customer support

Before asking for after-sales service, please back up the data on the device. We do not back up data from the products sent to the Customer Service Center. Therefore, we assume no responsibility for loss/deletion of data.

Customer Service Center

#1103, Gplus Kolon Digital Tower 11F,
Digital-ro 26-gil 123, Guro-gu, Seoul, Republic of Korea(08390)

- Fax: +82-2-6499-2242
- Email: rma@bluebirdcorp.com
- Hours: 9:30 a.m. - 6:30 p.m. (GMT Time: +9 Hours)



The center is closed on Saturdays, Sundays, and Korean national holidays.

Registering for After-Sales Service

- We receive the products for our after-sales service through mail, delivery services and hand delivery only in principle.
- If you bought the product from a party other than Bluebird or an authorized Bluebird reseller, you need to register the product before using our after-sales service.
- Please enclose an evidence of purchase or the product receipt for our after-sales service.
- Please enclose your name, telephone number, address and details of the problem for a prompt service.
- You can ask for our after-sales service by contacting your authorized Bluebird dealer or the Customer Service Center in the head office.
- Do not intentionally damage the label on the product.
- A damaged label may result in a disadvantage to the customer.
- When you return the product to Bluebird for service, please put the product in a protective box.
- The warranty will not cover any damage which occurs during delivery. We advise you to use the box and protective cover supplied with the product.
- Make sure to deliver the product in a safe way. Bluebird assumes no responsibility for the loss of the product during delivery.



Charged services

- In the following cases, it will be charged when requesting for after-sales service.
 - Service request due to inappropriate use of the device by the customer
 - Loss of PIN number
 - Use of programs that might affect the program (over-clock, forceful changes in the input of the system, personal developments)
- Faults caused by the customer.
 - Defect due to inappropriate or careless use of the product (dropping, submersion under water, shock, damage, unreasonable operations, etc.)
 - Defect due to a repair or unauthorized technician
 - Defect caused intentionally or by the carelessness of the customer
 - Defect due to the use of fraudulent parts or components
- Other cases
 - Defect due to nature (damage caused by fire, wind, flooding, etc.)
 - Accessories are out of warranty (accessories like battery/charger/cable/adapter, etc. have a warranty of 6 months)
- Regulations for repairs after charged services
 - If the same fault occurs in the part that has been repaired within a 1 month (30 days), the part will be repaired free of charge.



No refunds will be offered in the following situations:

- The product seal has been removed (if applicable).
- The product has been damaged due to careless use by the customer or due to a natural disaster (floods, rain, fire, etc.).
- Loss of product or other components (manual, connecting cables, etc).
- DOA (Dead on Arrival) policy
If your product is DOA (Dead on Arrival), or has malfunction within 30 days of purchase (DOA period), the product will either be exchanged or provided with after-sales service.



Warranty certificate

Thank you for purchasing a product from Bluebird Inc.

- In case of accessories such as batteries, only those that match the sales list managed by the Customer Service Center will be eligible for customer service.
- A repair or an exchange of batteries that does not match the sales list of the Customer Service Center due to the carelessness of the customer will be fully charged.

Name of Product	Desktop RFID Reader
Name of Model	DR901
Date of Purchase	
Manufacture Number	
Place of Purchase	
Term of Guarantee	1 year from purchase

Warranty information

- Bluebird Inc. (hereinafter referred to as Bluebird) provides the warranty service for its products in compliance with the Bluebird's warranty program.
- Upon receiving a notification on a defect of its product within the range of warranty during the warranty period, Bluebird will repair or replace the defective product according to its warranty policy.
- If the defective product within the range of warranty is not repairable or replaceable, Bluebird shall refund the purchasing price within a designated period from the date of receiving a notice of defect.
- Bluebird assumes no responsibility for repairing, replacement or refund until it receives the defective product from the customer. The replacement shall be equivalent to a new product in the aspect of performance.
- Bluebird products may contain the recycled products, components or materials equivalent to new products in the aspect of performance.
- This warranty is applied to software products only when the programming commands are not executed. Bluebird does not guarantee interruption-free or error-free performance.



BLUEBIRD CUSTOMER SERVICE

Operating Hours

Monday to Friday 9:30 A.M. - 6:30 P.M.
(GMT Time: +9 Hours)
The center is closed on Saturdays,
Sundays, and Korean national holidays.

Customer Service Center

#1103, Gplus Kolon Digital Tower 11F,
Digital-ro 26-gil 123, Guro-gu, Seoul,
Republic of Korea(08390)

Bluebird constantly strives to bring utmost
satisfaction to all our customers.