



MiCor™ A100

User Manual

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Important safety instructions

Cautions

- Prolonged contact may contribute to skin irritation or allergies in some users. If you notice any signs of skin redness, swelling, itchiness, or other skin irritation, please discontinue. Continued use, even after symptoms subside, may result in renewed or increased irritation. If symptoms persist, consult your doctor.
- The device contains electrical equipment that could cause injury if not handled properly.
- Consult your doctor before beginning or modifying any exercise program.
- Consult your doctor before use if you have any pre-existing conditions that might be affected by your use of this device.
- Do not check call notifications or other data on the device's display while driving or in other situations where distractions could be hazardous.
- This device is not a toy. Do not allow children or pets to play with your device. The device contains small components that can be choking hazard.
- Please do not place the device in your bag or expose it to any external weight load, to avoid exceeding the limit of bearable weight of this device.
- The device is with water ingress grade IP27. It is water proof under 1-meter depth of water but should not be worn while swimming and should not be submerged under water.
- Clean and dry your device regularly, particularly in areas in contact with the skin. Use a clean, damp cloth.
- Clean it only with a soft cloth slightly dampened with warm water or a mild soap. Do not wash the device under a faucet.
- Wear your device loosely enough to allow air circulation.
- Use skin care products sparingly on the areas of the skin covered by your device.

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- Take the device off from time to time to clean it and allow for your skin to be uncovered.
 - Do not open the enclosure or disassemble your device.
 - Do not use your device if the display is cracked.
 - Substances in this device and its battery may harm the environment or cause injury if handled and disposed of improperly.
 - Do not subject the device to excessive force, shock, dust, temperature changes, or humidity. Do not expose the unit to strong shocks or vibrations.
 - Do not place your device in a dishwasher, washing machine, or dryer.
 - Do not expose your device to extremely high or low temperatures.
 - Do not use your device in a sauna or steam room.
 - Do not leave your device in direct sunlight for an extended period of time.
 - Do not dispose of your device in a fire. The battery could explode.
 - Do not use abrasive cleaners to clean your device.
 - Do not wear your device while charging it.
 - Do not charge your device while it is wet.
 - Disperse any static electricity from your body before using the unit. To avoid static electricity, use a small metal device (such as keys), cotton cloth, etc. to touch the door, doorknobs, faucets, chair, bet rails, etc. to eliminate static electricity, and then hand touch.
 - Remove your device if it feels warm or hot.
 - Due to printing limitations, the displays shown in this manual may differ from the actual display.
 - The contents of this user guide may not be reproduced without the permission of the manufacturer.

Warning on heart rate measurement



- Do not use with a defibrillator. Users do not apply to the use of regulator.
- Do not use the unit in intensive care units or operating rooms.
- Do not use in the presence of flammable anesthetics, drugs or pressurised oxygen (such as in a hyperbaric chamber, ultraviolet steriliser or oxygen tent).
- Do not take recordings in a location where the unit will be exposed to strong electromagnetic forces, such as near an arc welder, high-power radio transmitter, etc.
- Do not attempt self-diagnosis of the measurement results and analysis. Always consult our doctor.
- Do not take a recording if the electrodes are dirty. Clean them first.
- Do not use for any purpose other than obtaining physiological information.
- This device is not designed or intended for complete diagnosis of cardiac conditions. This device should never be used as a basis for starting or modifying treatment without independent confirmation by medical examination.
- When using this unit in hospitals or other medical facilities, use the unit under the supervision of your doctor.

Built-in battery precautions information

- Your device features a built-in battery, which is not user replaceable.
- Tampering with your device, or attempting to open it, will void the warranty and can result in a safety hazard. The main unit contains no user-serviceable parts.
- Contact the manufacturer's customer services if the device requires servicing.
- Use only the charger cable that shipped with your device to charge the battery.
- Charge the battery using a computer, powered hub, or power supply that is certified by a recognised testing laboratory.
- Charge the battery in accordance with the instructions supplied.

Disposal and recycling information

The symbol on the device or its packaging signifies that this device must be disposed of separately from ordinary household wastes at its end of life. Please kindly be aware that it is your responsibility to dispose of electronic equipment at recycling centres to help conserve natural resources.

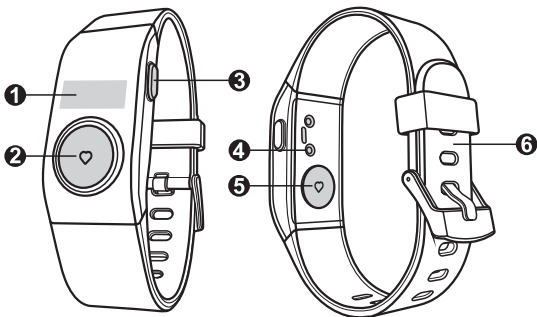
For information about your recycling drop off point, please contact your local related electrical and electronic equipment waste management authority or the retailer where you bought the device.

- Do not dispose of your device with household waste.
- Disposal of the packaging and your device should be done in accordance with local regulations.
- Batteries are not to be disposed of in the municipal waste stream and require separate collection.

Overview

Thank you for purchasing a MioCARE product. This Quick Start Guide guides you through the successful setup of your device and familiarises you with the basic skills of using the device.

Getting to know your device




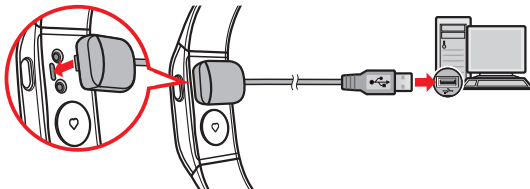
- ❶ OLED screen
- ❷ ECG sensor
- ❸ MODE button

- ❹ Charging connector
- ❺ ECG sensor
- ❻ Straps

Charging the battery

Your device has an internal battery that may not be fully charged when you purchase it. It is recommended to charge the battery for about 1 hour before you start using the device for the very first time. Follow the instructions below to charge the battery.

During charging, the Battery icon () on the screen indicates the battery charge status:



NOTE: This device is intended to be supplied by a power unit that has output rated + 5 V dc / 1.0 A (maximum).

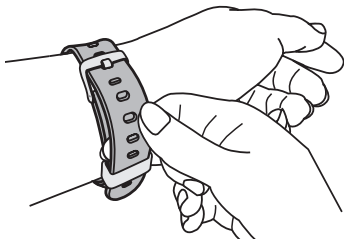
Getting started

Activating the device

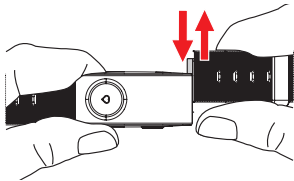
Once the device is connected to the power supply after unpacking, the system activates automatically.

Putting on the device

Putting on the device is like wearing a watch around your wrist. Follow the instructions below to wrap the straps around your wrist and then secure it with the buckle.



The device comes with a set of detachable straps that should be properly assembled before you use it. Follow the instructions below to assemble the straps.



Downloading the App

MiCor A100 App is a free App on the Apple Store. After downloading and installing the App on your phone, you can use it to change the device's settings, view the detailed electrocardiogram, save and manage the ECG data and more functions via your phone.

NOTE: MiCor A100 App supports the mobile device running iOS 8.0 (and above) and Android 5.0 (and above).

Setting the date and time

To make sure that the date and time of your ECG recordings are correct, check the settings before you begin recording.

- Once the device is connected to your phone via the App, the date and time settings of the device will be automatically synchronised with the connected phone.
- You can set the displayed time format as 12-hour or 24-hour via the connected phone.

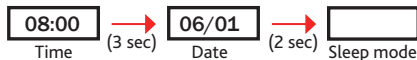
Operating basics

Changing the display mode

Press the MODE button repeatedly to cycle through the display modes: Time & date > ECG data amount > Battery status.

- Time & date


Press the MODE button once to wake up the system and display the current time for 3 seconds and then the date for 2 seconds. The device will automatically enter Sleep mode after 5 seconds of inactivity in time & date display mode.



- ECG data amount

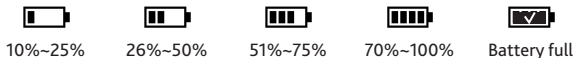
Press the MODE button twice to display the amount of ECG data stored in the device. The device will automatically enter Sleep mode after 5 seconds of inactivity in ECG data amount display mode.




NOTE: The  icon will display and flash on the screen while the ECG memory is full.

- Battery status

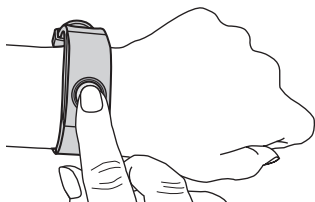
Press the MODE button three times to display the battery status by the following icons. The device will display the FCC ID after 3 seconds of inactivity in battery status display mode, and then enter Sleep mode.



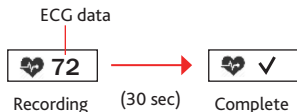
NOTE: The  icon will display and flash on the screen the battery power is less than 10%.

Recording ECG data

You can record and store up to 30 ECG data on the device. Follow the instructions to start recording ECG data.



1. Wear the device on your wrist properly.
2. Press the MODE button to wake up the system from the Sleep mode.
3. Use your finger to touch the ECG sensor on the front panel for 2 seconds. After displaying the ECG data amount and vibrating once, the system enters ECG recording mode.
4. Wait for 3 seconds, and then the system will start recording ECG data.
Keep touching the ECG sensor for about 30 seconds and do not move until the recording is completed. You can check the recording status from the screen.
5. When done, the device will vibrate once and display the complete status on the screen.



Now, you can connect the device to your phone and start synchronisation. Once synchronised, the ECG data will be downloaded to your phone automatically.

NOTE: To obtain a correct ECG recording, please read the followings carefully and be sure that you observe the points each time you take a measurement.

- Make sure that the ECG sensors are directly touching your skin.
- If your finger and skin are dry, wipe them with a damp towel so that they are slightly moist.
- Keep the ECG sensors clean. You can clean the sensor parts by wiping them with a soft cloth or a cotton swab.
- Do not move during measurement. Any movement during measurement can affect the results.
- The ECG recording may be unreliable if the position of your finger is inappropriate during measurement.
- For some individuals measurement may not be possible. If you have problems during measurement, please contact your doctor for advice.

Connecting the device to your phone

Follow the instructions to connect the device to your phone via the App for the first time.

1. Download and install MiCor A100 App on your phone.
2. Make sure Bluetooth is activated and then launch the App.
3. Complete the initial settings including the profile and device settings.
 - Profile: Enter your name, birthday and gender in the fields.
 - Device settings: Select the time format.
4. Press the MODE button on the device so it will be discoverable for 5 seconds.
5. On you phone, select the device to pair and then enter the serial number (printed on the back panel of the device).
6. Once the pairing is completed, the data will be synchronised automatically.

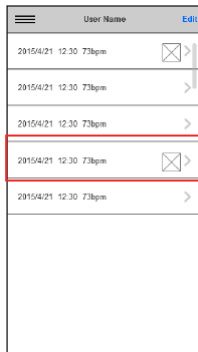
Using the App

MiCor A100 App allows importing data from the device into your phone so that it can be examined and printed. This App features useful functions, such as changing of the scale and range of the ECG data, to better observe specific events which would be very helpful for doctors in making their diagnosis.

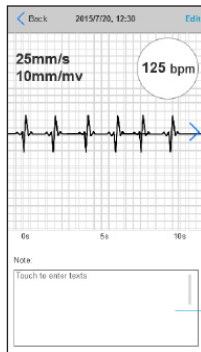
NOTE: The screenshots and other presentations shown in the following sections may differ from the ones generated by the actual product.

Viewing ECG data

After launching and synchronising, you can read the recorded ECG data by selecting the item you wish to view from the ECG data list. The Details screen displays the detailed information of the ECG data.



ECG data list



Details screen

The ECG data list

The ECG data list provides the general information including the User Name (as shown on the title bar) and recorded ECG data (sorted by date and time).

From the ECG data list, you can do one of the following:

- To delete the record, slide the item to the left and then tap **Delete**.

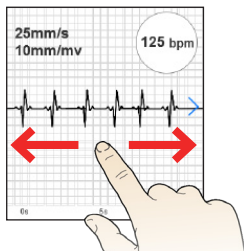


- Tap **Edit** to enter Edit mode, allowing you to:
 - Select the desired records by checking the buttons in front of the items.
 - Select all of the records by tapping **All**.
 - Delete the selected records (or all records) by tapping **Delete**.
 - Select one record and then tap **Export** to send the item by email or print it out.
- Tap **Menu** (☰) to display the menu screen, allowing you to:
 - Select **Sync now** to start synchronisation manually.
 - Select **Profile & Settings** to display the Profile & Settings screen.
 - Select **Add new user** to add a new user for the device.

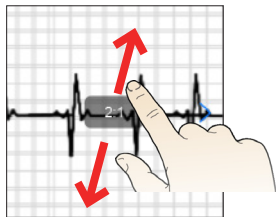
The Details screen

The Details screen contains the detailed information of the ECG data, including the date/time, the ECG waveform and the Note field.

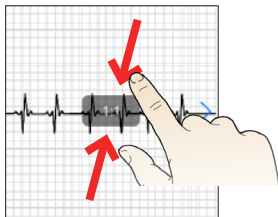
- The waveform area contains the ECG trace, the speed/gain and the average heart rate.
 - You can navigate the screen to view the 30-second ECG trace by dragging your fingertip horizontally across the screen.



- While viewing the ECG trace, you can zoom in or out the waveform area by moving your fingertips apart or together on the screen.



Spread to zoom in




Pinch to zoom out

- Tap on the Note field to take notes for the ECG data.
- Tap **Edit** to display the Edit list, allowing you to:
 - Select **Email** to send the item by email.
 - Select **Print** to print it out.
 - Select **Delete** to delete the record.

Setting up the profile

Adding a user


The App is designed for multiple users that means, for example, you can use the same App to manage individual ECG data of the family members or multiple patients by a doctor.

1. From the ECG data list, tap **Menu** () to display the menu screen.
2. Select **Add new user**.
3. Repeat the process of setting up the Profile and Device Settings.
4. Connect the device.

Now, you can choose the desired user from the User list after launching the App.

Connecting the other devices

You can use the same App to manage the ECG data from different devices.

1. From the ECG data list, tap **Menu** () to display the menu screen.
2. Select **Profile & Settings**.
3. Tap **Device SN** to display the Device info screen.
4. Select **Change device** and then repeat the process of pairing a device.

Device settings

Setting the time format

You can set the displayed time format as 12-hour or 24-hour by disabling or enabling the **24 hour clock** option.

For more information

Support

For initial support, contact your doctor or your local authorised dealer.

Occasionally, the manufacturer may offer free system updates to improve user experience. Please regularly check the website <http://miocare.mio.com/> for more information.

Manufacturer

MiTAC International Corp. Lin Kou Office

No. 200, Wen Hwa 2nd Rd., Kuei Shan Dist., Taoyuan City 33383, Taiwan (R.O.C.)



Safety precautions

About charging

- Use only the charger supplied with your device. Use of another type of charger may result in malfunction and/or danger.
- Use a specified battery in the equipment.

About the charger

- Do not use the charger in a high moisture environment. Never touch the charger when your hands or feet are wet.
- Allow adequate ventilation around the charger when using it to operate the device or charge the battery. Do not cover the charger with paper or other objects that will reduce cooling. Do not use the charger while it is inside a carrying case.
- Connect the charger to a proper power source. The voltage requirements are found on the product case and/or packaging.
- Do not use the charger if the cord becomes damaged.
- Do not attempt to service the unit. There are no serviceable parts inside. Replace the unit if it is damaged or exposed to excess moisture.

About the battery

CAUTION! This unit contains a non-replaceable internal Lithium Ion battery. The battery can burst or explode, releasing hazardous chemicals. To reduce the risk of fire or burns, do not disassemble, crush, puncture, or dispose of in fire or water.

- Use a specified battery in the equipment.
- Important instructions (for service personnel only)
 - Caution! Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
 - Replace only with the same or equivalent type recommended by the manufacturer.
 - The battery must be recycled or disposed of properly.
 - Use the battery only in the specified equipment.

Caring for your device

Taking good care of your device will ensure trouble-free operation and reduce the risk of damage.

- Keep your device away from excessive moisture and extreme temperatures.
- Avoid exposing your device to direct sunlight or strong ultraviolet light for extended periods of time.
- Do not place anything on top of your device or drop objects on your device.
- Do not drop your device or subject it to severe shock.
- Do not subject your device to sudden and severe temperature changes. This could cause moisture condensation inside the unit, which could damage your device. In the event of moisture condensation, allow the device to dry out completely before use.
- The screen surface can easily be scratched. Avoid touching it with sharp objects. Non-adhesive generic screen protectors designed specifically for use on portable devices with LCD panels may be used to help protect the screen from minor scratches.

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- Never clean your device with it powered on. Use a soft, lint-free cloth to wipe the screen and the exterior of your device.
 - Do not use paper towels to clean the screen.
 - Never attempt to disassemble, repair or make any modifications to your device. Disassembly, modification or any attempt at repair could cause damage to your device and even bodily injury or property damage and will void any warranty.
 - Do not store or carry flammable liquids, gases or explosive materials in the same compartment as your device, its parts or accessories.
 - To discourage theft, do not leave the device and accessories in plain view in an unattended vehicle.
 - Overheating may damage the device.

Federal Communication Commission Interference Statement

For regulatory identification purposes, your device is assigned a model number of N507.



FCC ID: P4Q-N507

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.

This device 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.

FCC Caution

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

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

End users must follow the specific operating instructions for satisfying RF exposure compliance.

Revision: Roo
(12/2015)

Disclaimer

Specifications and documents are subject to change without notice. The manufacturer does not warrant this document is error-free. The manufacturer assumes no liability for damage incurred directly or indirectly from errors, omissions, or discrepancies between the device and the documents.

Notes

Not all models are available in all regions.

Depending upon the specific model purchased, the colour and look of your device and accessories may not exactly match the graphics shown in this document.

The screenshots and other presentations shown in this document are for reference only. They may differ from the actual screens and presentations generated by the actual product.