

PCA 300 12-Lead ECG Solutions



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Conventional ECG v.s. PCA 300



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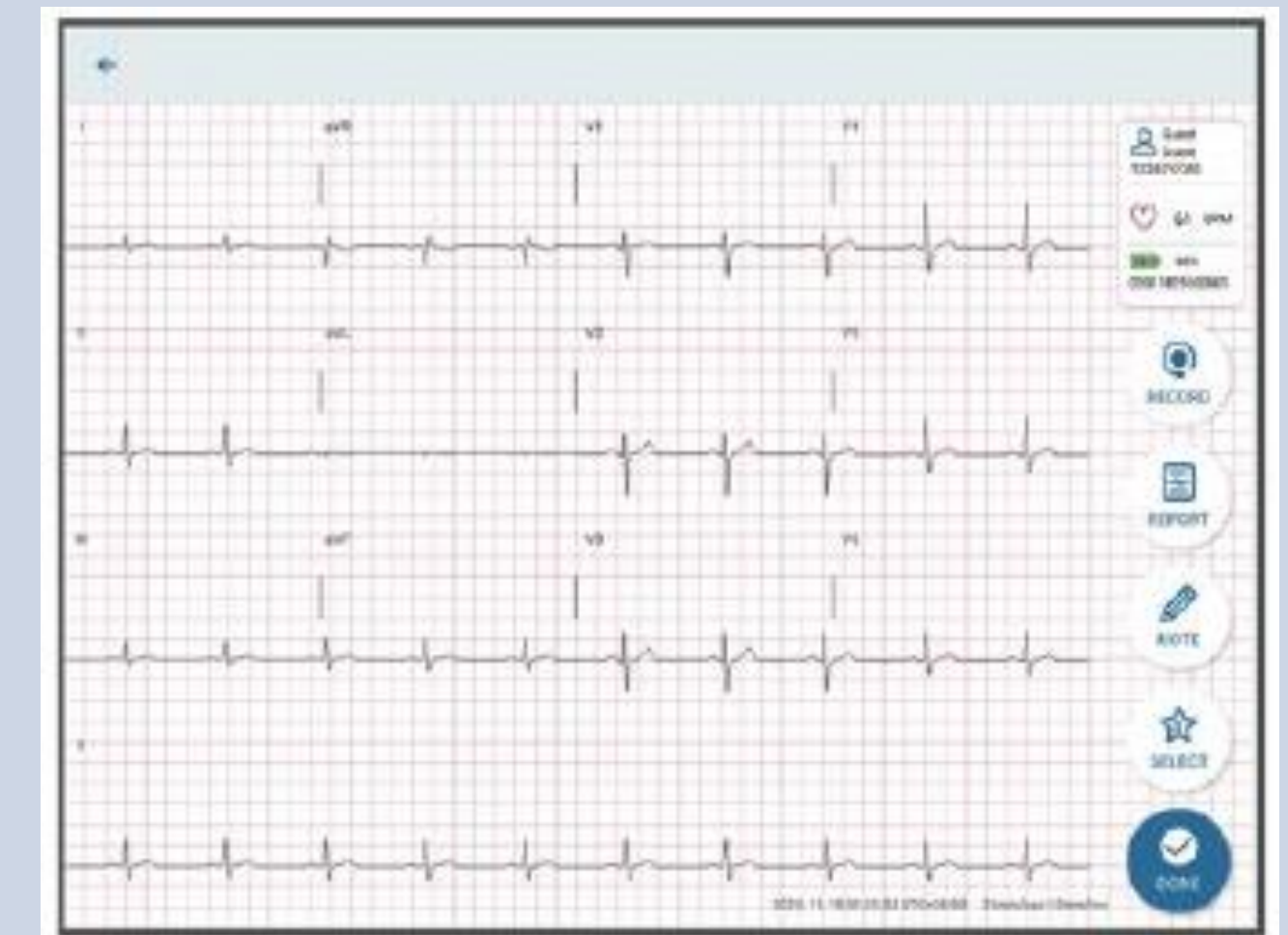
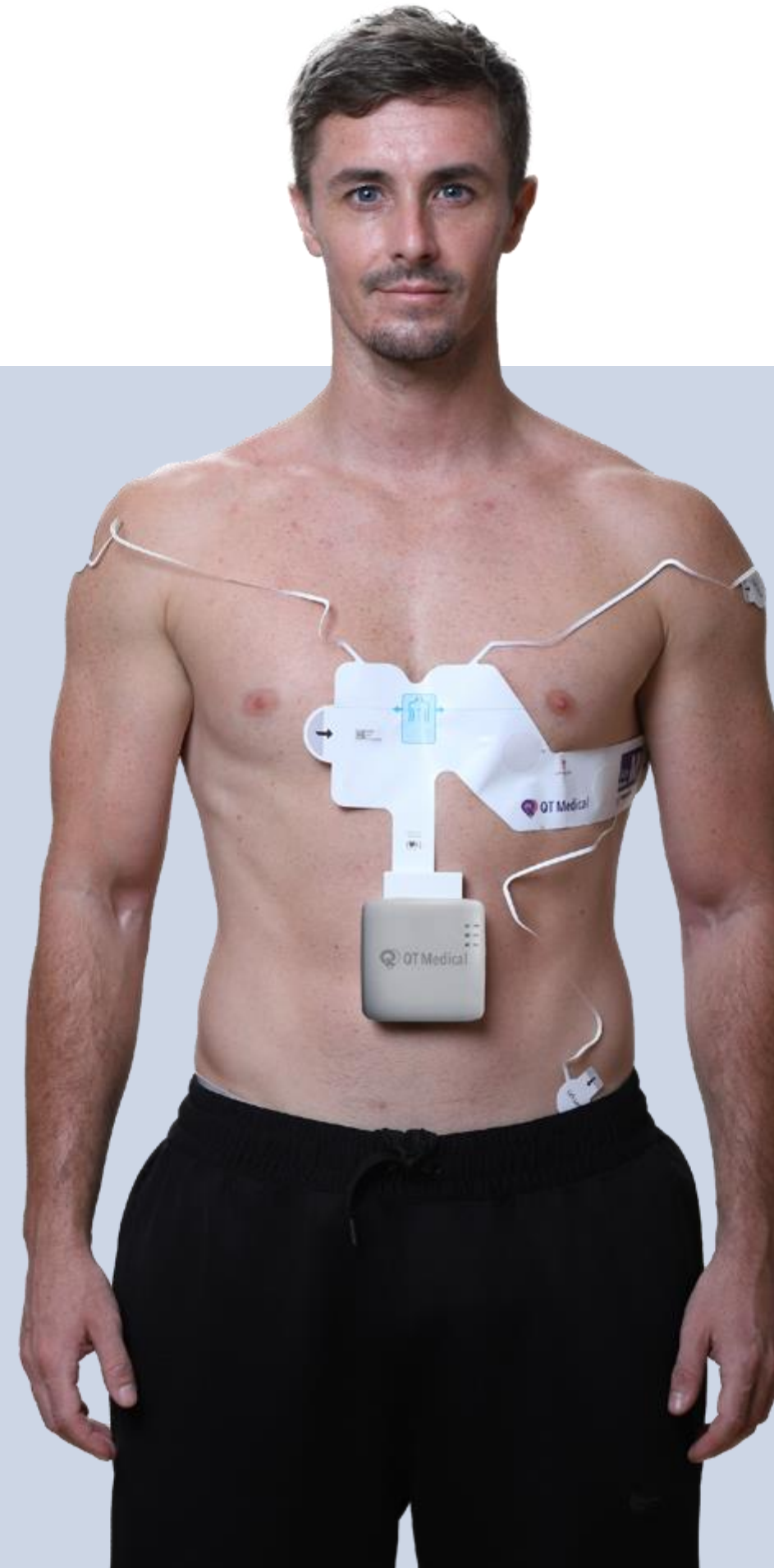
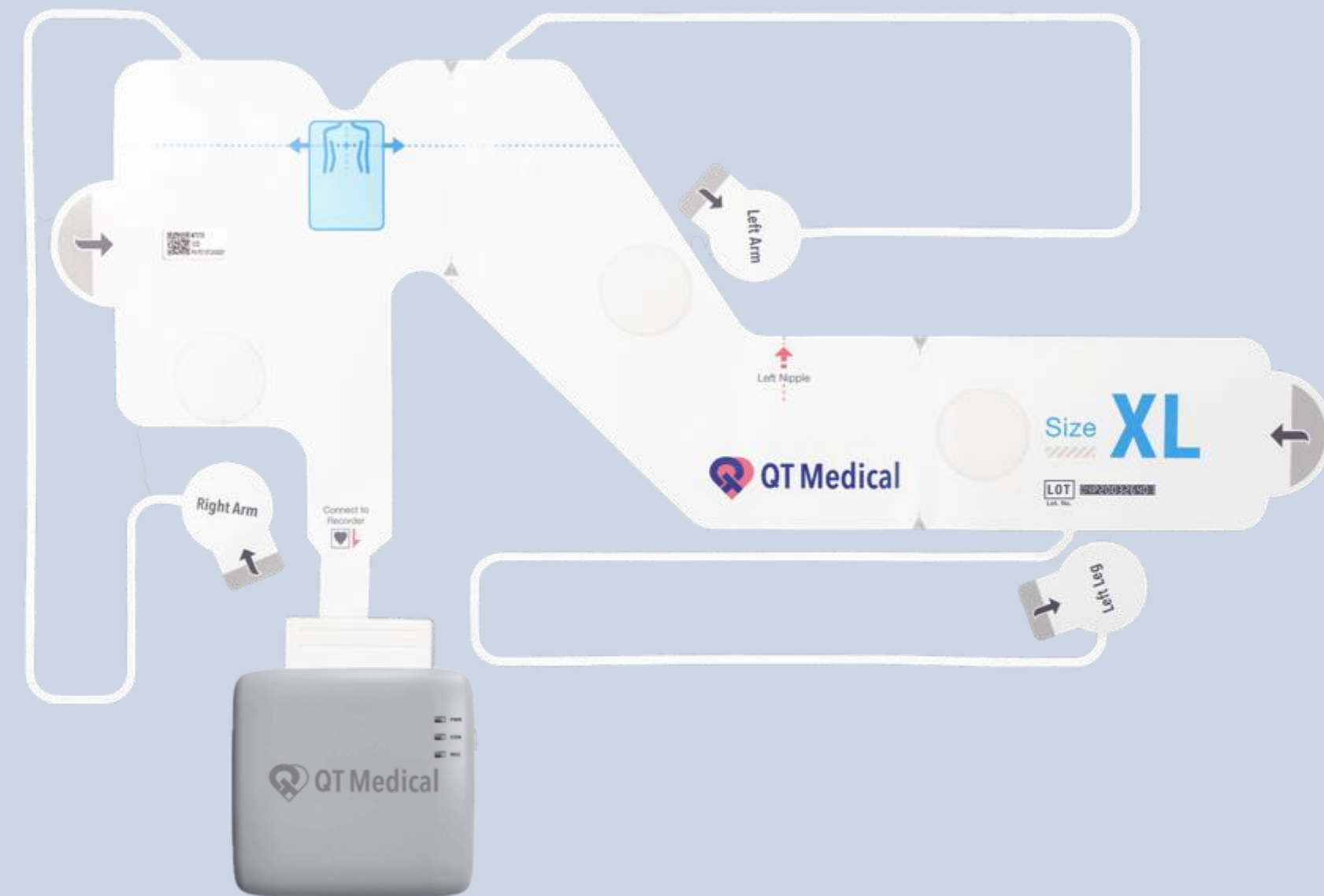
Traditional ECG



PCA 300



PCA 300 – Optimized ECG solution



PCA 300 is the standard, professional Grade 12-lead ECG

	PCA 300 	Philips TC70 
Size	Pocket size / 67g	On a cart / 27kg
Cloud	Yes	No
Lead Placement	70% faster	
Patient's preference	87%	13%
LAYPEOPLE USE	 	

PCA 300 is a Professional Grade ECG

PCA 300 Specifications	
Leads	12
Recording format	10-sec standard resting 12-lead ECG
Connectivity	Bluetooth 4.0 dual mode
Output Sampling Rate	1000 Hz
Button	1 Power button
Battery	Rechargeable. 0% to 90% in 1.5 hours
Connector	QHeart connector
Operating Time	≈ 17 hrs of continuous use (new battery), over 300 ECG tests
Ingress Protection	IP22
Weight	2.4 oz / 67 g
Dimensions	2.84" x 2.68" x 0.70" 72mm x 68mm x 18mm

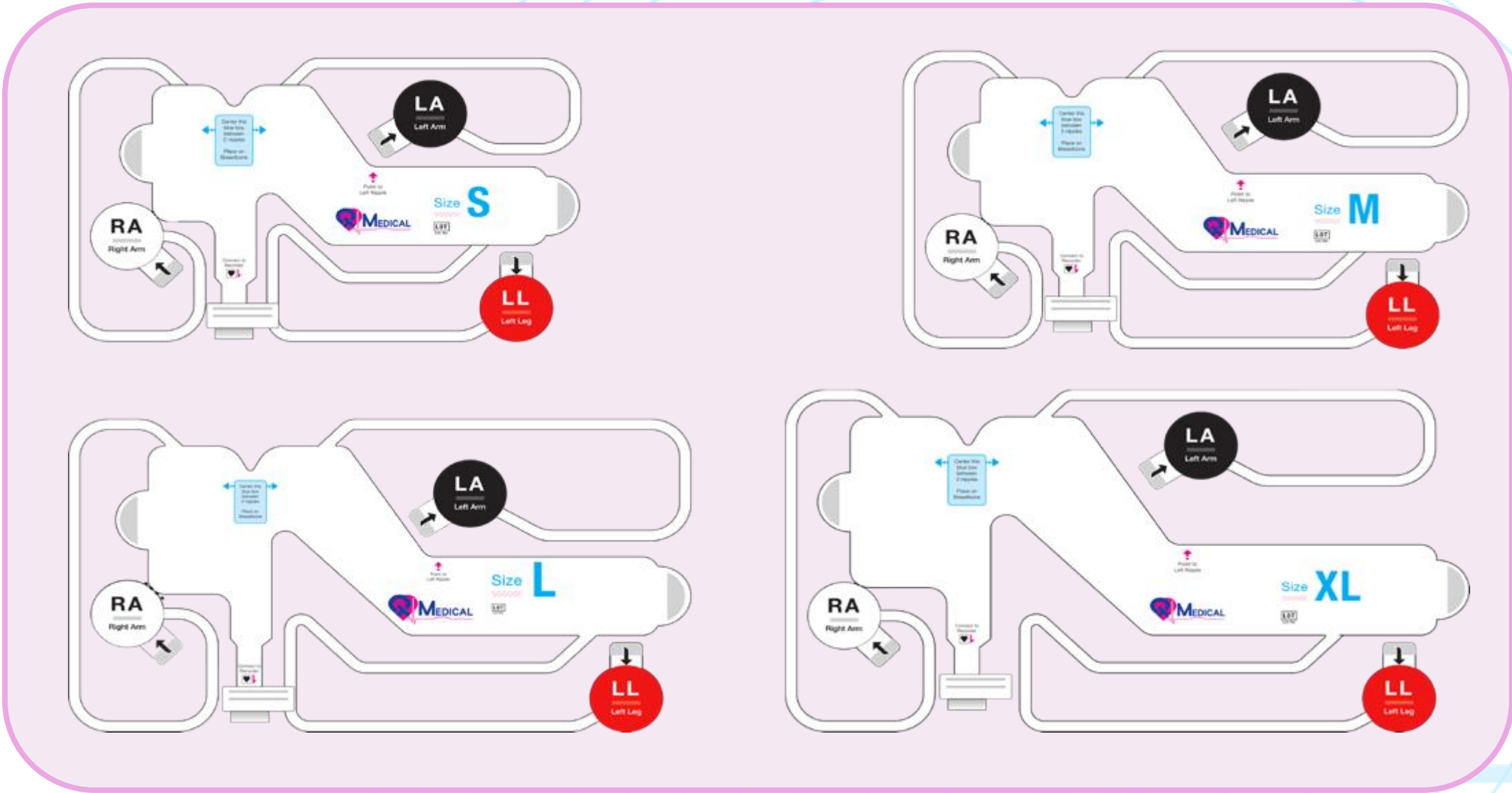
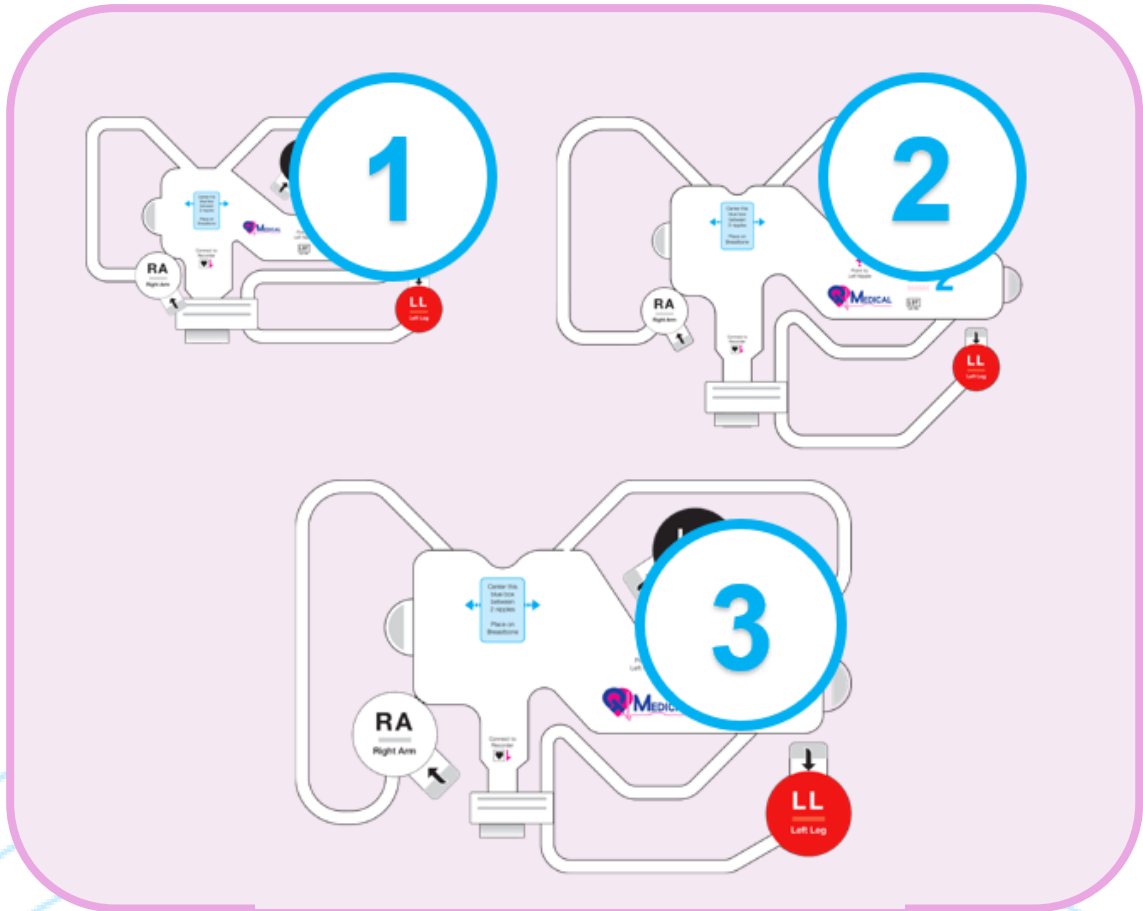


QHeart[®] Sensor - Patented Electrodes

QHeart Sensor Specifications	
Lead Electrodes	10
Lead Placement	70% Faster
Size	Adult - S, M, L, XL Pediatric - 1, 2, 3
Indication	Single patient use, adult and pediatric
Shelf Life	6 years
Weight	<2.1 oz / 60g
Environmental Conditions	Operating: +41°F ~ +86°F / +5° ~ 30°C Storage and Transportation: +41°F ~ +86°F / +5° ~ 30°C
Laypeople Use	✓

Pediatric – Sizes 1, 2, 3

Adult – Size S, M, L, XL



How to record an ECG with PCA 300



<https://vimeo.com/447071441>

Sizing Guide

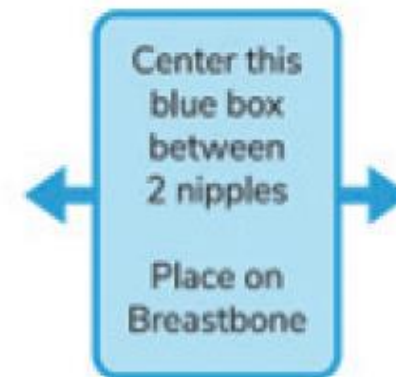
Adult– Sizes S, M, L, XL



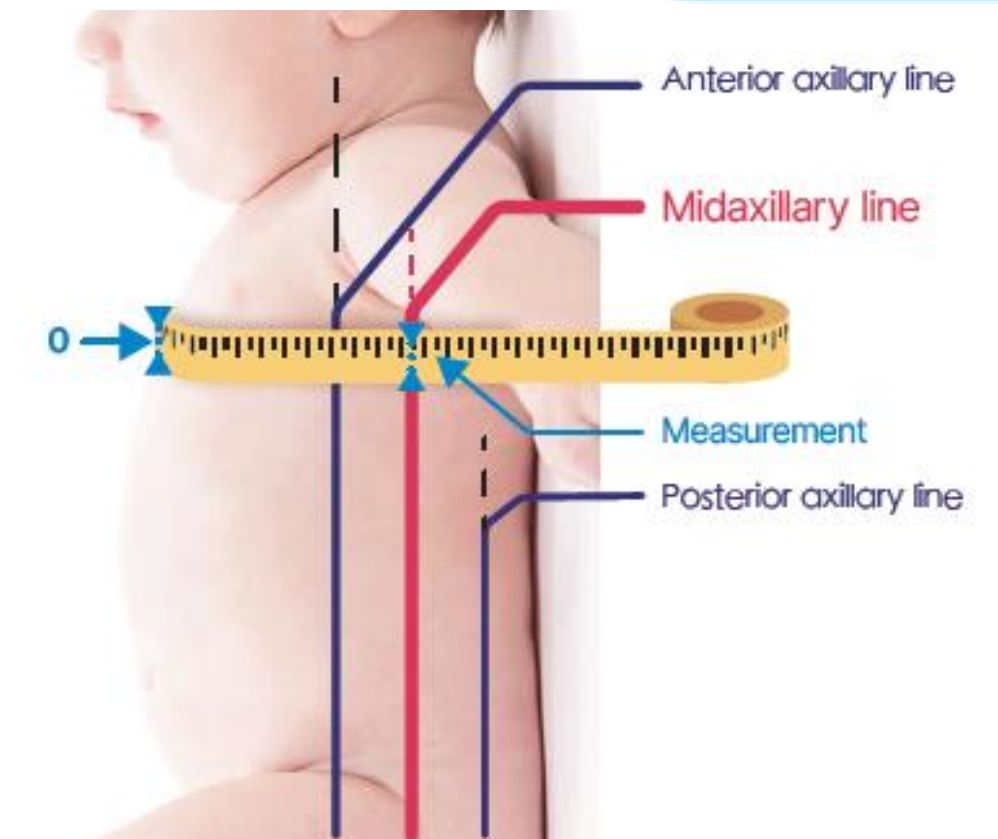
Determining Electrode Strip Size Using This **CARDIO** Sizing Guide

- 1 CLEAR** ▶ **Males:** take off the shirt. **Females:** leave only bra on.
 - 2 ATTACH** ▶ Position this blue box on top of the chest bone (sternum), at the level between two nipples.
 - 3 ROUND** ▶ Let the long end of sizing guide go around the left chest. **Females:** sizing guide should go under the left breast.
 - 4 DOUBLE-CHECK** ▶ Make sure the sizing guide contacts the skin well throughout with no buckling.
 - 5 INSPECT** ▶ Mid-axillary line (MAL) can be drawn from the center of left armpit. The size of electrode strip is determined by where MAL crosses the sizing guide. Have someone to help you to look for MAL, or use a wall mirror to look by yourself.
- ✓ **OK**

Pediatric– Sizes 1, 2, 3



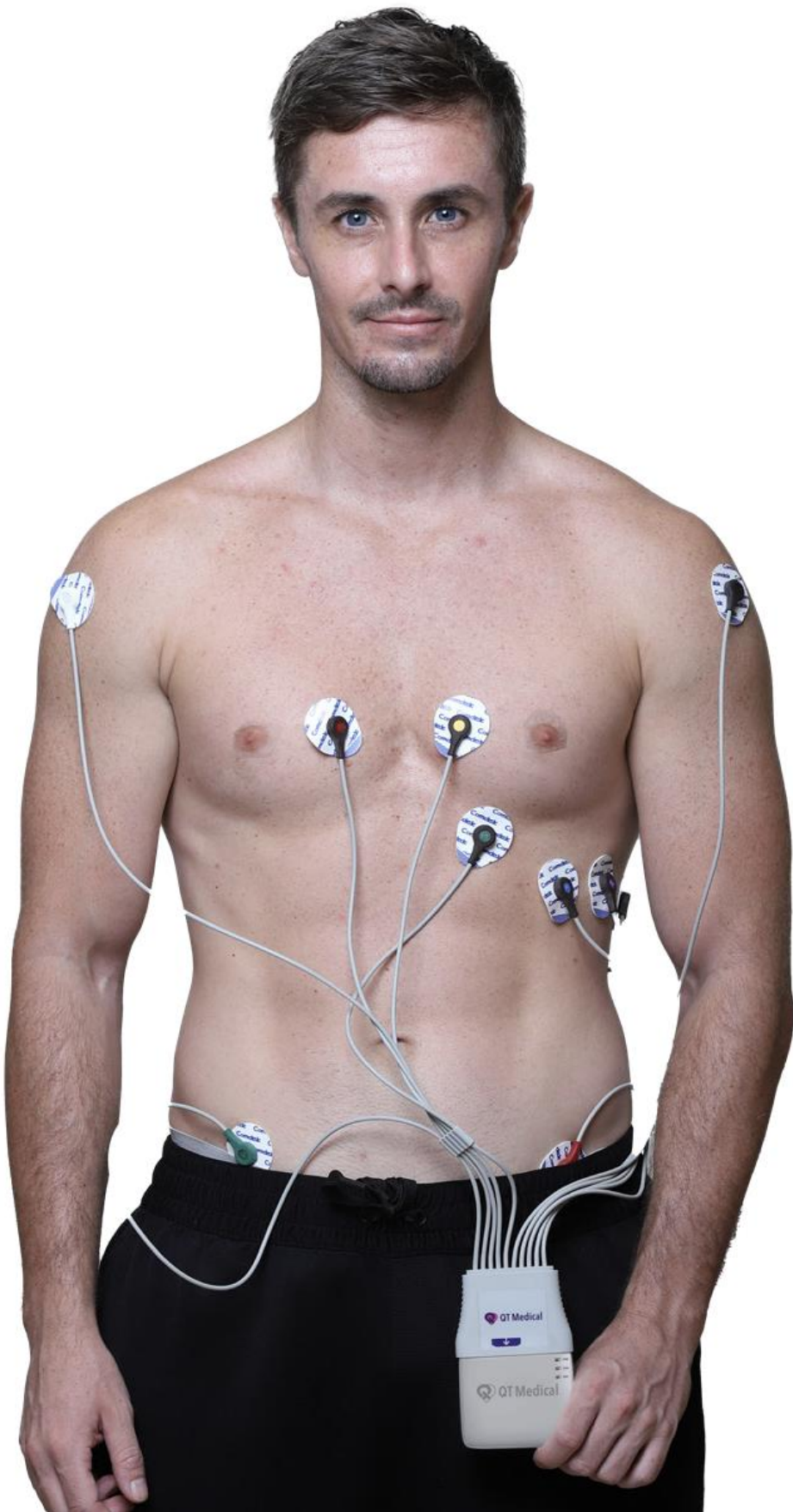
Determining Electrode Strip Size Using This Sizing Guide



 **Video: Sizing guide**

PCA-C100 Patient Cable

Patient Cale Specifications	
Leadwires	10
Connectors	Banana heads + Clip adaptor
Compatibility	Most commercially available ECG electrodes
Placements	AHA , IEC



PCA 300 - Comparison

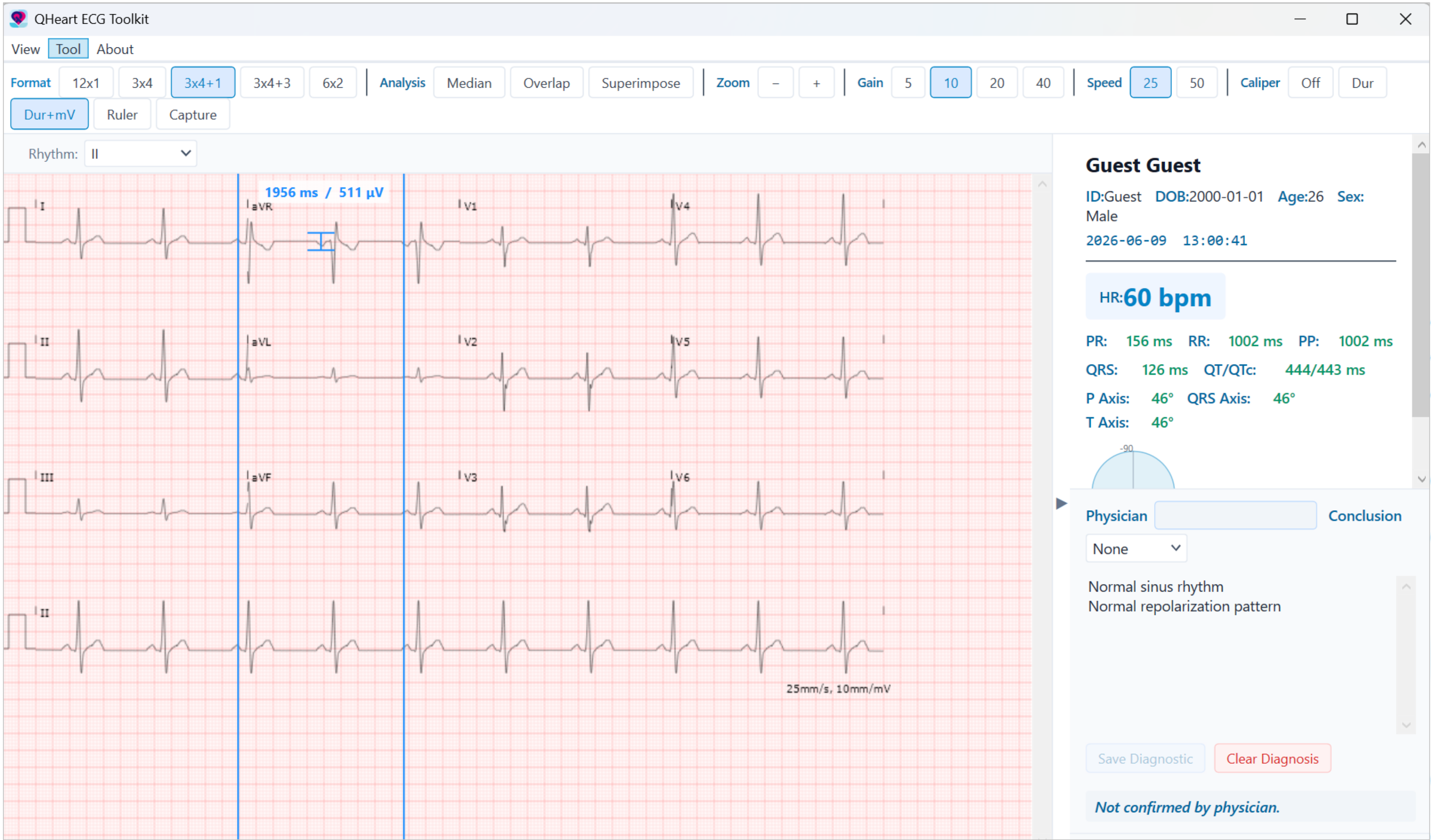
Features	PCA 300	GE MAC 5	Midmark Digital ECG	Schiller Cardiovit FT-1
Display	Uses connected device display (tablet/PC), not included	8.9" Color LCD Display	Uses connected device display (tablet/PC), not included	7" color touchscreen
Display Size	Variable	892 x 558	Variable	800 x 480
Sampling Rate	1000 Hz	1000 Hz	1000Hz	1000Hz
Leads	12-Lead	12-Lead	12-Lead	12-Lead
ECG Hookup	12-lead ECG Patient Cable or QHeart Sensor	12-lead ECG Patient Cable only	12-lead ECG Patient Cable only	12-lead ECG Patient Cable only
Auto interpretation	Yes	Yes	Yes	Yes
Connectivity	Bluetooth, WIFI, LTE/5G	Wireless/ Wired LAN	USB	Wi-Fi, Bluetooth, USB, LAN
Battery Options	Rechargeable >300 recordings	Rechargeable	Depends on connected device	Rechargeable, up to 6 hours
Battery Life	17 hours	3.5 hours (standard)	4-6 hours (depending on usage)	5 hours
Memory/Data Storage	local storage on tablet/PC or ECGcloud	Internal, 300 records	Local storage on connected device	Internal memory
Export Options	PDF, XML, DICOM	PDF, XML	PDF, XML	PDF, XML, DICOM
ECG Paper	Regular paper on wifi or BT-enabled printers	Thermal paper	Printers connected to PC/tablet	Thermal paper
Portability	Highly Portable Wireless	Use with optional trolley	Portable	Portable
Weight	2.4 oz / 67g	5.1 lb / 2300g	13.4 oz / 380g	2.4 lb / 1100g
Compatibility	Windows/iOS/Android	Proprietary	Windows	Proprietary
ECG management	On tablet/PC, EHR integration (extra cost)	Limited storage, MUSE (extra cost)	Limited storage, EHR integration (extra cost)	Limited storage, EHR integration (extra cost)

PCA 300 solutions

Spec	Offline Use		Cloud Use
Package	PCA 300S	PCA 300W	PCA 300C
Recorder	PCA 300	PCA 300	PCA 300
Electrode	QHeart Sensor (50) or Patient Cable (1)	QHeart Sensor (50) or Patient Cable (1)	QHeart Sensor (50) or Patient Cable (1)
App	QT ECG-S (iPadOS)	QT ECG-S (Windows + PCA BT dongle)	QT ECG (iOS, Android)
ECG tool/Caliper	No	Yes	In ECGcloud
ECGcloud	No	No	1 year unlimited
Account & Login	No	No	Required
EHR	PDF upload	PDF upload (no cost) Integration (by request)	PDF upload (no cost) Integration (by request)
Warranty	2 years	2 years	2 years

ECG Tool Kit

Comprehensive ECG analysis tools for accurate waveform review and interpretation.



ECG Report

ECG Report

Powered by QT Medical



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Patient Information

MRN

Name

Gender

Age

DOB(mm/dd/yyyy)

Basic Measurements

Vent. Rate

112 bpm

PR interval

169 ms

RR interval

538 ms

QRS duration

100 ms

QT/ QTc/ QTcF interval

338/ 461/ 415 ms

P, QRS, T axis

68, -71, 90

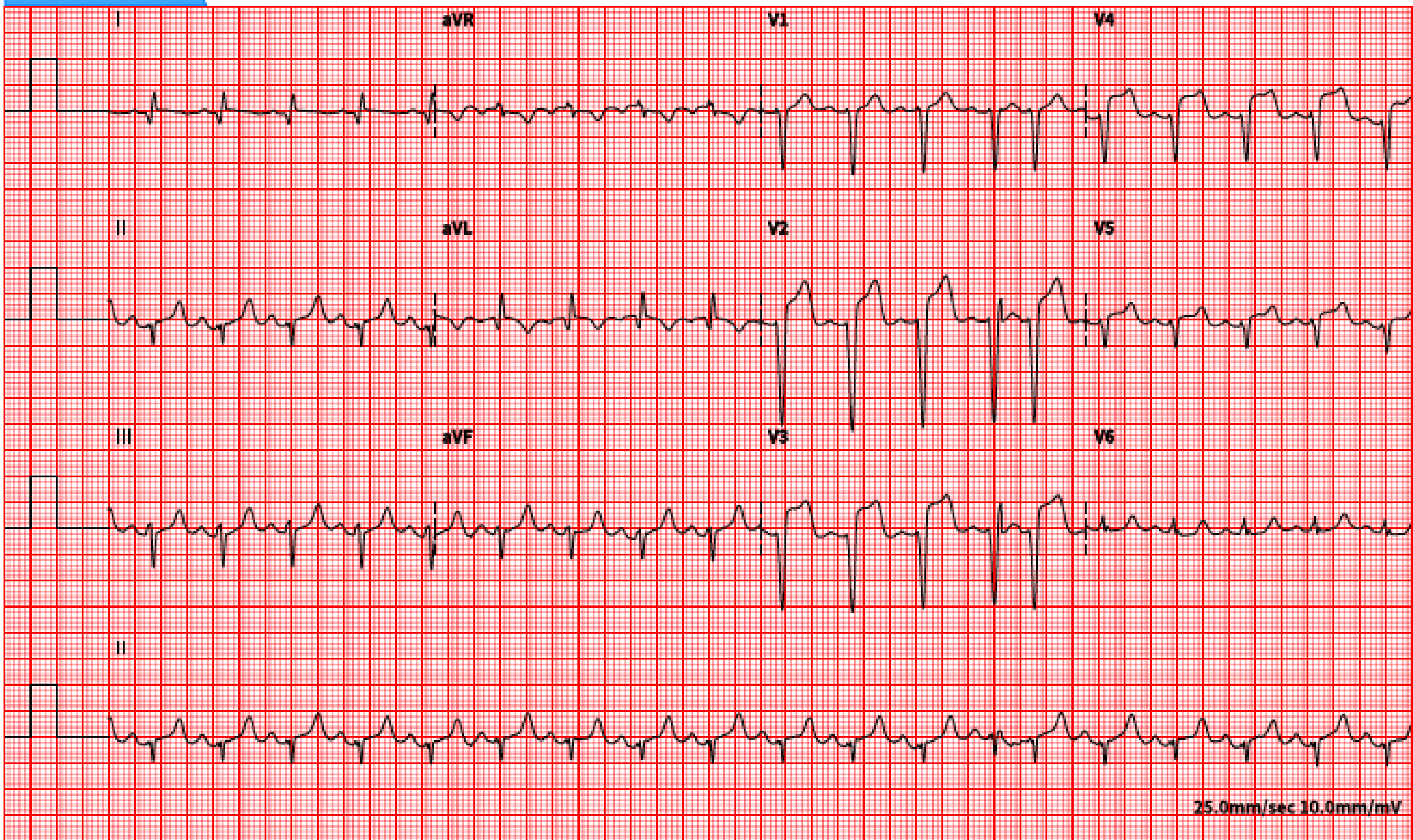
Preliminary Interpretation

* Not Confirmed by Physician *

- Sinus tachycardia
- Isolated atrial premature beat
- Left axis deviation
- Consider infarction, probably acute: anteroseptal leads
- Nonspecific T wave abnormalities, possibly secondary to heart disease
- Prolonged QTc interval

Current ECG

Recorded (YYYY-MM-DD): 2025-04-16 12:30:10 UTC-07:00



Note

ECG Data Acquisition: Good

Three Questions to Ask

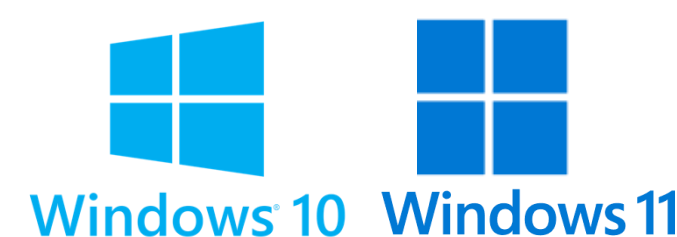
1. Will you use the QT Medical Cloud?

- No – PCA 300S or PCA 300W
- Yes – PCA 300C

2. What OS (platform) will you use?

- No ECGcloud : iOS for iPad – PCA 300S

Windows – PCA 300W



- With ECGcloud: iOS/Android – PCA 300C (phone & pad)

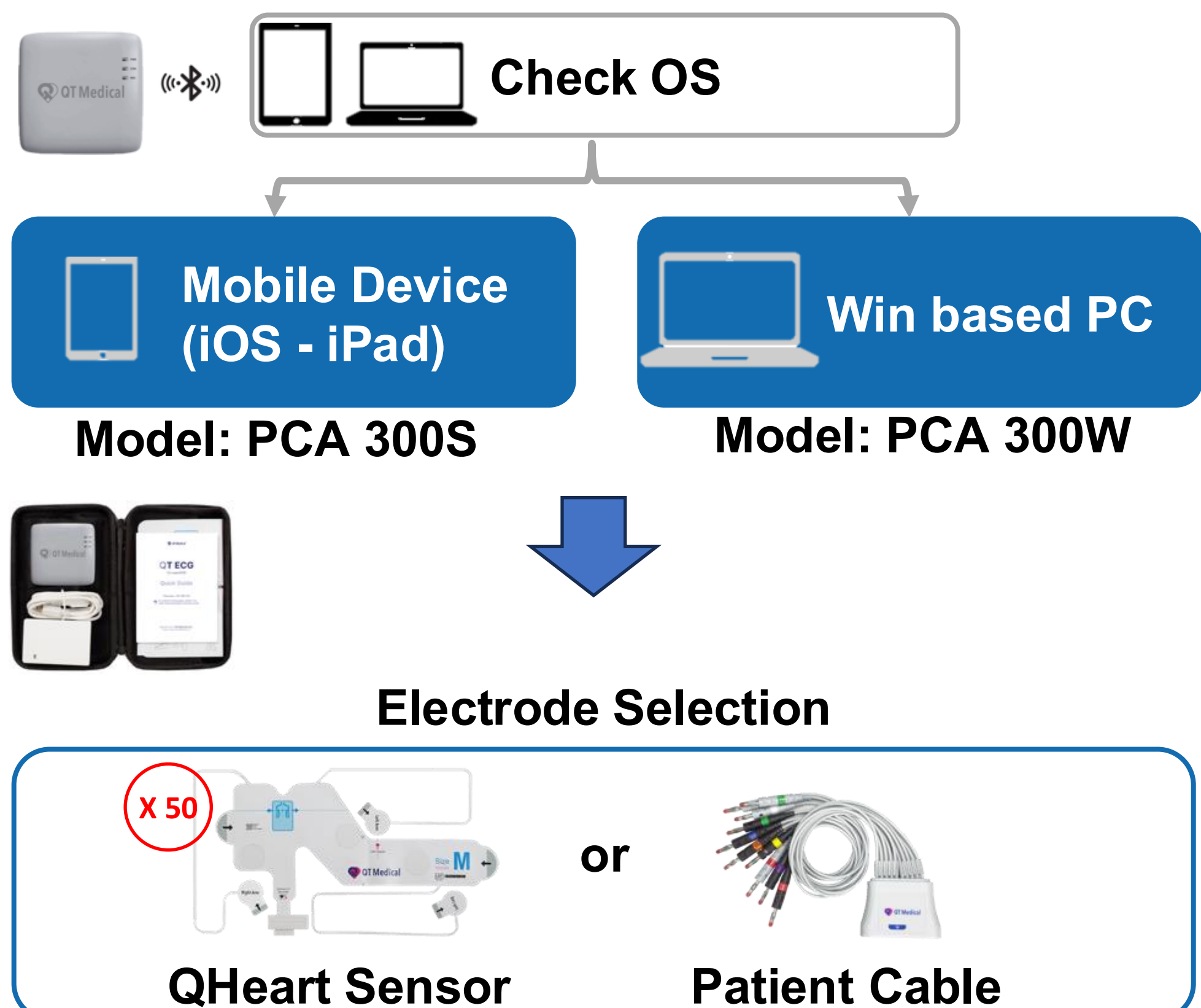
3. Do you want to use with QHeart sensors, or conventional electrodes?

- QHeart Sensor – 50 included
- Conventional electrodes – 1 patient cable included

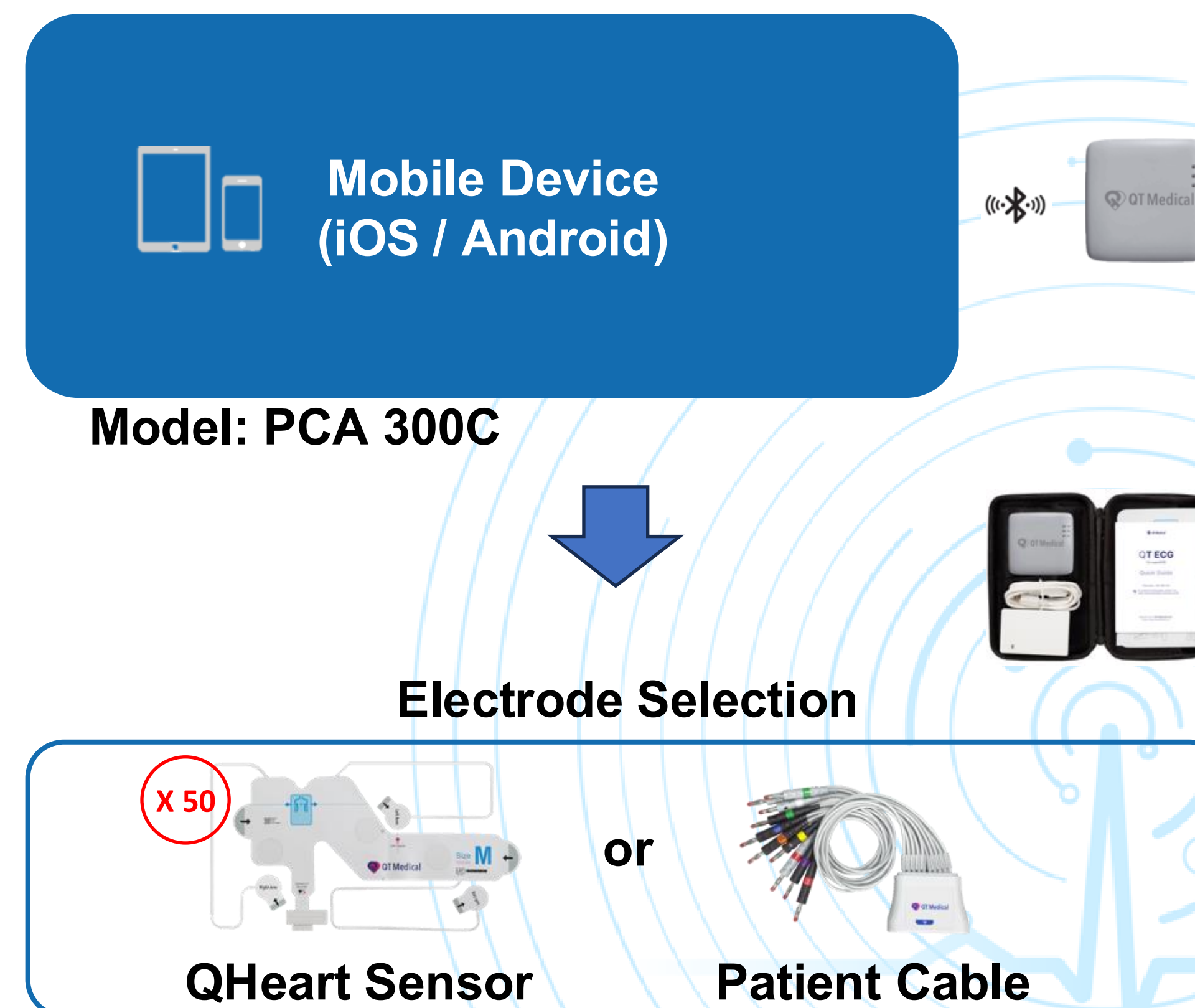
PCA 300 package selection guide

Select Usage Type

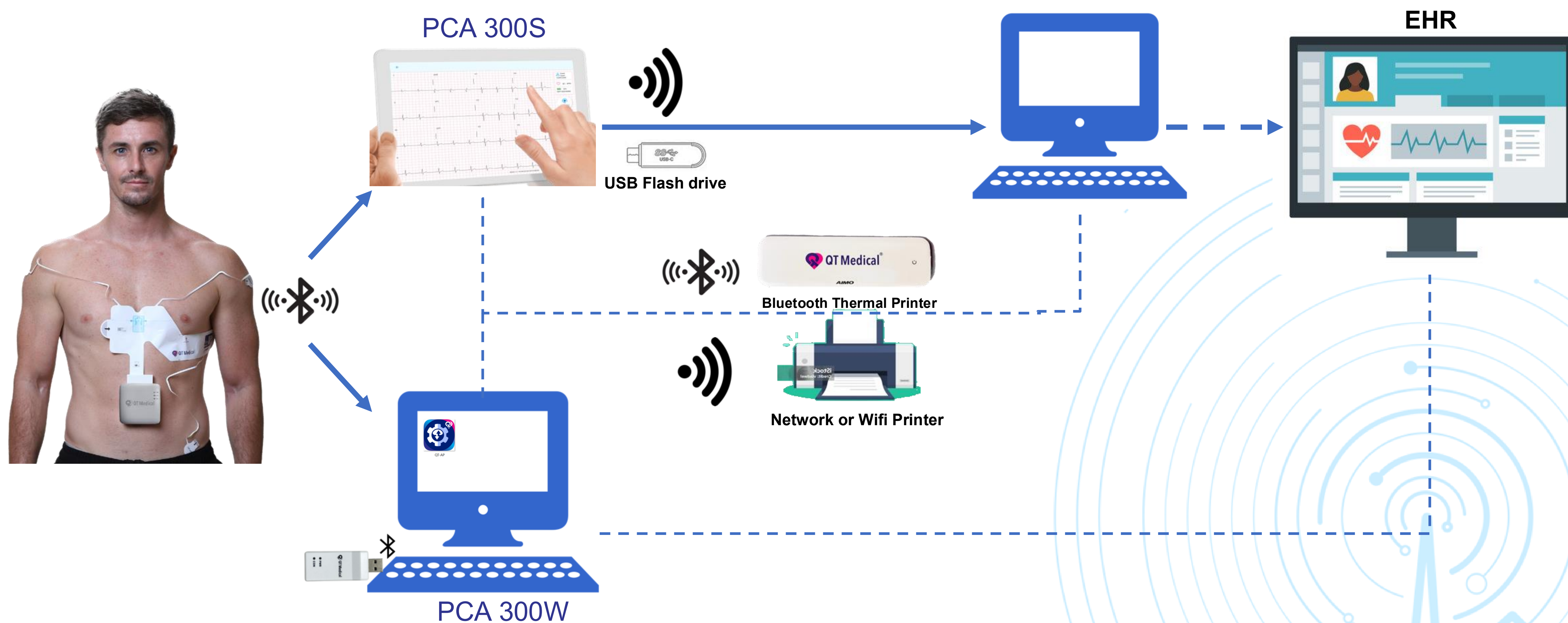
Offline Usage



Cloud Usage

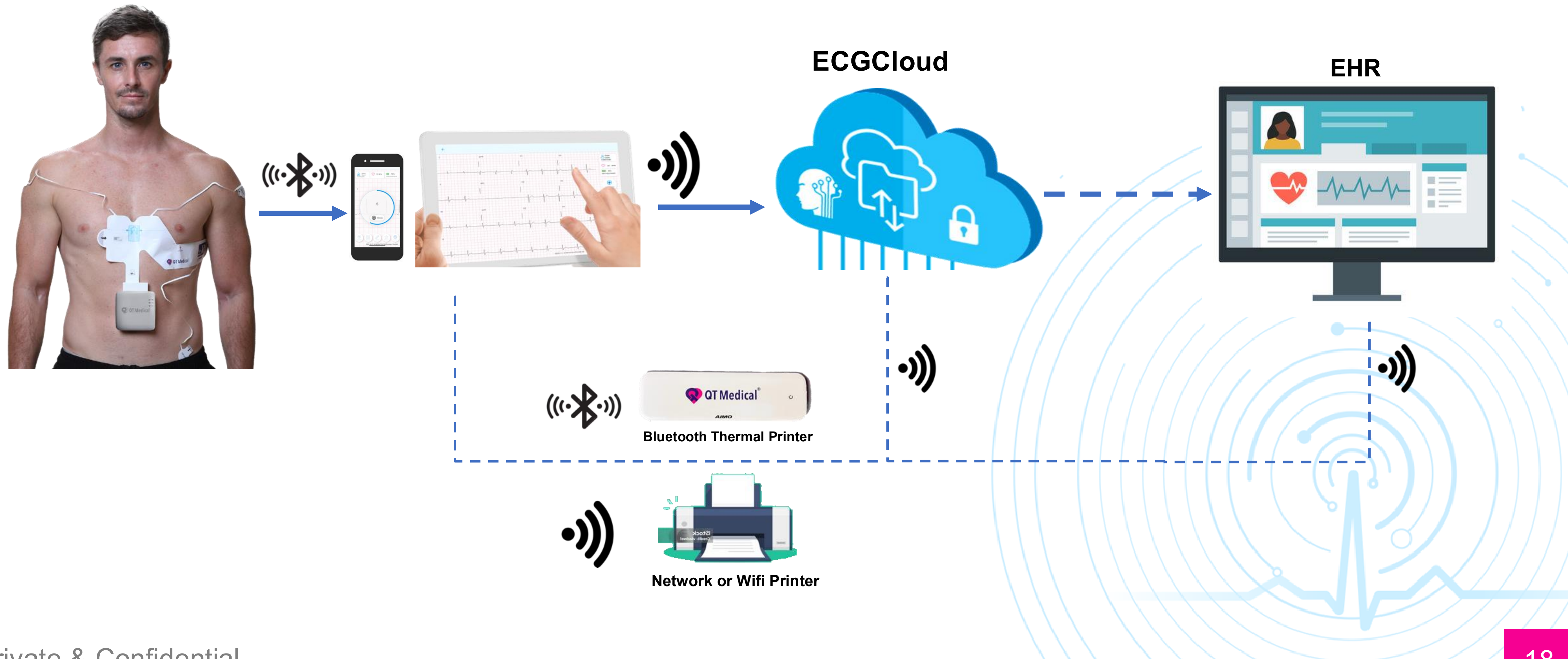


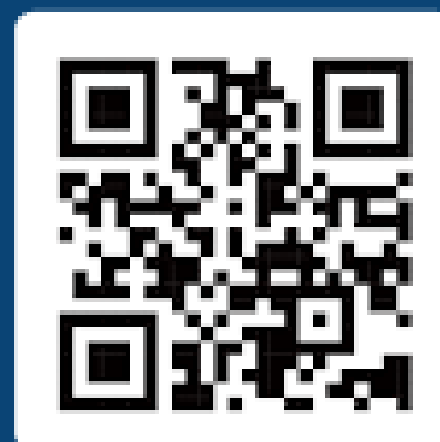
PCA 300S/W ECG Data Management (offline)



Contact QT Medical for QHeart-AP installation guide

PCA 300C ECG Data Management (Cloud)





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