

**EF501R**

# **user manual**

BLUEBIRD  
version 1.0

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## User's Guidance

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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.



## 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.

## Device



- Do not press the 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 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 scratch the device's touchscreen. Use only your fingers or a compatible pen. Never use an actual pen, or any other sharp object on the touchscreen.
- Although this device is very sturdy, do not drop, hit, bend, or sit on it on purpose. It can be broken.
- Do not modify, take apart, or repair the device. Contact to your customer service center. Failure to do so will void your warranty.
- 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 -20 °C and 60 °C (-4 °F and 140 °F), and humidity level between 5 % and 95 %.



## 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.

## Battery and Charging



- Improper battery use may cause fire, explosion, or other hazard.
- If the battery is removed due to impact, heat, submersion, or other damage, there is a risk of explosion. Keep away from children and animals.
- Do not allow the battery's contacts to touch things like necklaces, coins, or electric conductors. Do not give any impact with sharp objects. There is a risk of explosion.



- Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
- Use only the approved battery and charger. Using an incompatible battery or charger may cause device malfunction or other damage, 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 at least once a year. If you keep it without charging for a long time, it may cause device malfunction.

## 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.

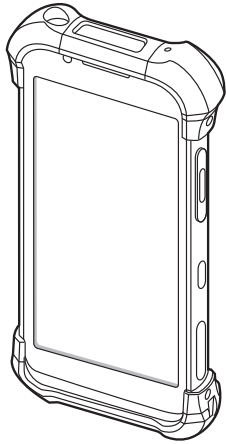
## Frequency Interference



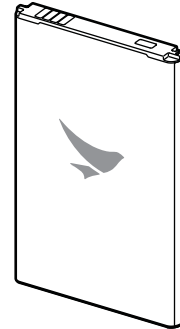
- This wireless device may cause radio frequency interference, so use Airplane mode or turn off the device when prohibited.
- The device emits an electromagnetic fields. It may interfere with your medical devices.
- Do not place credit cards, phone cards, bankbook, and tickets next to the device. The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



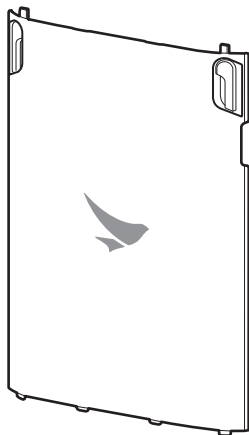
## Package Contents



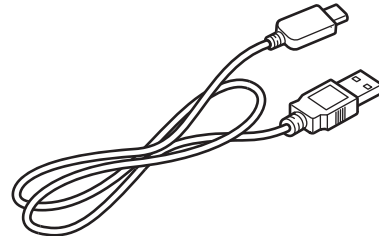
EF501R device



Battery



Battery cover



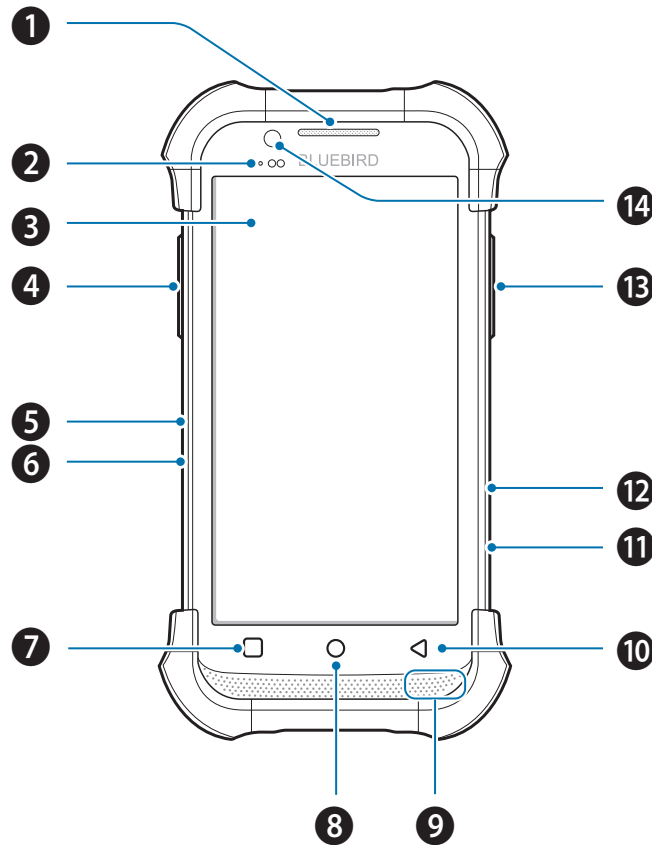
USB cable (Type C)



- The illustrations may differ from your actual items.
- To purchase additional accessories, contact your sales representative.
- You can download your User Manual from [www.mypidion.com](http://www.mypidion.com). The paper version may be available for some regions.
- For the power adapter, use the product listed below.
  - PSAC30U-090 by Phihong Technology Co., Ltd. (Input: AC 100 ~ 240 V, 50 ~ 60 Hz, 0.5 A / Output: DC 9.3 V, 3 A)



## Front



No.	Name	Description
1	Receiver	Allows user to hear the person they are talking to while on the phone.
2	Charging LED	Indicates the status of the battery. The charging LED turns red when the battery is charging and turns green when the battery is fully charged.
3	Touchscreen	Displays apps and acts as a multi-touch interface.
4	Left button	Functions as the barcode scan button. You can also change the functions of the Left button.
5	Volume up button	Turns the volume up.
6	Volume down button	Turns the volume down.



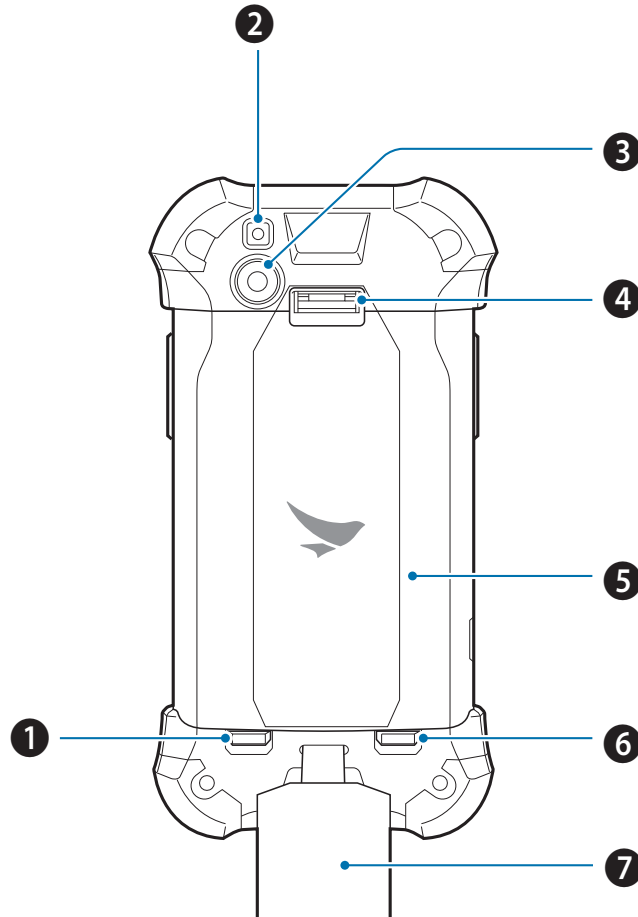
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No.	Name	Description
7	Menu button	Displays more option menus. If you tap and hold this button for a few seconds, the apps you previously opened will be listed. Tap any app to open it.
8	Home button	Returns to the Home screen.
9	Speaker	Emits sound.
10	Back button	Returns to the previous page or menu.
11	Multi-purpose jack	Connects your device with other devices, such as a computer, via a USB cable (Type C).
12	Power button	Turns the device or screen on or off. You can lock the device by turning off the screen.
13	Right button	Functions as the barcode scan button. You can also change the functions of the Right button.
14	Front camera	Takes selfies and records videos (2 Megapixel). You can use it when you have a video call.

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## Back

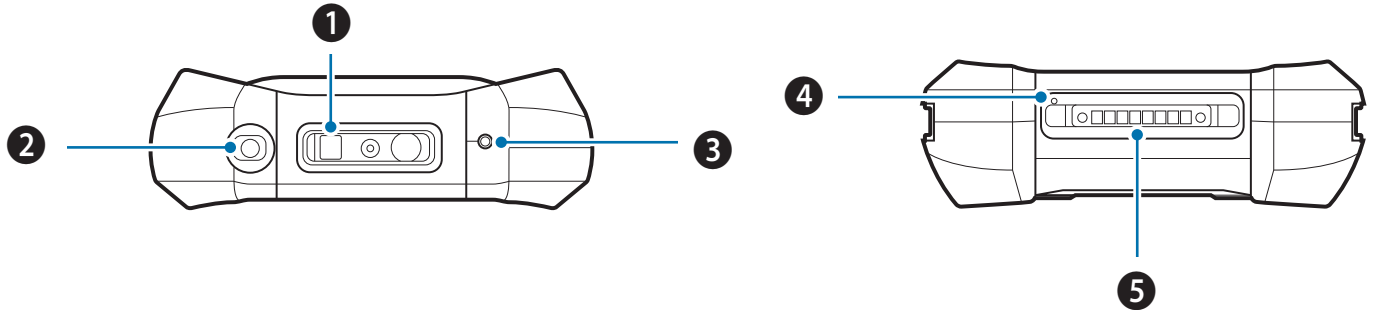


No.	Name	Description
1	Left battery lock	Locks the battery cover so that it does not become detached from the device.
2	Flash	Illuminates your surroundings when using the camera and related apps.
3	Rear camera	Takes photos and record videos (13 Megapixel).
4	Handstrap hole	Secures the handstrap.
5	Battery cover	Protects the battery and inner part of the device.
6	Right battery lock	Locks the battery cover so that it does not become detached from the device.
7	Handstrap	Allows you to hold your device firmly.





## Bottom and Top



No.	Name	Description
1	Barcode scanner	Scans barcodes by emitting a red laser when you press the related button.
2	Headset jack	Connects to the headset.
3	Secondary microphone	Acts as sub microphone, removing noise and echoes.
4	Primary microphone	Captures sound for calling, video recording, and speech recognition.
5	Charging contacts	Allows the device to be charged.



## Physical Characteristics

Dimensions (L x W x D)	166.5 X 88.75 X 28.9 mm
Weight	360 g
Display	5.0 inch HD (1280 X 720), Gorilla Glass 3 Capacitive Touch Screen
Battery	Rechargeable, 3.8 V, 6,400 mAh, Li-ion
Expansion slot	Customer-accessible microSD slot for removable memory cards with a capacity of up to 64 GB
SIM/SAM slot	2 SIM / 1 SAM
Audio	Dual noise-cancelling microphones; High-quality speaker phone; headset jack (3.5 mm)
Camera	Rear: 13 megapixel auto-focus camera with LED flash Front: 2 megapixel fixed focus
Barcode scanner	1D/2D Imager
NFC (optional)	ISO 14443 Type A and B; F; FeliCa, and ISO 15693 cards, MiFare
Biometrics	Supported with Smart Plug
GPS	A-GPS, GLONASS
Sensor	Ambient Light, Proximity, Gyroscope, Accelerometer

## Performance Characteristics

Processor	2.0 GHz Octa Core Processor
OS (optional)	Android 7.X
System memory (optional)	Default: 2 GB, Optional: 4 GB
Built-in storage (optional)	Default: 16 GB, Optional: 32 GB
Interface	Docking connector; USB Type C (3.0)



## User Environment Characteristics

Durability	TankSmith™ Technology
Operating temperature	-10 °C to 50 °C (14 °F to 122 °F)
Storage temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Humidity	95%, non-condensing

## Communication Options

WWAN Radio (optional)	<p>LTE B2 (850~1910 MHz, 24.50 dBm*) B4 (2500~2570 MHz, 24.50 dBm*) B5 (824~849 MHz, 24.00 dBm*)</p> <p>HSPA+/HSPA/UMTS</p> <p>GSM/GPRS/EDGE GSM 850 (824.2~848.8 MHz, 33.00 dBm*) GSM 1900 (1850.2~1909.8 MHz, 31.70 dBm*)</p> <p>WCDMA B2 (1852.4~1907.6 MHz, 24.00 dBm*) B5 (826.4~846.6 MHz, 24.00 dBm*)</p>
WLAN Radio (optional)	<p><b>WLAN</b></p> <ul style="list-style-type: none"><li>• 802.11 a/b/g/n/ac (802.11n 2.4 GHz and 5 GHz)</li><li>• 802.11 b/g/n (2.4 GHz)<ul style="list-style-type: none"><li>- 2412~2462 MHz (bandwidth: 20 MHz)</li><li>- 2422~2452 MHz (bandwidth: 40 MHz), 17.00 dBm</li></ul></li><li>• 802.11a/n/ac (5 GHz)<ul style="list-style-type: none"><li>- 5180~5700 MHz (bandwidth: 20 MHz), 5190~5670 MHz (bandwidth: 40 MHz), 5210~5530 MHz (bandwidth: 80 MHz), 12.20 dBm</li></ul></li><li>• 802.11a/n/ac (5.8 GHz)<ul style="list-style-type: none"><li>- 5745~5825 MHz (bandwidth: 20 MHz), 5755~5795 MHz (bandwidth: 40 MHz), 5755 MHz (bandwidth: 80 MHz), 12.20 dBm</li></ul></li></ul>



WPAN Radio (optional)

Bluetooth 4.2 BLE, Class 2 (2402~2480 MHz, 0.00 dBm)  
Bluetooth (BDR/EDR) (2402~2480 MHz, 9.60 dBm)

RFID

NFC (13.56 MHz)

\* Conducted Power (dBm)

WiFi in 5.15~5.25 GHz band="Indoor use only"

## Accessories

Accessories

Battery, Battery Cover, USB cable (Type C),  
Handstrap



- This device can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.
- This device is compliant with the RED article 10.10 requirement because the information is available on the package.
- Please ask your sales representative for the specifications not listed above or for the future upgradeable specifications.



This device is compliant with the RED article 10.10 requirement because the information is available on the package. (Country: United Kingdom)

## Regulatory Articles

- **Article 10(2):** Manufacturers shall ensure that radio equipment shall be so constructed that it can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.
- **Article 10(10):** In cases of restrictions on putting into service or of requirements for authorisation of use, information available on the packaging shall allow the identification of the Member States or the geographical area within a Member State where restrictions on putting into service or requirements for authorisation of use exist. Such information shall be completed in the instructions accompanying the radio equipment. The Commission may adopt implementing acts specifying how to present that information. Those implementing acts shall be adopted in accordance with the advisory procedure referred to in Article 45(2).



## **The battery does not charge properly.**

- Ensure that your device and the charging cable are connected and the charging LED is functioning correctly.
- If the battery does not charge completely, it may be dead or defective. Replace the battery with a 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 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, or charging. 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 a burst battery or 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.



## FCC Cautions

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.

## Part 15.21 Information to user.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## Specific Absorption Rate (SAR) information:

This Mobile Phone meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health.

FCC RF Exposure Information and Statement The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. This device was tested for typical body-worn operations with the back of the handset kept 10 mm for body worn. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 10 mm for body worn. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.



## **Body-worn Operation**

This device was tested for typical body-worn operations. To comply with RF exposure requirements, a minimum separation distance of 10 mm for body worn must be maintained between the user's body and the handset, including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.

## **FCC compliance information**

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.





## Manufacturer

Bluebird Inc.

**Head Office:** (Dogok-dong, SEI Tower 13~14F), 39, Eonju-ro 30-gil, Gangnam-gu, Seoul, Korea, 06292

**Factory:** (SSang-young IT Twin tower-B 7~8F), 531, Dunchon-daero, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea, 13216

- Trade name: Bluebird Inc.
- Trade mark:



**BLUEBIRD**

## 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.

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Name of Product	Touch Mobile Computer
Name of Model	EF501R
Date of Purchase	
Manufacture Number	
Place of Purchase	
Term of Guarantee	1 year from purchase

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## 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

## 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.