



TELTOHEART

Smart heart monitoring wristband with medical-grade 6-lead ECG recording, precise detection of atrial fibrillation, and continuous heart rate measurement.



KEY FEATURES AND VALUES



MEDICAL INSTITUTION

- ◆ Offer new telemedicine services
- ◆ Save time with remote consultations
- ◆ Detect heart disorders faster with new technology
- ◆ Continuous AFib burden monitoring (coming soon)
- ◆ ECG recording at home
- ◆ Access patient history and latest medical data

DISTRIBUTOR

- ◆ Unique remote medical solution
- ◆ Remote device diagnostics and FOTA
- ◆ Billing system



END USER

- ◆ Accurate heart monitoring on the go
- ◆ Discreet, user-friendly device
- ◆ Perform medical-grade ECG anytime and anywhere
- ◆ Constant AFib monitoring with patented algorithm
- ◆ Real-time heart health notifications
- ◆ Share heart data remotely with your doctor
- ◆ Receive remote consultations from your doctor

KEY FEATURES AND VALUES



Alerts and notifications



Easy control



Patented Afib detection



Constant heart rate monitoring



6-lead ECG

ALERTS AND NOTIFICATIONS

Constant monitoring of heart rate to instantly notify the user to record an ECG in case of any discrepancies.

CONTINUOUS HEART RATE MONITORING

PPG sensors allowing for timely detection of changes in blood circulation and continuous monitoring of heart rate.

ATRIAL FIBRILLATION DETECTION

Patented algorithm with high specificity in detecting atrial fibrillation.

6-LEAD ECG RECORDING

High precision, medical-grade electrocardiogram recording for accurate and timely diagnosis.

BODY

Dimensions (Width x Length x Height) in mm:	40.5 (1.6") x 47 (1.9") x 14.7 (0.6")
Weight:	52 g
Chip:	nRF5340 2x ARM Cortex M33 cores for application and network
Platform (OS):	Zephyr RTOS

DISPLAY

Brightness:	250 NITS
Resolution:	240 x 240 px
Type:	LCD TFT
Size:	1.3"
Cover lens:	Corning gorilla glass 3
Surface hardness:	>8 H
Display area:	547.56 sq mm

TELTOHEART MEMORY

Capacity:	128 Mb
-----------	--------

CONNECTIVITY

Bluetooth:	5.3
------------	-----

BLUETOOTH RADIO PERFORMANCE

Operating frequency:	2402 MHz – 2480 MHz
Max. output power:	3 dBm

FEATURES

- ECG sensors for electrocardiogram
- PPG sensors for AFib detection
- Heart rate monitoring
- Low/High heart rate
- Water resistant 1 m (for 30 minutes)
- Protection level against ingress of solid objects: IP 67

POWER SUPPLY

Build-in rechargeable Li-Po battery (not replaceable by the user):	410 mAh 1.56 Wh
Charging voltage:	5 V
Operating voltage:	• Internal Battery 3.8 V • External power supply 5 V
Max. Input current:	0.5 A

SENSORS AND COMPONENTS

- Accelerometer
- Gyroscope

BUTTONS

Side button (On/off, Restart, Back)

STRAPS

The wristband with an electrode is made of silicone rubber with an integrated stainless-steel electrode

Strap material: Silicone

AVAILABLE STRAP SIZES

S, M, L

Strap size depends on purchased set.

SUPPORTED PERIPHERALS

Accessories: TeltoHeart charging dock

- Compatibility with other manufacturer accessories:**
- Any CE marked wall charger with 5 V/1A output and USB type-A connector
 - Any CE certified USB-A to USB-C cable
 - Any smartphone operating on Android OS version 10 or above with Google play store service.
 - Any smartphone using iOS version 14 or above

Compatibility with mri or ct was not checked and use of device in mri or ct environment is prohibited

Bluetooth compatibility: Devices that use Bluetooth v5.0 or later in 2.4 GHz (2.402 – 2.480 GHz) band and SMP protocol are compatible with the device

CONDITIONS FOR USE

Operation temperature range: -10 °C ~ +45 °C

Charging temperature range: 0 ~ +45°C

Storage temperature range:

- 1 Month: -20 ~ +35 °C
- 6 Months: -20 ~ 30 °C

PPG/ECG MEASUREMENTS SPECIFICATIONS

PPG features Continuous heart rate and atrial fibrillation monitoring

ECG features Electrocardiogram (ECG) measurement: 6 leads.

ECG electrode location Bottom surface, top upper surface, wrist band.

ECG electrodes Lead I and Lead III (measured). Lead II and augmented aVL, aVR, aVF (calculated).

ATRIAL FIBRILLATION

Measurement method Non-invasive

Technology Bio-optical (photoplethysmography, PPG), 6-lead electrocardiography (ECG).

CERTIFICATES

Approved CE/RED, UKCA, FCC, IC, MDR

Pending FDA