

RFR900
Smart Terminal



user manual

BLUEBIRD
version 1.0

About this manual

RFR900 provides high quality features for a smart terminal using Bluebird's creative ideas and technological expertise. This user manual is designed to help users use the device effectively.

- Please read this manual carefully before using the device for safe and proper use.
- This device may only be used in countries where it is sold.
- The components and colors of this device in this manual may differ from the actual product.
- Features and specifications are subject to change without prior notice.
- Content may vary by device's software version or by service provider or carrier.
- Application and features may vary by country or region.
- Certain features of this device may have performance issues due to user environment, programs in use, or peripheral device usage. Bluebird is not liable for any issue caused by applications or accessories from any provider other than Bluebird.
- Modifying the device's operating system or installing software from unknown sources may cause device malfunction or data loss. Improper or unauthorized use of the device is a violation of Bluebird license agreement and void your one-year limited warranty.

Copyright

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Bluebird Inc. is the designer and manufacturer of Pidion handheld mobiles.

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User's guidance

Device type	User's guidance
Class B Device (Household Information and Communication Device)	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.

Overview

Package Components

The package includes:



RFR900 device



Battery



Battery cover



Micro USB cable

Optional accessories: Protection film, adapter plug (220 V), Power adapter for direct charging, 1-slot cradle, 1-slot cradle power adapter, 4-slot cradle, 4-slot cradle power adapter, vehicle charger, user manual



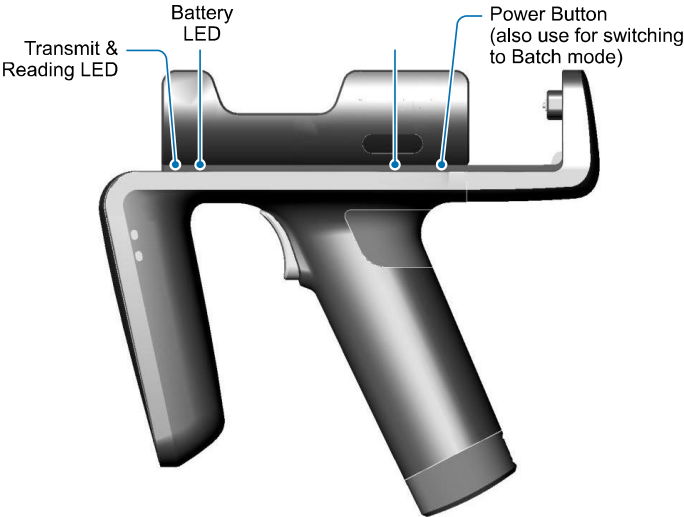
NOTE

To purchase optional accessories, contact your sales representative.

You can download your user manual from www.mypidion.com. However, the paper version may be available for some regions.

Your Device

Front



Back



Battery

RFR900 uses a 3,500 mAh Lithium-ion rechargeable battery. Install the provided battery before starting to charge the device.

Installing the Battery

- 1 Turn the battery lock counterclockwise to unlock the battery cover.
- 2 Use the notch and lift the battery cover. Remove the cover completely.



CAUTION

When removing the battery cover, be careful not to damage your fingernail. Do not try to pull the battery cover excessively. It may damage the cover.

- 3 Insert the battery. Make sure the gold contacts are aligned.
- 4 Replace the cover. Insert the bottom of the cover first and then press around the edge of the cover until it clicks into place.
- 5 Turn the battery lock clockwise to lock the battery cover.

Removing the Battery

- 1 Remove the battery cover as described in [Installing the Battery on page 11](#).
- 2 Use the notches at the top of the battery to pull out.



CAUTION

Before removing the battery, turn off the power. If not, it may damage the device.

Charging the Battery

Charge the device first when using the device for the first time or have not used it for a long time. The device can be charged with a charger or a cradle. You can also charge the battery by connecting it to your computer with the provided micro USB cable.

When the battery is low, the device will emit a sound and display a low power message. When it is charging, the charging lamp will show red light. When the battery is fully charged, it will turn to green light.

The charging status will also show on the lock screen.

To charge with the charger

Plug the micro 5-pin end of the charger into the multipurpose jack of the device. Connect the USB cable of the charger with power adapter. Plug the charger into a power outlet.



NOTE

When the battery is extremely low on power, the device may not turn on. Charge the device enough and try to turn it on again. You can use the device while charging. But it may take longer time to charge the device fully.



CAUTION

Connect the charger properly; it may damage the device.

The device may heat up. If it gets hotter than usual, stop charging.

Do not remove the battery before disconnecting the charger. It may damage the device.

To charge with the cradle

Place the device on the cradle as illustrated below. Connect the power adapter with the cradle, and plug it into a power outlet.



NOTE

You can also take out the battery from the device and charge it separately on a cradle.

Device Specifications

Physical Characteristics	Dimensions (mm)		
	Weight (g)		
	Battery	Standard	3,500 mAh
		Extended	X
		Hotswap	X
	Interface	USB	O
		Key	Power
	Mode Change		O
	Reset		X
	Indication	LED	5ea
RFID	Power Output		EU: 1/2W ERP JP: 1/2W EIRP US: 1W EIRP Russian Federation: 1/2W ERP
	Antenna Type		
	Freq. Range		EU: 865-868 MHz JP: 918-920 MHz US: 902-928 MHz Russian Federation: 866.0-867.6 MHz
	Standards Supported		GEN2 V2
User Environment	Operating Temp.		-10°C to 50°C
	Storage Temp.		-40°C to 70°C
	Humidity		5% to 85% non-condensing
	Drop		4 ft/1.2m to concrete
	Tumble		250 1.6ft/0.5m tumbles 500 at room temp.
	ESD		15KV air / 8KV contact
Bluetooth		BT2.1 EDR	
Barcode		X	
Warranty		1 year from purchase	

Troubleshooting

The battery does not charge properly.

- Ensure that your device and the charging cable is connected and the LED lamp is working properly.
- If the battery does not charge completely, it may be dead or defective. Replace a battery with new one. (The warranty period for battery replacement is six months.)

The battery life got shorter.

When you use network data or peripheral device such as wireless LAN or Bluetooth that require more power, your device may use more battery than usual. If it happens for an extended period of time, your battery may be dead. Then replace it with a new battery.

I dropped the device in the water.

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

My device gets too hot to touch.

It is normal to get warm if receiving poor signal, performing intense workload, or battery is charging. It should not last if you stop using the device for a certain amount of time. If the problem continues, contact the manufacturer for persistent or extreme heat. It may result in a burst battery or fire.

How do I get the repair service?

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

Safety and Handling

WARNING

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

General precautions

These simple guidelines will help you for operating your device properly, maintaining it safe, and experience satisfactory services.

Device

- To not scratch the device's touchscreen. Use your finger or only compatible pen. Never use an actual pen, or any other sharp object on the touchscreen.
- Do not press power button on the device if the device is wet or do not touch adapter or power cord with wet hands. There is risk of electric shock.
- Do not use your device at an explosive danger zone.
- Although this device is very sturdy, do not drop, hit, bend, or sit on it on purpose. It can be broken.
- Do not remodel, take apart, or repair the device. Contact to your customer service center. If not the case, you will not be able to get your free repair service.
- 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 the basement or certain places in buildings where the signal is weak, or on open fields or in skyscraper or tall buildings where there is no signal.
- Backup the data and information from your device. Your data such as ringtones, text or voice message, characters may be erased during the repair or upgrade.
- Do not paint your device. It can damage your screen or your device's exterior. Also, the paint can peel off and it triggers allergies. If there is allergic reaction, please seek medical attention.
- In case your device is wet, do not put your device in heaters, microwaves, etc. to dry. There is a risk of explosion or it can be the cause of malfunction.
- Keep the device away from children.
- Avoid using or storing this device in too high or too low temperature. This device is designed to work in temperature between 0°C and 50°C (32°F and 122°F), and humidity between 5% and 95%.
- Do not expose your device to direct sunlight such as on the dashboard of a car for extended periods of time.
- Avoid wet, dusty, or damp place for storing your device.
- Do not keep the device close to the vents of air conditioning. Corrosion within the device may occur due to dew condensation from dramatic changes in temperature.

Battery and charging

- Improper battery use may cause fire, explosion, or other hazard.
- If the battery is taken apart by impact, applied heat, submersion, or hole-drilling, there is a risk of a dangerous explosion. Keep away from children and animals.
- Do not make any improper contact on battery contact pin with necklaces, coins or any electric conductors. Do not give any impact with sharp objects. There is a risk of explosion.
- Use only the approved battery and charger. Using incompatible battery or charger may cause device malfunction, or other damages such as fire.
- When you are not using the device for a long period, take out the battery and keep the device and the battery in a dry, cool place. Also, charge the battery once a year. If you keep it without charging for a long time, it may cause device malfunction.

Distraction

- 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 laws in some jurisdictions. If you are in an unavoidable situation, stop your vehicle or use hand-free kit.

Frequency interference

- This wireless device may cause radio frequency interference, so do not use the device or turn on Airplane mode when prohibited.
- The device emits 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 forces of the device can damage the information of listed item.

FCC compliance information

This device complies with Part 15 of the FCC's 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 undesirable operation.

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

End users cannot modify this transmitter device. Any Unauthorized modification could void the user's authority to operate this device.

This device was tested for typical body-worn operations with the back of the handset kept 0.39 inches (1cm) between the user's body and the back of the handset.

To comply with FCC RF exposure requirements, the handset must be kept 0.39 inches (1cm) from the body without any reference to a particular side or edge.

Any beltclips, holsters, and similar accessories containing metallic components may not be used.

Body-worn accessories that cannot maintain 0.39 inches (1cm) separation distance between the user's body and the handset, and have not been tested for typical body-worn operations may not comply with FCC RF exposure limits and should be avoided.

Part 15.105 (B)

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.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

IEC 60417-6044



Do not listen to sound at high volume for long periods. It may cause hearing damage. Also, only use compatible receiver, headphones, or earpieces with your device.

CE

CE 2200

Hereby, Bluebird Inc. declares that this RFR900 is in compliance with the essential requirements and other relevant provisions of directive 1999/5/EC.

To comply with CE RF exposure requirements, the handset must be kept 0.59 inches (1.5cm) from the body without any reference to a particular side or edge.

Any beltclips, holsters, and similar accessories containing metallic components may not be used.

Body-worn accessories that cannot maintain 0.59 inches (1.5cm) separation distance between the user's body and the handset, and have not been tested for typical body-worn operations may not comply with CE RF exposure limits and should be avoided.

European Union (EU) Waste of Electrical and Electronic Equipment (WEEE) directive



According to the European Union's WEEE directive, this symbol means that products sold into EU countries must dispose electrical device and/ or its battery separately from household waste. Disposing of the device separately will help conserve resources and energy and contribute to human health and environment protection.

Customers or end-users in EU countries should contact their local equipment supplier representative or service centre for information about the waste collection system in their country.

Warranty and Support

Warranty certificate

Thank you for purchasing a product from Bluebird Inc.

- If a circumstance arises where you lose a receipt or the certificate of guarantee, then the term of guarantee will be calculated 3 months (certified by the number of the manufacture, a certificate of inspection) after the date of manufacture.
- In case of accessories such as batteries, only those that match the sales list managed by the service center will be eligible for customer service.
- A repair or an exchange of batteries that does not match the sales list of the service center due to the carelessness of the customer will be fully charged.

Name of Product	Handheld Mobile Computer
Name of Model	RFR900
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 regulations on compensation for damage of customer.
- 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.
- Warranty of Bluebird is valid in the countries where the Bluebird products are distributed by Bluebird. (Contract for additional warranty service like field service)
- 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.

Customer support

IMPORTANT

Before asking for after-sales service, please back up the data from the terminal. We do not back up data from the products received in the Customer Care Center. Therefore, we assume no responsibility for loss/deletion of data.

Customers service center

SSang-young IT Twin tower, B703
531, Dunchon-daero, Jungwon-gu
Seongnam-si, Gyeonggi-do
South Korea 462-727

- Fax: +82-2-548-0870
 - Email: mookseven@bluebird.co.kr
 - Hours: 9:30 a.m. - 6:30 p.m. (GMT Time: +9 Hours)
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NOTE

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

Registering for After-Sales Service

- We receive the products for after-sales service through mail, delivery service and hand carry only in principle.
- If you bought the product from any party other than the authorized dealer, you need to register the product before asking for after-sales service.
- Please enclose an evidence of purchasing or the receipt to the product for after-sales service.
- Please enclose the name, telephone number, address and symptom for prompt service.
- You can ask for after-sales service through the dealer or the Customer Care Center in the head office.
- Do not intentionally damage the label on the product.
- 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.
- Warranty will not be provided for any damage occurring during delivery. We recommend 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 loss of the product during delivery.

Charged services

- If it is not a default, it will be charged when requesting for after-sales service.
 - Service request due to inappropriate use of the customer
 - Loss of a PIN number

- Use of programs that might effect the program (over-clock, forceful changes in the input of the system, personal developments)
 - Default due to a mistake on the part of the customer
 - Default due to inappropriate or careless use of the product (dropping, submersion under water, shock, damage, unreasonable operations, etc)
 - Default due to a repair or unauthorized technician
 - Default caused intentionally or by carelessness of the customer
 - Default due to the use of fraudulent parts or components
 - Other cases
 - Default due to nature (fire, damage due to sea wind, flood damage, etc.)
 - Expendable parts have exhausted there life (batteries, antenna, or other component parts).
 - Regulations of treatment after charged service
If the same default occurs on the part that had been repaired within a 2 months(60 days) period, it will be provided with free of charge repair service.
-



NOTE

There will be no returning of good repayment upon the following situation:

- Removal of the sealing of the product if it had been sealed.
 - If 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 (CD, diskette, manual, connecting cables, etc).
 - Damage to the product after 10 days of purchase, the product will either be exchanged or provided with after-sales service (note, returning of goods or repayment is not allowed).
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