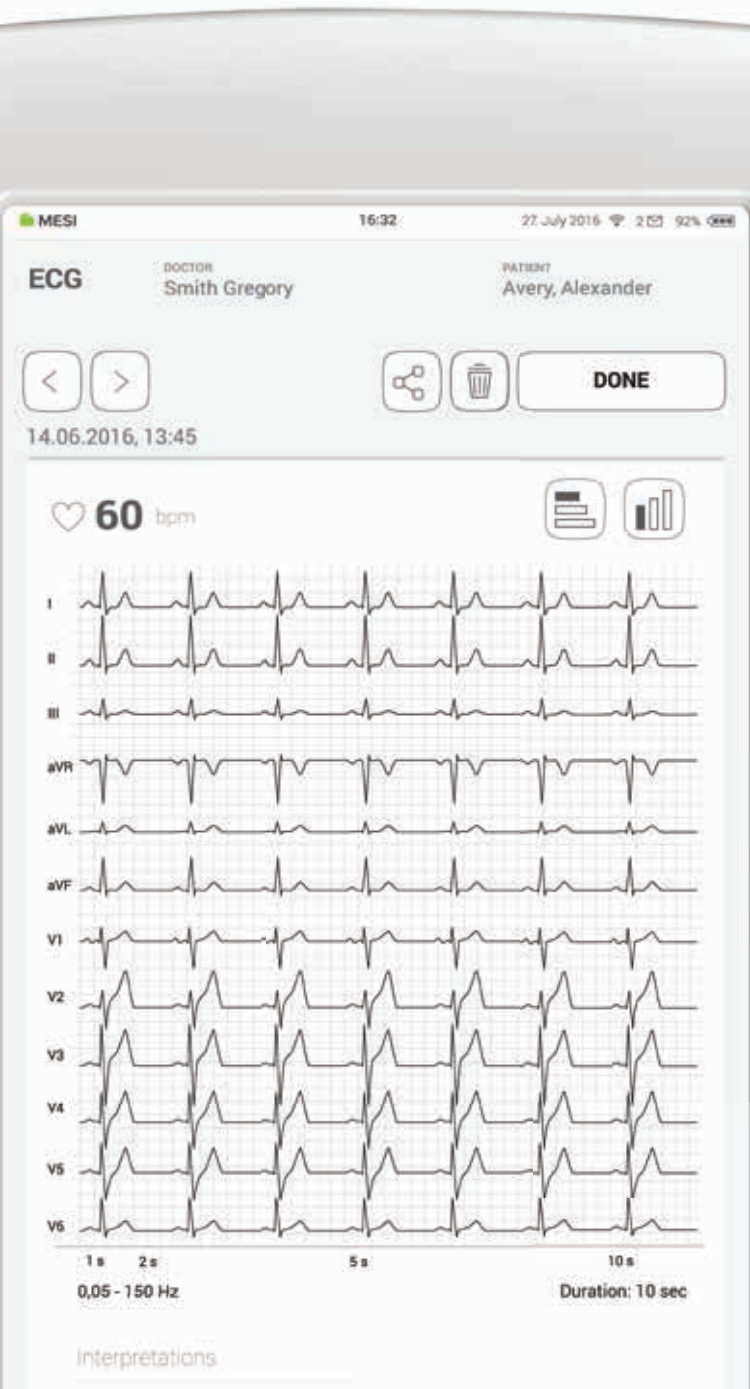




Simplifying Diagnostics

## MESI mTABLET ECG

12-lead ECG  
makes you  
work smarter



Powerful diagnostic and collaboration solution in the palm of your hand anytime, anywhere.



# Advanced ECG analysis and collaboration anytime, anywhere

The wireless and portable MESI mTABLET ECG, a powerful diagnostic device, makes it easy to capture, analyse and share high-quality ECG data that can be accessed for consultation with cardiologists or specialists from any device.

ECG data with advanced interpretation possibilities is available in real-time, for immediate review, printout and consultation.

# CONNECTED WORKFLOW

MESI mTABLET ECG is perfect for healthcare practices that want to reduce the administrative workload and have powerful ECG analysis and their data always at hand. With mRECORDS application consultation is simple, safer and easier than ever.

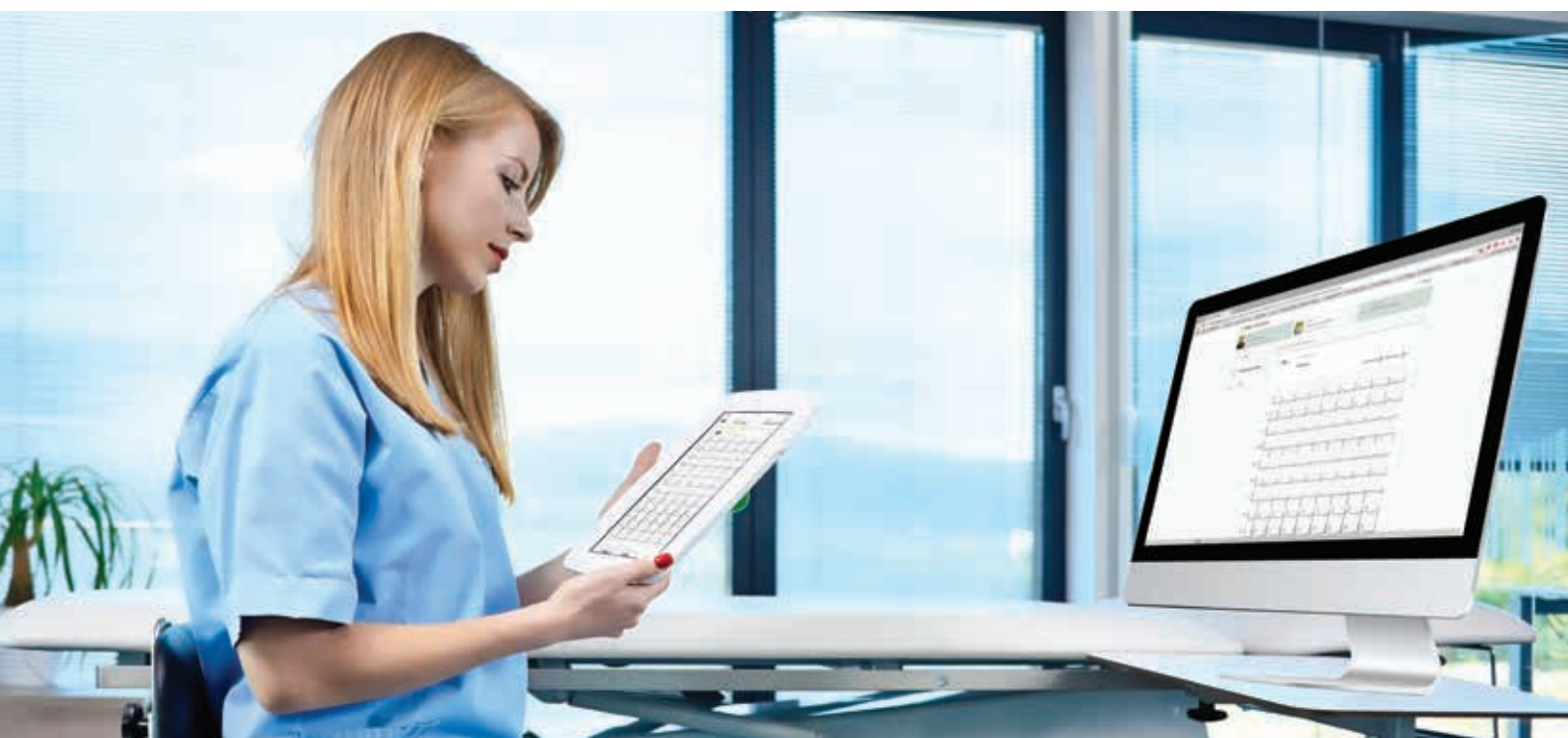
## FEWER STEPS, MORE TIME

MESI mTABLET ECG meets the need for a handy, portable, fast and advanced ECG solution that is easy-to-use.

ECG data is available in real time, on the mTABLET and on the physician's screen, without waiting for the ECG printout. Having immediate access to

the data, allows physicians and specialists to request a repeat ECG even before the electrodes are removed from the patient. This leaves more valuable time for patient care.

MESI mTABLET ECG is suitable for inpatient and outpatient care.



Immediately available ECG data on the mTABLET and on the physician's screen.



Viewing interpretation results.

## ADVANCED ANALYTIC TOOLS

The advanced patient data system, University of Glasgow Interpretive Algorithm, set of powerful analysis tools and mRECORDS application

enable viewing of high-quality ECG data and advanced ECG analysis from any web-enabled device, from any location, anytime, anywhere.

## ENHANCED COLLABORATION

The MESI mTABLET ECG helps to improve collaboration between healthcare professionals, regardless of their location, device OS, browser or screen size.

With the mRECORDS application, medical diagnosis and consultation can be performed in a simple and secure way, from any desktop computer, laptop or mobile device, in just a few clicks.



**MESI mTABLET ECG**  
captures patient's ECG data



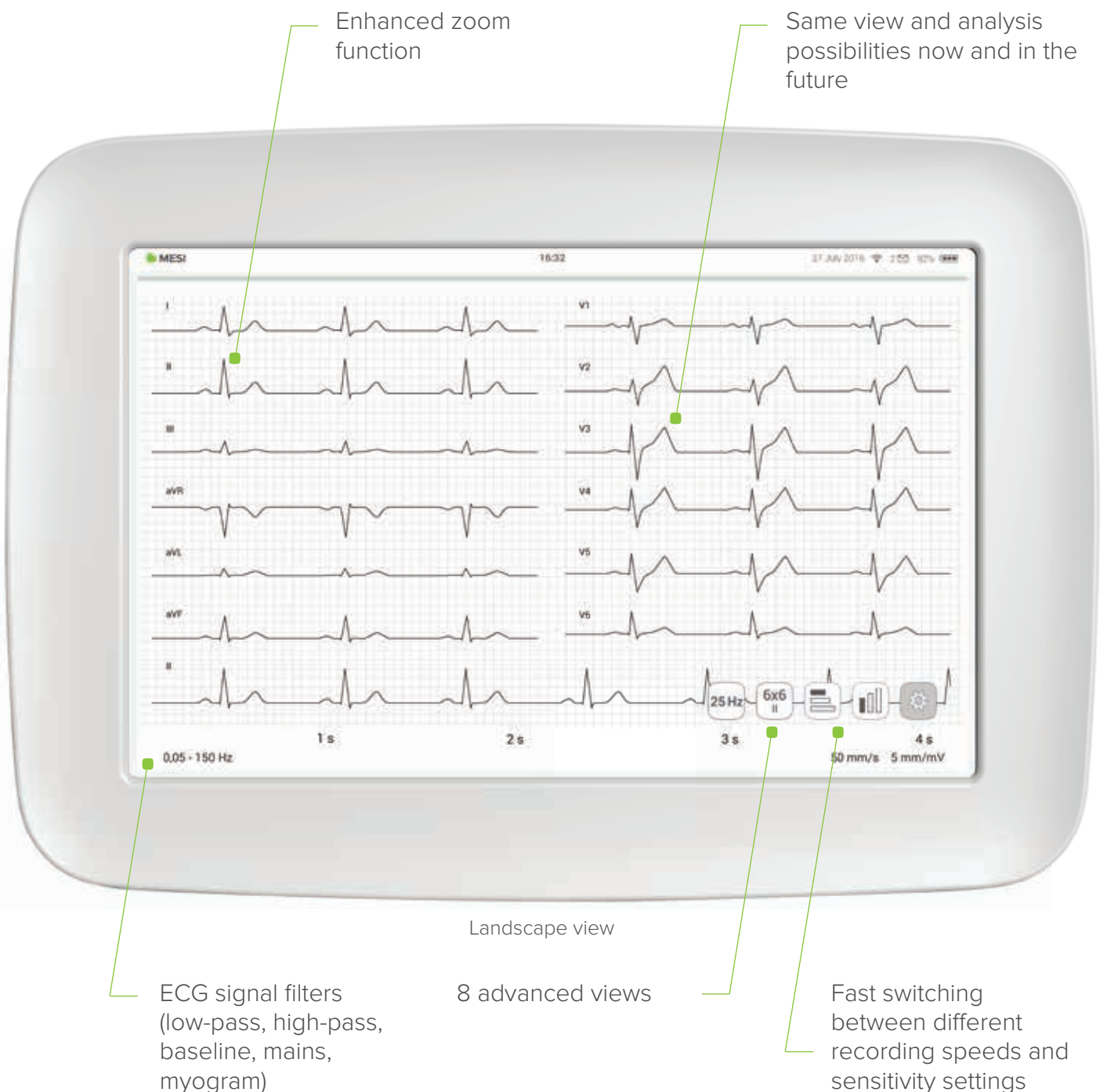
**PHYSICIAN**  
immediately sees the captured ECG signal



**SPECIALIST**  
can access the data

# POWERFUL ANALYSIS TOOLS

The leading University of Glasgow Interpretive Algorithm assures highly accurate and advanced ECG interpretation. It helps the physician to take more confident and informed decisions about diagnosis or further treatment. The high resolution ECG signal is saved in digital format, making it possible to review and manage the ECG data later on.



Security ensured with SSL certificate and 2-step authentication

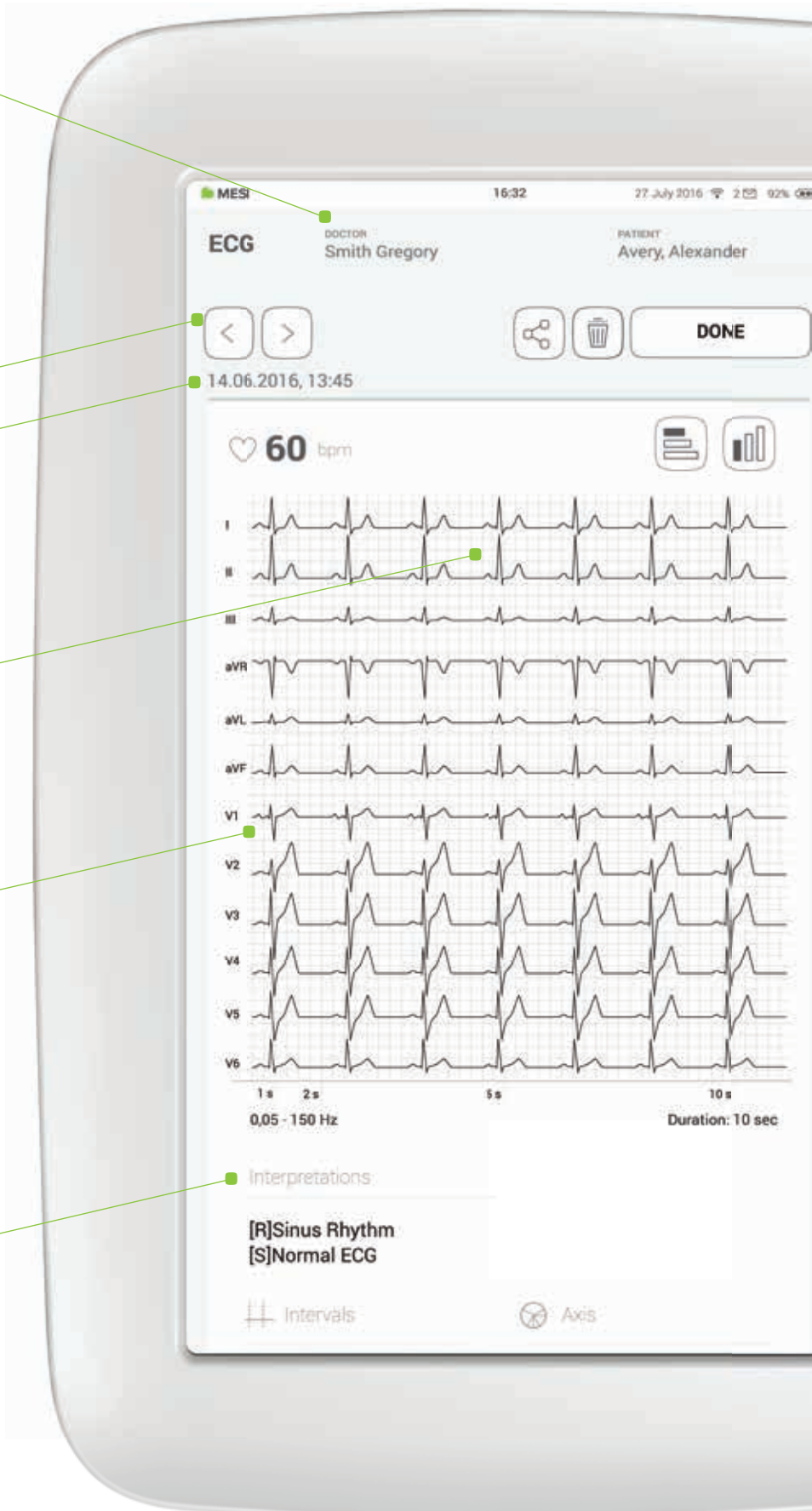
Follow-up recordings

Filtering by criteria

Immediate preview, comment and ECG repeat

Fast patient history in a 12-lead overview

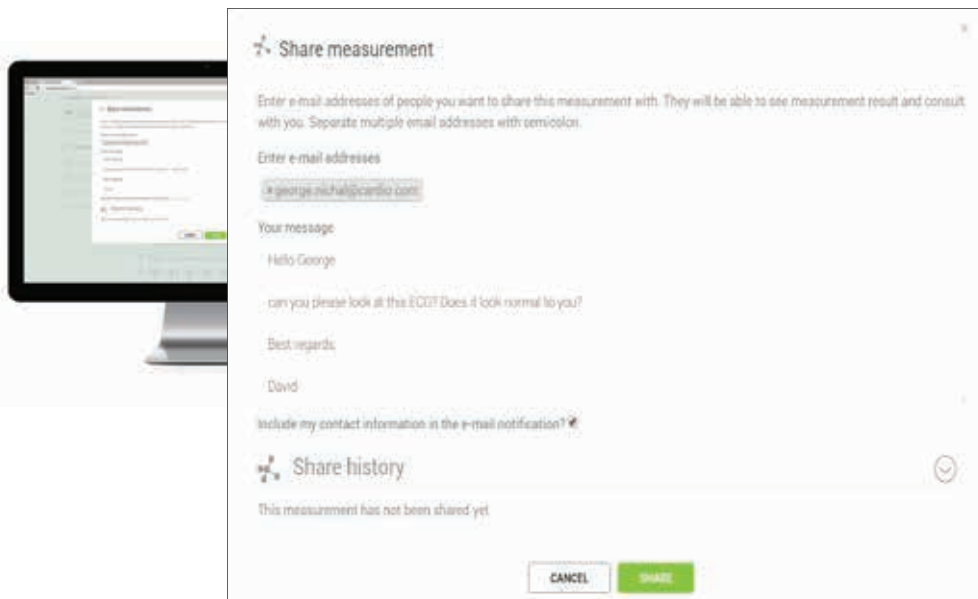
University of Glasgow Interpretive Algorithm



Portrait view

# SIMPLIFIED AND SAFE SHARING AND CONSULTATION

The physician can now share and consult about the ECG recording in a safe and simple way, with just a few clicks, while patient data stays secure.



Sharing view

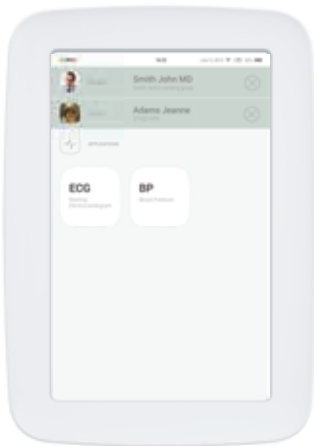
A physician or specialist who is asked for consultation can access the ECG recording from any device or platform and has exactly the same, advanced interpretation possibilities as the physician who requested their opinion. This reduces the likelihood of wrong, unnecessary referrals to specialistst and future, costly treatments.



Consultation view

# INTUITIVE INTERFACE

MESI mTABLET system is extremely easy to use. The user-friendly intuitive interface guides the user through the procedure. Almost no training is required. Results are available for analysis immediately, on both the MESI mTABLET and the physician's screen, while at the same time, they are saved on MESI mTABLET and secure server.



Selecting a patient and a measurement.



Measurement guidelines appear. Pressing a button to start the measurement.



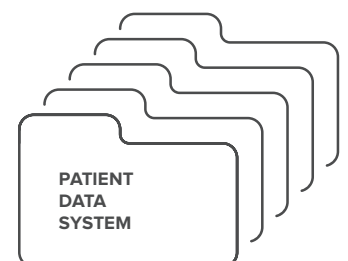
Results and interpretation options appear.



Recording is automatically stored in patient record.



With the mRECORDS application measurement results can be viewed from any device.

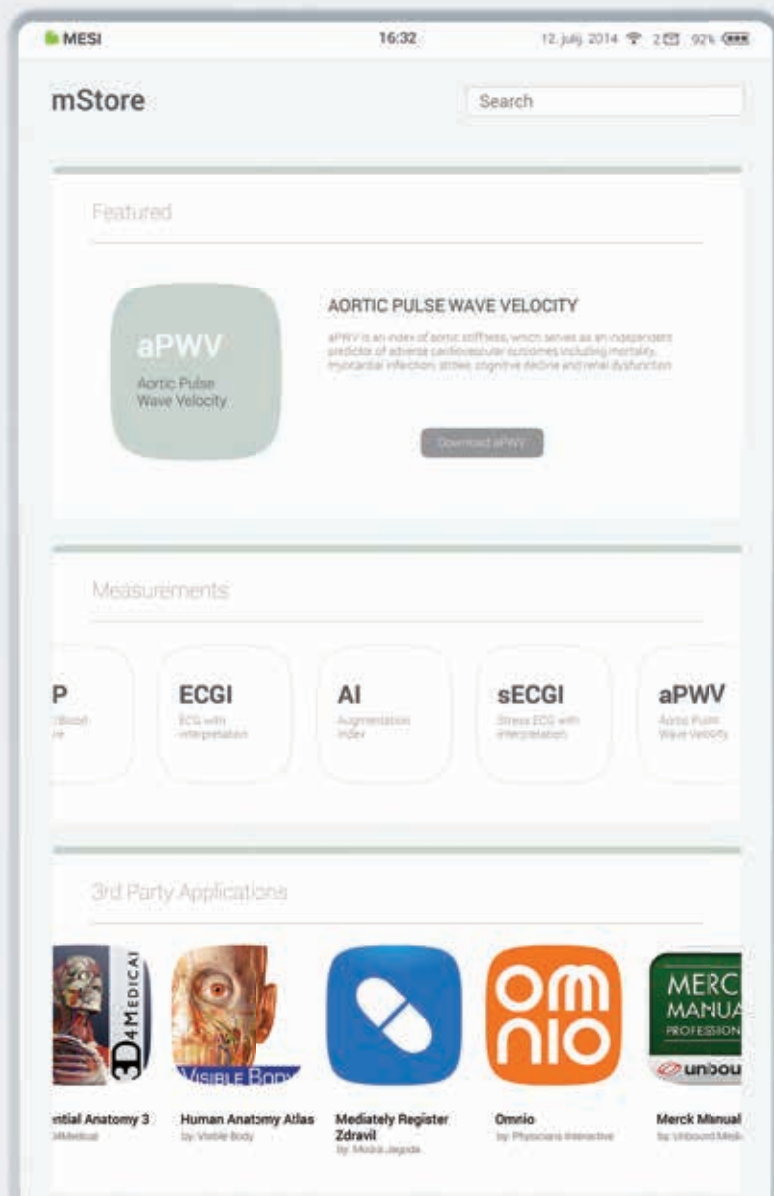


MESI mTABLET synchronizes the measurement result with any existing patient data system.

# YOUR APPS, YOUR TOOLS. YOUR PERSONALIZED SYSTEM

The MESI mTABLET system is constantly being upgraded with additional modules (such as blood pressure or spirometer) and applications, like the ones on your smartphone. This advanced data capture and analysis diagnostic system will replace many less user friendly, outdated, time-consuming and financially demanding solutions.

Upgrade with  
new tools,  
applications  
and algorithms



# MESI mTABLET ECG

## Technical specifications

Tablet	12-lead resting ECG module	mRECORDS
<p>Touchscreen</p> <p>Screen size 10.1 inch (25.6 cm)</p> <p>Display resolution 1280×800 WXGA</p> <p>Camera 5 MP</p> <p>CPU 1.2 GHz</p> <p>Memory: 16 GB</p> <p>Battery: Li-Po 6800 mAh</p> <p>Battery capacity: up to 10 h</p> <p>Wi-Fi 802.11 a/b/g/n</p> <p>Fast Bluetooth connection</p> <p>Wi-Fi charging unit</p> <p>Power adapter 100-240V AC 50 - 60Hz   5V / 5000 mA</p>	<p>Size: 13.5 cm × 4 cm × 4.8 cm</p> <p>Weight: 350 g</p> <p>Defibrillator protection</p> <p>Battery: Li-Po 900mAh</p> <p>Battery capacity: more than 100 measurements</p> <p>Electrode placement detection</p> <p>Automatic (10 s) and the manual mode measurement (max 5 min)</p> <p>Basic ECG examination and interpretation</p> <p>Power adapter 100-240V AC 50 - 60Hz   5V / 1400 mA</p>	<p>Ready for EHR integration</p> <p>Chrome, Internet Explorer, Firefox and Safari compatible</p> <p>Saves unlimited number of ECG recordings</p> <p>Several printing format possibilities</p>

### Recording specifications

Safety standards: IEC/EN 60601-1; IEC/EN 60601-2-25; IEC/EN 60601-1-2 (EMC)

Detection of loose electrodes

Sampling frequency: 32,000 samples/second/channel

ECG analysis frequency: 1,000 samples/second

CMRR: > 110dB

Input impedance: 10 Mohm

Digital resolution: 2.5µV / 19-bit

Pacemaker detection:  $\geq \pm 2$  mV /  $\geq \pm 0.1$  ms

Heart rate measurement: up to 300 BPM

### ECG display

Display on screen: doctor and patient name, heart rate, speed, amplification, time, duration, electrodes present, filter setting, interpretation, measurement history, results commenting, time and date of measurement

University of Glasgow Interpretive Algorithm – automatic interpretation (considers age and race)

Display of parallel graphs: 6:6+1, 6:6, 3:3 main, 3:3 aux, 6 main, 6 aux, 3:4, 12

Lowpass filters: 150 Hz, 250 Hz

Highpass filters: 0.05 Hz, 0.2 Hz, 0.5 Hz

Mains filter: 50/60 Hz

Myogram (muscle tremor) filter: 25 Hz (40 dB/dec) or 35 Hz (20 dB/dec)



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ISO 13485 certified



Finalist of Qualcomm  
Tricorder XPRIZE competition

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January 2017