Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

CONTEC PM20

CONTEC PM20 Portable ECG/EKG Monitor User Manual

Model: PM20 | Brand: CONTEC

1. Introduction

This manual provides essential instructions for the safe and effective operation of your CONTEC PM20 Portable ECG/EKG Monitor. Please read this manual thoroughly before using the device and retain it for future reference. The CONTEC PM20 is designed for personal use to record and monitor heart rhythm and rate.

1.1 Key Features

- **2.4-Inch Color TFT-LCD Display:** Provides a clear and bright screen for easy ECG waveform viewing and real-time results.
- **One-Touch ECG Measurement:** Enables instant recording of one-lead or six-lead ECG by simply touching the device with your finger.
- **Instant & Accurate Results:** Delivers quick analysis and conclusions immediately after measurement.
- **Rechargeable Lithium Battery:** Built-in battery supports recording up to 500 ECG cases on a full charge.
- **Bluetooth Data Transmission:** Facilitates easy transfer of ECG data to compatible devices for further review and storage.
- **Cloud Data Storage:** ECG records can be securely saved on the cloud for long-term access, analysis, and tracking.
- **Dynamic History Review:** Allows viewing historical ECG data anytime with smooth and interactive playback.
- **Printable ECG Reports:** Supports printing stored ECG data for clinical review and diagnosis support.

1.2 What's in the Box

- CONTEC PM20 ECG Monitor
- Power Cord
- User Manual (this document)



Image 1.1: The CONTEC PM20 Portable ECG Monitor, highlighting its compact design and display.

2. Safety Information

Please observe the following safety precautions to ensure proper operation and to prevent injury or damage to the device:

- Do not use this device as a sole basis for medical diagnosis or treatment. Consult a healthcare professional for interpretation of ECG results.
- Keep the device dry. Avoid exposure to water or other liquids.
- Do not use the device near strong electromagnetic fields (e.g., MRI machines, microwave ovens).
- Keep out of reach of children.
- Use only the provided power cord for charging.
- Do not disassemble or attempt to repair the device yourself. Contact authorized service personnel.
- Ensure the skin is clean and dry before taking a measurement for optimal contact.

3. Product Overview

The CONTEC PM20 features a user-friendly design with a clear display and intuitive controls.

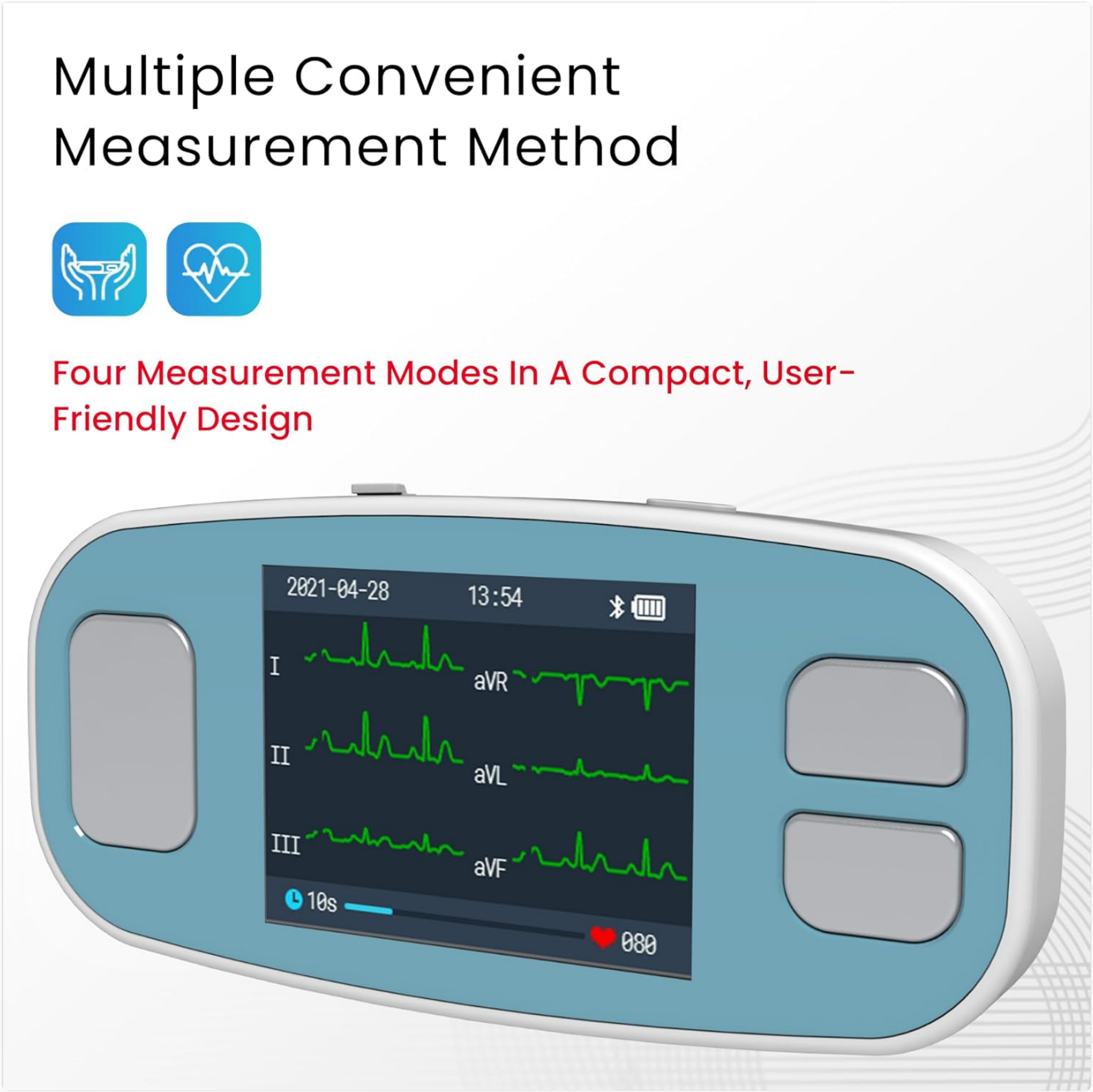


Image 3.1: Front view of the CONTEC PM20, illustrating its display and primary control buttons.

3.1 Device Components

The device typically includes:

- **ECG Electrodes:** Integrated into the device for direct skin contact.
- **2.4" Color TFT-LCD Display:** Shows real-time ECG waveforms, heart rate, and measurement status.
- **Control Buttons:** For power, start/stop measurement, and navigation.
- **USB Port:** For charging and data transfer to a PC.
- **Bluetooth Module:** For wireless data transmission to a mobile application.

4. Setup

4.1 Charging the Device

1. Connect the provided power cord to the USB port on the CONTEC PM20.
2. Plug the other end of the power cord into a compatible USB power adapter (not included) or a computer's USB port.
3. The battery indicator on the display will show charging status. A full charge typically takes approximately 2-3 hours.
4. Disconnect the device once fully charged.

4.2 Initial Power-On

1. Press and hold the power button (usually located on the side or front) for a few seconds until the display turns on.
2. The device will perform a self-check and display the main interface.

4.3 Mobile App Installation and Pairing

To utilize cloud storage and advanced features, install the official CONTEC mobile application on your smartphone or tablet.

1. Search for the "CONTEC ECG" or similar official app in your device's app store (e.g., Google Play Store, Apple App Store).
2. Download and install the application.
3. Enable Bluetooth on your mobile device.
4. Open the CONTEC ECG app and follow the on-screen instructions to pair with your PM20 monitor. The device name will typically appear as "PM20-XXXX".
5. Once paired, the app will confirm the connection, and you can begin transferring data.

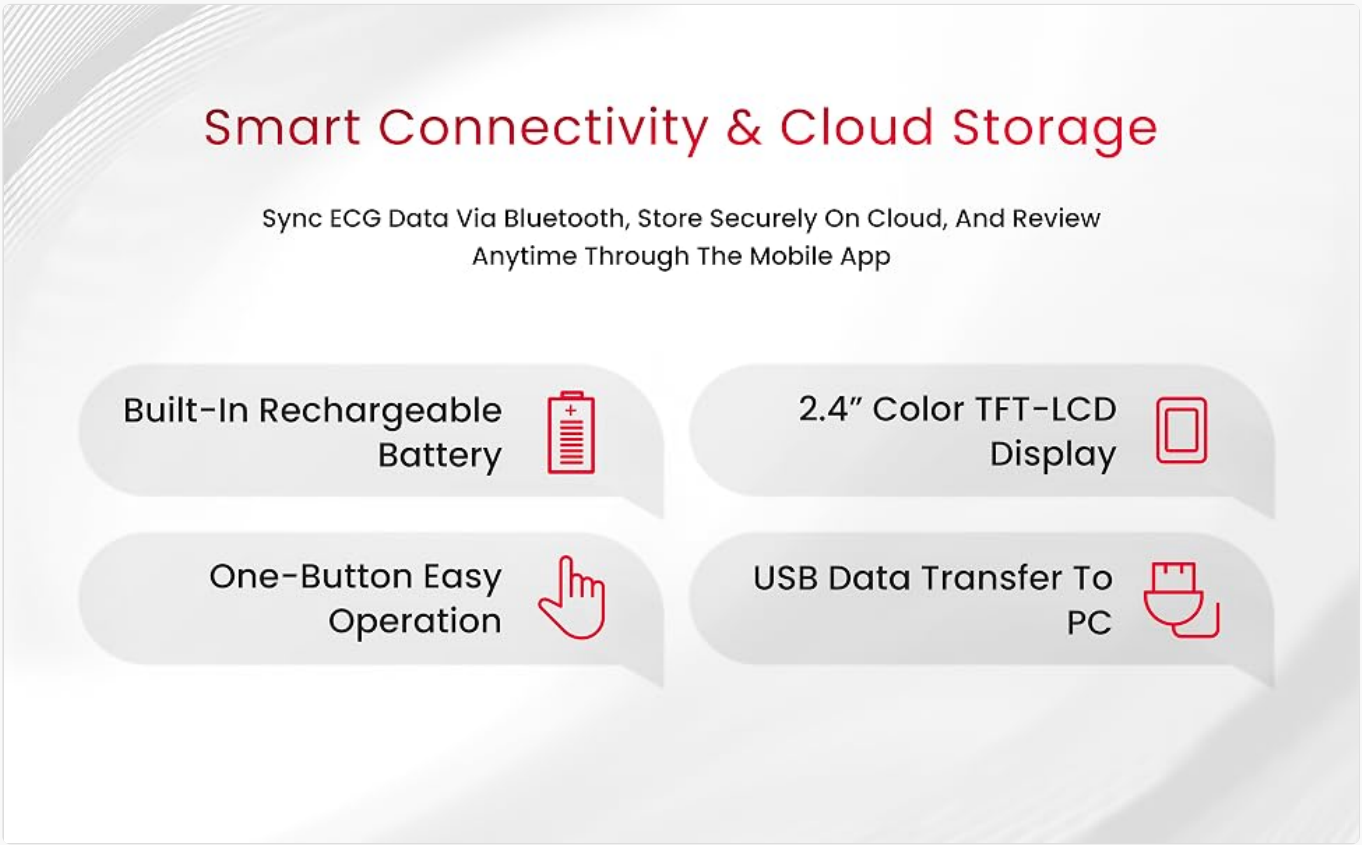


Image 4.1: Illustration of the CONTEC PM20's smart connectivity, including Bluetooth data transmission and cloud storage capabilities.

5. Operating Instructions

The CONTEC PM20 supports multiple measurement methods for capturing ECG data.

5.1 Preparing for Measurement

- Ensure your skin is clean and dry where the electrodes will make contact. Avoid applying lotions or oils.
- Sit or lie down in a relaxed position. Avoid movement or talking during the measurement.
- Ensure the device is sufficiently charged.

5.2 Measurement Methods

The PM20 offers four primary methods for ECG measurement:

Technical Specifications





Model	PM20	PM10
Display	2.4" Color TFT-LCD	1.77" Color TFT-LCD
ECG Leads	Standard 6 Leads (I, II, III, AVR, AVL, AVF)	Single-Lead ECG
Memory Capacity	Up To 500 Records	Up To 500 Records
Heart Rate Range	30–250 Bpm	30–250 Bpm
Heart Rate Accuracy	±1 Bpm Or ±1%	±1 Bpm Or ±1%
Instant ECG Result	Yes	Yes
Mobile App Support	Yes	No
CMRR	≥60 DB	≥60 DB
Waterproof Level	IP22	IP22
Scanning Speed	25 Mm/S ±5%	25 Mm/S ±5%
Dimensions	122 × 56 × 17 Mm	100 × 45 × 15 Mm
Weight	84 G	60 G

Image 5.1: Visual guide to the four available ECG measurement methods with the CONTEC PM20.

1. **Hand-to-Hand (Lead I):** Hold the device with both hands, ensuring firm contact with the electrodes.
2. **Hand-to-Leg (Lead II/III):** Place one electrode on your hand and the other on your leg (e.g., right hand to left leg).
3. **Chest Measurement:** Place the device directly on your chest, ensuring good skin contact.

4. **Finger-to-Finger:** Hold the device with fingers from both hands making contact with the electrodes.

For 6-lead ECG measurements, specific electrode placements are required. Refer to the on-screen prompts or the mobile app for detailed guidance on electrode placement for each lead (I, II, III, aVR, aVL, aVF).

5.3 Performing a Measurement

1. Power on the device.
2. Select your desired measurement method.
3. Place the device electrodes firmly against your skin according to the chosen method.
4. Press the measurement button (often the main central button).
5. Remain still and quiet during the measurement. The ECG waveform will be displayed in real-time.
6. Once the measurement is complete (typically 30 seconds to 1 minute), the device will display the results and analysis.

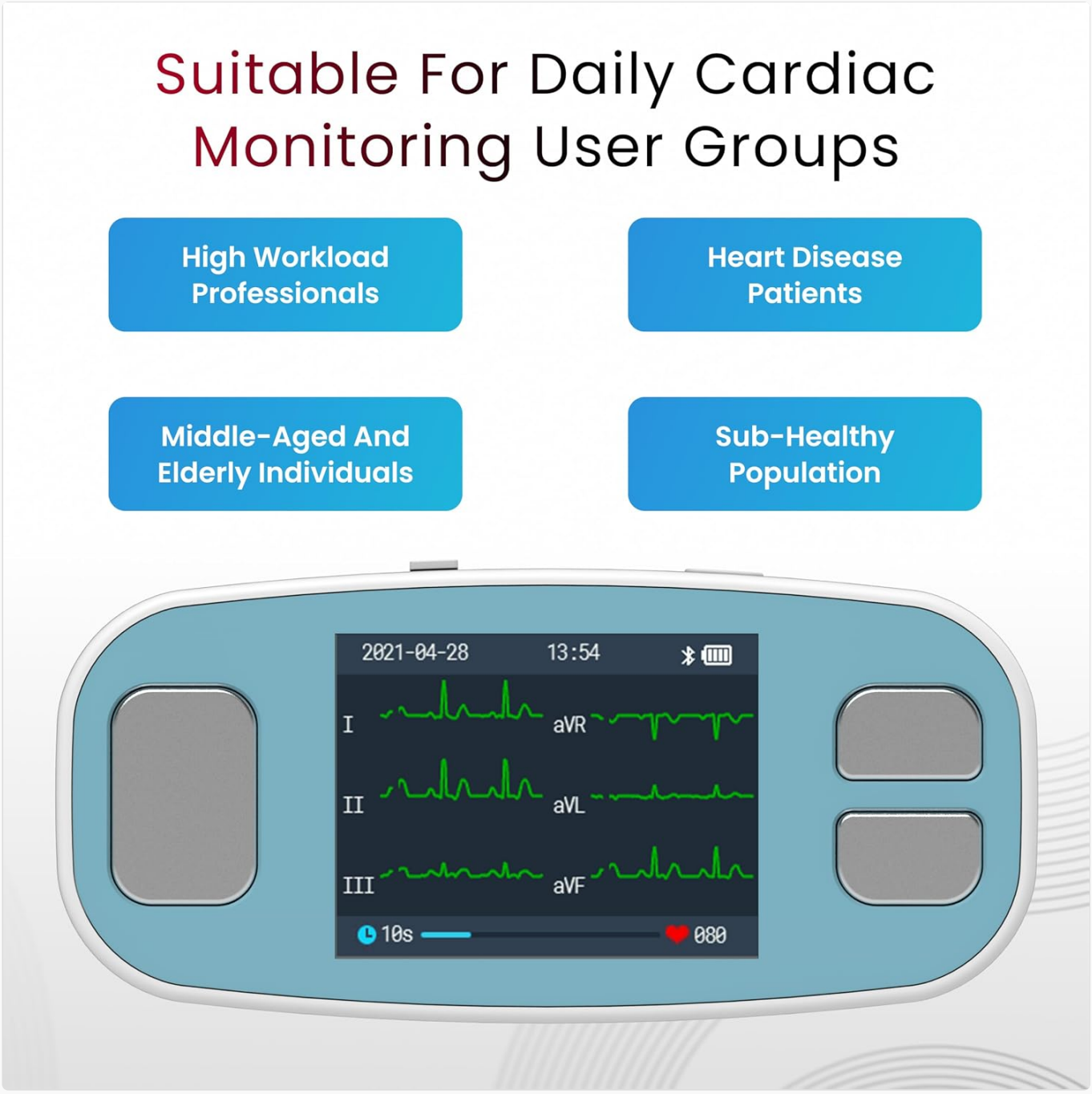


Image 5.2: The CONTEC PM20 in operation, demonstrating its ability to display multiple ECG leads simultaneously.

5.4 Data Transfer and Review

- **To Mobile App:** Ensure your device is paired via Bluetooth. Open the CONTEC ECG app, and recorded data will automatically sync or can be manually transferred.
- **To PC:** Connect the device to your computer using the USB cable. The device may appear as a removable drive, or you may need specific software (refer to CONTEC's website for PC software).
- **Cloud Storage:** Data synced to the mobile app can be uploaded to the cloud for secure storage and access from multiple devices.

6. Maintenance

6.1 Cleaning

- Wipe the device surface and electrodes with a soft, damp cloth after each use.
- Use a mild disinfectant if necessary, but avoid harsh chemicals or abrasive cleaners.
- Do not immerse the device in water or sterilize it with high temperatures.

6.2 Storage

- Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.
- Keep it in its original packaging or a protective case when not in use.

6.3 Battery Care

- Charge the device regularly, even if not in frequent use, to maintain battery health.
- Avoid completely draining the battery before recharging.

7. Troubleshooting

If you encounter issues with your CONTEC PM20, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	Low battery; device malfunction.	Charge the device for at least 30 minutes. If it still doesn't power on, contact support.
Poor ECG signal or no waveform.	Poor skin contact; dry skin; movement during measurement; electromagnetic interference.	Ensure electrodes are firmly against clean, moist skin. Remain still. Move away from electronic devices.
Bluetooth pairing failed.	Bluetooth not enabled; device too far; app issue.	Ensure Bluetooth is on for both devices. Bring devices closer. Restart the app and the PM20.
Data not syncing to cloud.	No internet connection; app not logged in; cloud service issue.	Check internet connection. Log into the app. Try syncing again later.

If the problem persists, please contact CONTEC customer support.

8. Specifications

Technical specifications for the CONTEC PM20 Portable ECG/EKG Monitor:

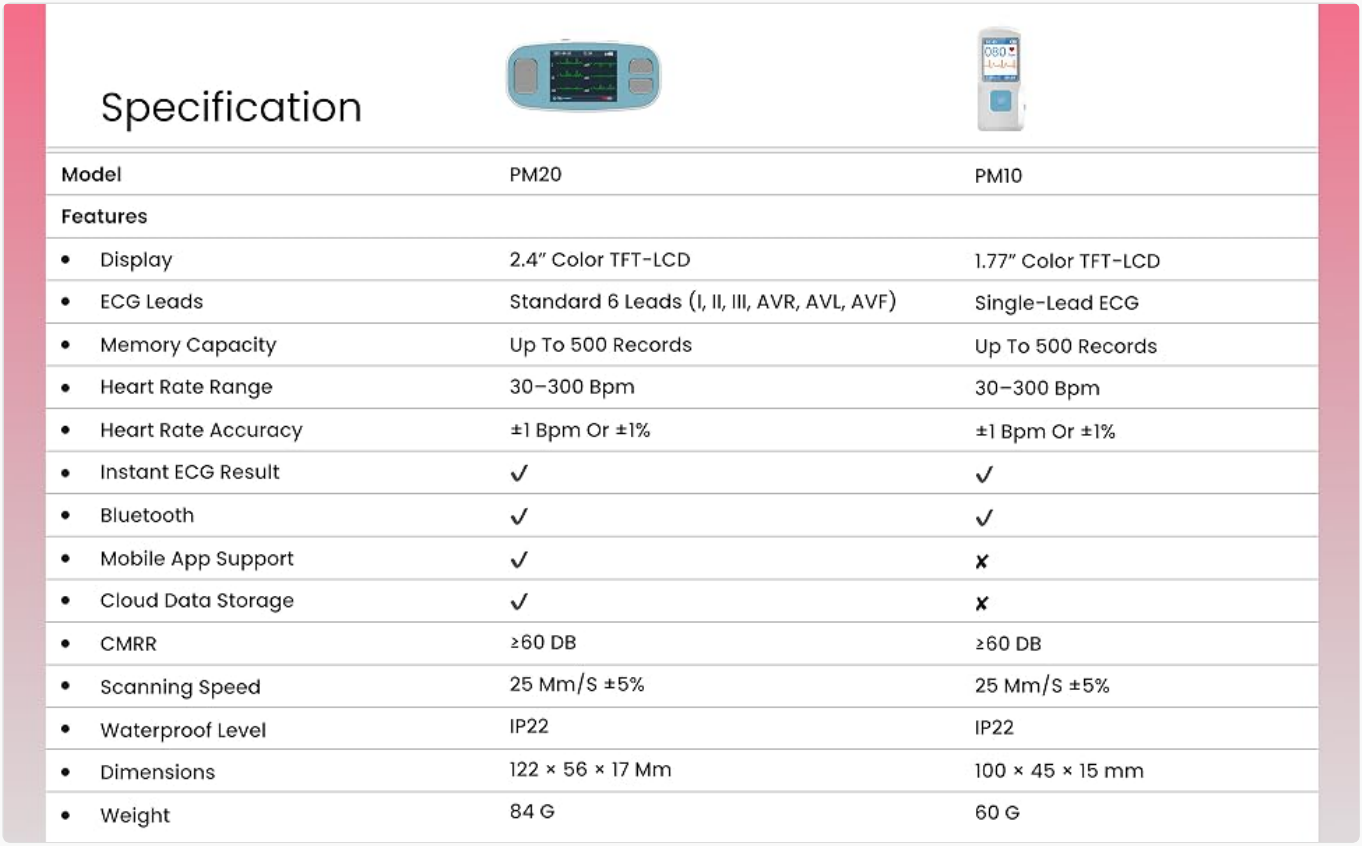


Image 8.1: Detailed technical specifications for the CONTEC PM20, including a comparison with the PM10 model.

Feature	Specification (PM20)
Model	PM20
Display	2.4" Color TFT-LCD
ECG Leads	Standard 6 Leads (I, II, III, AVR, AVL, AVF)
Memory Capacity	Up to 500 Records
Heart Rate Range	30-250 Bpm
Heart Rate Accuracy	±1 Bpm Or ±1%
Instant ECG Result	Yes
Mobile App Support	Yes
CMRR	≥60 DB
Waterproof Level	IP22
Scanning Speed	25 Mm/S ±5%
Dimensions (LxWxH)	122 × 56 × 17 Mm

Feature	Specification (PM20)
Item Weight	84 g
Country of Origin	China
Manufacturer	Contec Medical Systems Co., Ltd

9. Warranty and Support

9.1 Warranty Information

For warranty details, please refer to the warranty card included with your product packaging or visit the official CONTEC website. The warranty typically covers manufacturing defects for a specified period from the date of purchase.

9.2 Customer Support

If you require technical assistance, have questions about the device, or need to report a problem, please contact CONTEC customer support:

- **Manufacturer:** Contec Medical Systems Co., Ltd
- **Importer (India):** Contec Medical Systems Healthcare India Private Limited, No B14, Guindy Industrial Estate, Guindy, Chennai- 600032
- **Website:** www.contecmed.com (Please check for regional support contact information)
- **Online Resources:** Check the CONTEC website for FAQs, software updates, and additional support documents.

© 2026 CONTEC. All rights reserved. Information in this manual is subject to change without notice.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B0GKMYJY4C

More documents and user manuals: **https://manuals.plus/**