

# HyBase RFID Module-3

## User Manual

NANJING MINDRAY  
BIO-MEDICAL ELECTRONICS CO., LTD.



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## WARNING

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- Federal Law (USA) restricts this device to sale by or on the order of a physician or other practitioner licensed by U.S. state law to use or order the use of this device.
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- all installation operations, expansions, changes, modifications and repairs of this product are conducted by Mindray authorized personnel;
- the electrical installation of the relevant room complies with the applicable national and local requirements;
- the product is used in accordance with the instructions for use.

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### **WARNING**

- This equipment must be operated by skilled/trained clinical professionals.
  - It is important for the hospital or organization that employs this equipment to carry out a reasonable service/maintenance plan. Neglect of this may result in machine breakdown or personal injury.
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## Service

Mindray maintains a network of service representatives and factory-trained distributors. Prior to requesting service, perform a complete operational check of the instrument to verify proper control settings. If operational problems continue to exist, contact Mindray service.

In North America contact the Service Department at (800) 288-2121, ext: 8116 for Technical Support or (201) 995-8000 for assistance in determining the nearest field service location.

Please include the instrument model number, the serial number, and a description of the problem with all requests for service.

Any questions regarding the warranty should be directed to the local sales or service representative.

## Company Contact

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# Preface

## Manual Purpose

This manual contains the instructions necessary to operate the product safely and in accordance with its function and intended use. Observance of this manual is a prerequisite for proper product performance and correct operation and ensures patient and operator safety.

This manual is based on the maximum configuration and therefore some contents may not apply to your product. If you have any question, please contact us.

This manual is an integral part of the product. It should always be kept close to the equipment so that it can be obtained conveniently when needed.

## Intended Audience

This manual is geared for clinical professionals who are expected to perform daily operations of the product, maintain and troubleshoot the product and learn how to use the product.

## Illustrations

All illustrations in this manual serve as examples only. They may not necessarily reflect the setup or data displayed on your equipment.

## Conventions

- Italic text is used in this manual to quote the referenced chapters or sections.
- Bold text is used to indicate the screen texts.
- → is used to indicate operational procedures.

## FCC 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.

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

Part §15.21 of the FCC rules states that users must be advised that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 important announcement

## Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## ISED Statement

This device complies with Industry Canada license exempt RSS standard(s). 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. The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B)

This radio transmitter has been approved by Industry Canada to operate with the antenna types listed with the maximum permissible gain 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.

## Radiation Exposure Statement

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

# HyBase RFID Module-3

## Intended Use

The RFID module is intended to achieve module recognition.

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### WARNING

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- Before installing and using the RFID module, be sure to read and fully understand this manual. To use the RFID module safely and effectively, be sure to install and use it strictly as instructed in the manual.
  - The RFID module is to be used for its intended purposes only. Do not use it for other purposes.
  - Be sure to keep the manual at a place nearby the operating table.
  - Be sure to use the accessories on the operating table provided by Nanjing Mindray only. Do not use them on other devices. Otherwise, it may result in personal injury.
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## Specifications

1. FCC ID: 2BHFC-RFID3
2. RFID module (except the adaptor): IPX5
3. AC power: 5V DC
4. Wireless specifications:

Operating frequency	106-154KHz
Modulation mode	AM

## Inspection before Use

The RFID module is maintenance-free. However, wear due to use and aging can compromise its functionality and safety. Check it carefully each time before use. Do not use it if you find any sign of wear and/or damage.

## Use

The two cables in the red box need to be powered by 5 V and 0.2 A DC power. The green wire labeled should be connected to the 5V negative pole. The brown wire labeled should be connected to 5V positive pole.

**Table 2 Definitions of safety notes**

<b>Safety Notes</b>	<b>Meaning</b>
<b>WARNING</b>	Indicates a potential hazard or unsafe practice that, if not avoided, could result in death or serious injury.
<b>CAUTION</b>	Indicates a potential hazard or unsafe practice that, if not avoided, could result in minor personal injury or product/property damage.
<b>NOTE</b>	Provides application tips or other useful information to ensure that you get the most from your product.

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