

BIOMONITOR III

Cardiac Monitoring.
Made Clearer.



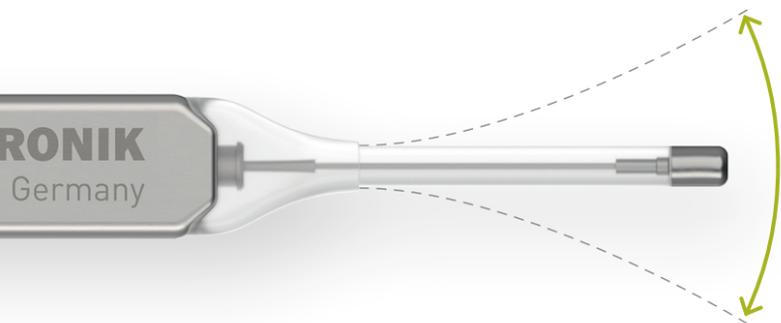
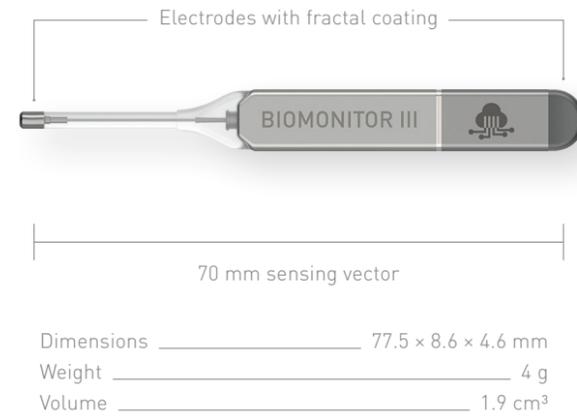


Unique BIOvector Design

Small Can, Long Vector

The BIOvector design combines a small can design for patient comfort with a long sensing vector for high amplitude signal quality.

- Unique enhanced sensing vector
- Small can design
- Electrodes with fractal coating for high amplitude signal quality



Adapts to Patient Anatomy for High Patient Comfort

Flexible antenna

The flexible antenna adapts to the patients individual anatomy, avoids physical tissue stress and enhances patient comfort.

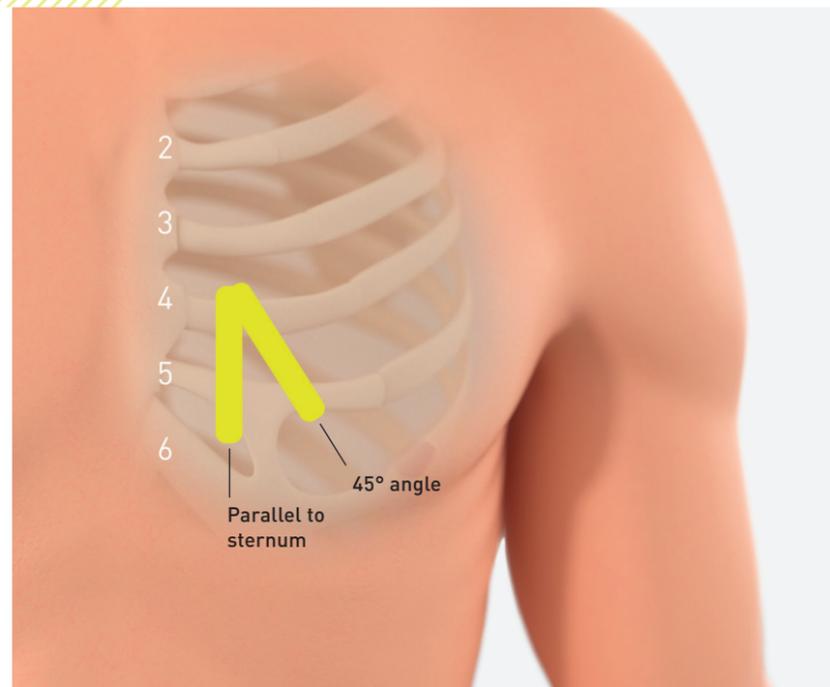
Choice of injection sites

The long sensing antenna of the BIOvector allows for several adequate injection sites without compromising signal quality.

High Patient Comfort

- 92.5% of patients did not think that the device limited their daily activities¹
- 85% of patients rated the wearing comfort good or excellent¹

Patient rating¹



One-Step Injection Ideal for In-Office.

Injection Procedure in 39 Seconds¹

Dedicated blade for optimal incision dimensions

BIOMONITOR III is pre-assembled in the injection tool



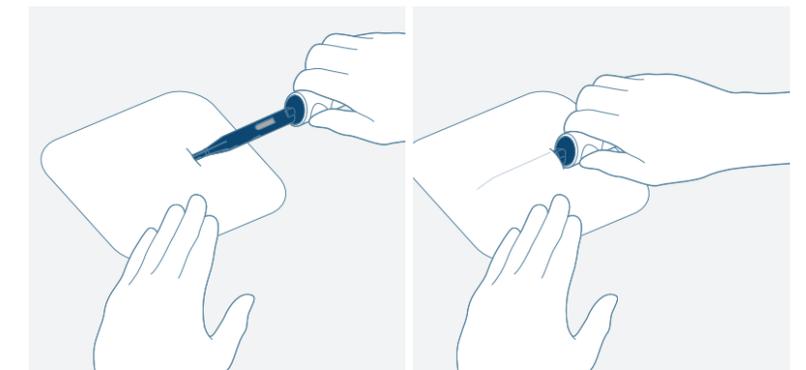
One-Step Injection Procedure

- No assembly needed
- Tunneling and delivery of the device in one go

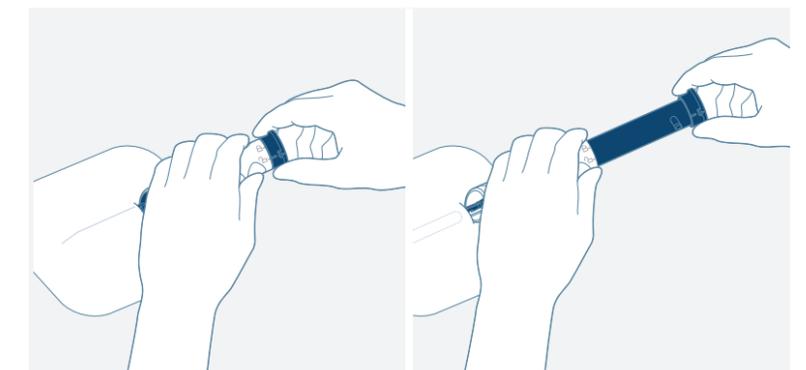
“BIOMONITOR III’s injection procedure is extremely easy. It requires minimal set-up.”

Associate Professor Dr. Paul Gould
St Andrew’s War Memorial Hospital Brisbane

Push to inject the BIOMONITOR III



Rotate and pull to remove the injection tool



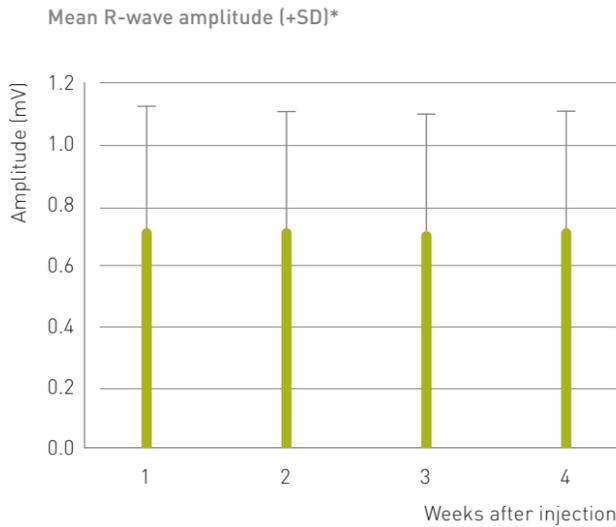


High Quality Signal. Easy Rhythm Classification.

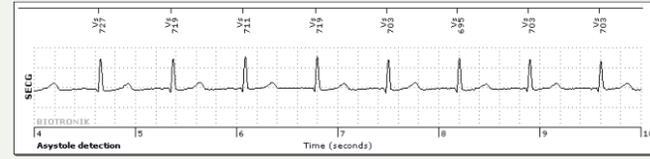
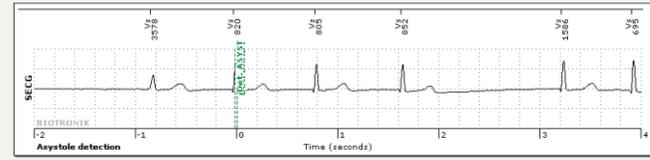
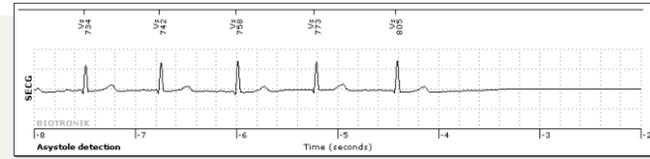
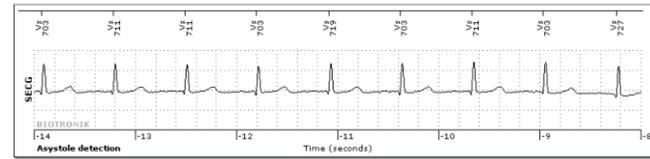
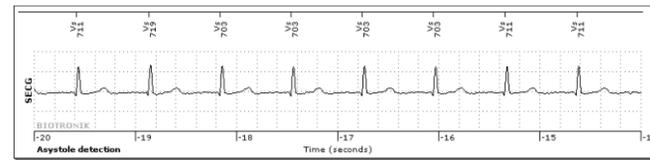
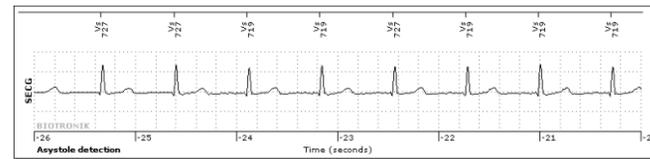
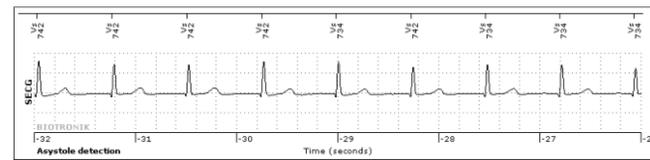
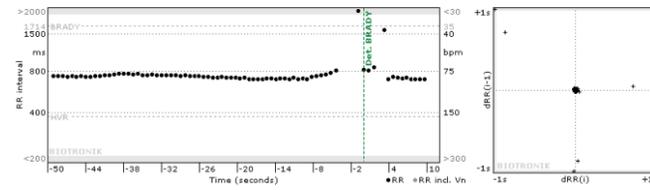
High R-Wave Amplitude of 0.7 mV^{1,3}

High R-wave amplitudes are the basis of reliable arrhythmia detection using R-R irregularity.

- Mean R-wave amplitude of 0.7 mV
- Stable R-wave amplitudes over time



* Patients with less than one week data were excluded

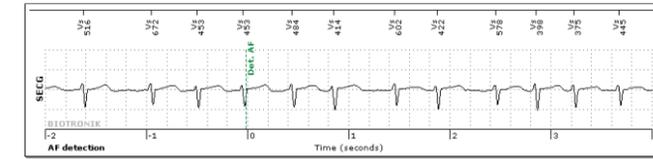
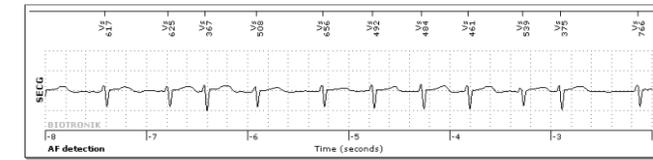
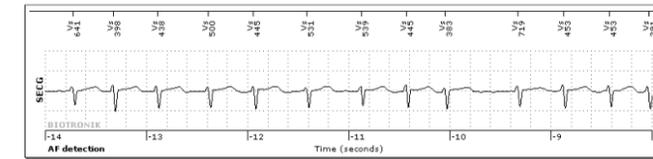
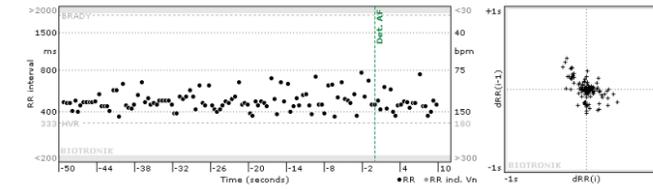


Example of asystole detection (BIO|CONCEPT_BIOMONIOR III study)

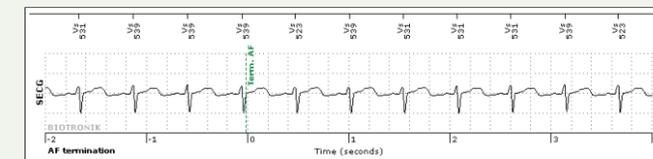
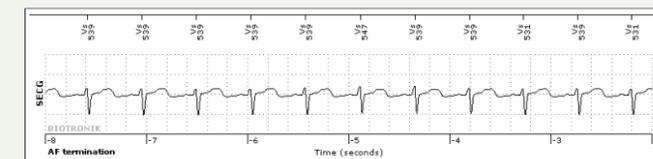
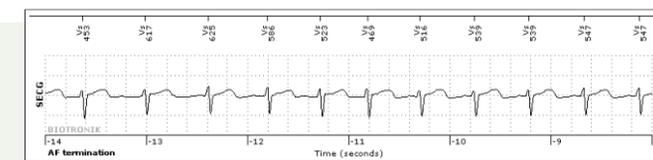
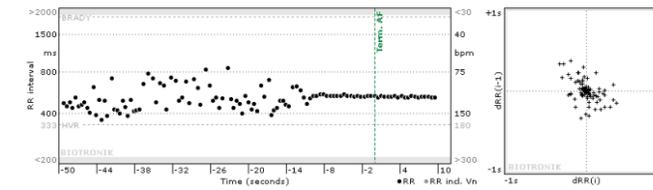
89% of The Heart Cycles Showed P-Waves^{1,3}

Visible P-waves support quick evaluation of cardiac rhythm.

AF detection



AF termination



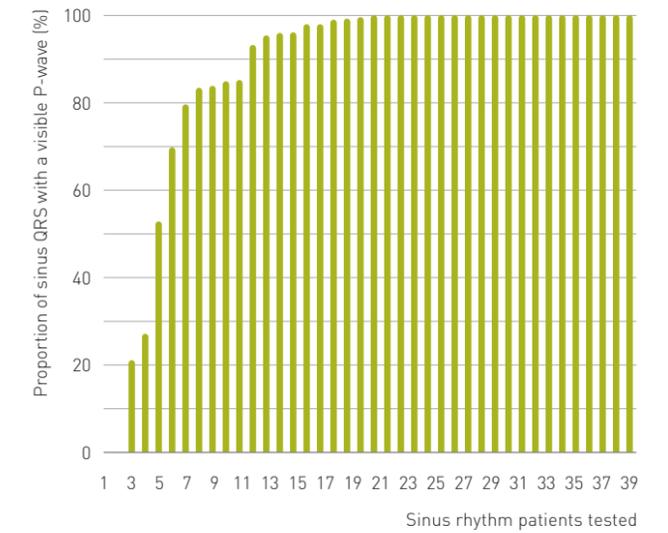
Example of AF detection (BIO|CONCEPT_BIOMONIOR III study)

Visible P-waves support quick evaluation of cardiac rhythm



Visible P-waves at sinus rhythm

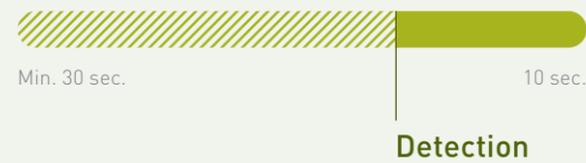
Clearly visible P-waves in the vast majority of patients³



Syncopal Detection

An automatically detected arrhythmia episode includes at least 30 sec prior and 10 seconds after detection.

Stored arrhythmia episode



AF Detection

Each AF detection includes two separate episodes.

- AF onset
- AF termination



Automated Home Monitoring. Plug In & Go.

No Patient Interaction Required

BIOMONITOR III works with BIOTRONIK's fully automated Home Monitoring. You literally just plug the CardioMessenger Smart into the power socket and it is up and running.

- Auto set-up and pairing
- Automatic daily data transmission



No need for in-office visits to have alerts changed



Data transmission reliability of 98%¹



Faster detection, up to 6 events per day

BIOTRONIK Patient App: A New Way to Get Insight into the Symptom-Rhythm Correlation

For patients who want to be closer involved in their therapy management.

Adding symptoms to the monitoring diagnostics
Recorded patient symptoms are transmitted to Home Monitoring.

Enhanced patient compliance
Transmission feedback and help functions ensure successful long-term monitoring.

Long-Term Monitoring Made Easy



One-step programming with ProgramConsult
Predefined indication-based settings make programming quick and easy.



4 years of continuous monitoring²
BIOMONITOR III makes long-term continuous monitoring possible.

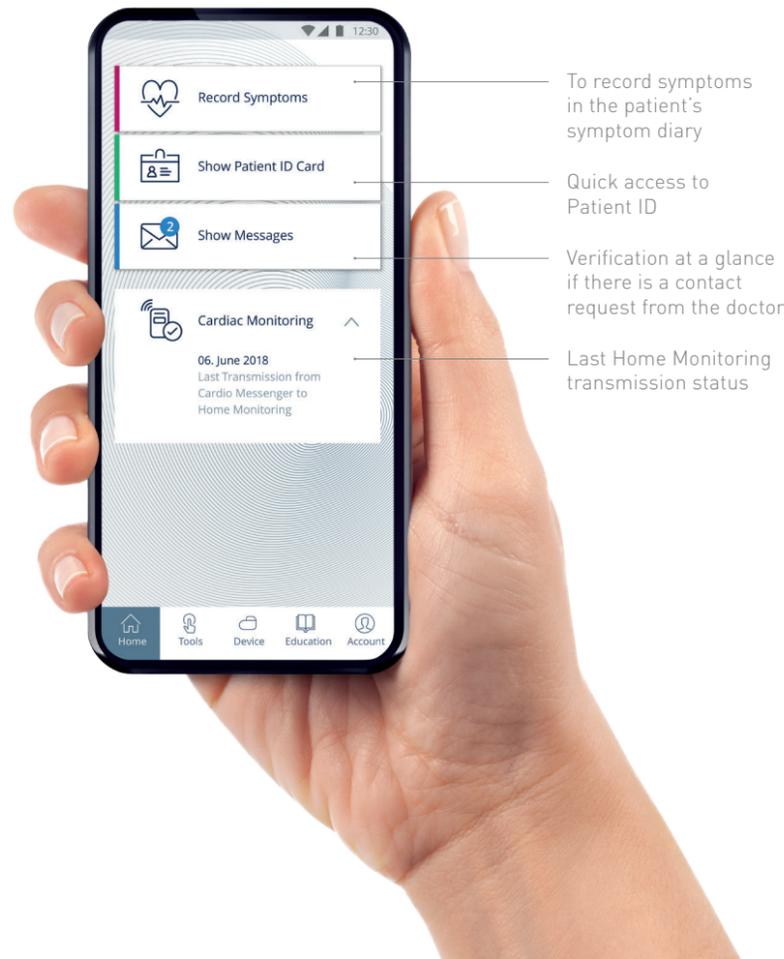


MR conditional approved
BIOMONITOR III is approved for 1.5 T and 3.0 T MRI scanning procedures.

ProgramConsult
4 indication-based program sets

Program sets
Syncope
Palpitations
AF monitoring
Cryptogenic stroke

Syncope settings	
Asystole duration (s)	3
SRD rate decrease	50
SRD sensitivity	low
Bradycardia zone limit	35
Bradycardia duration	20
HVR limit	160
HVR counter	16
AF sensitivity	low
RR variability limit	12
Confirmation time	10
Bigeminy rejection	agressive



To record symptoms in the patient's symptom diary

Quick access to Patient ID

Verification at a glance if there is a contact request from the doctor

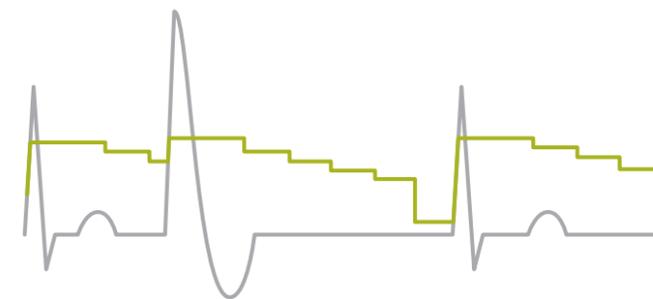
Last Home Monitoring transmission status



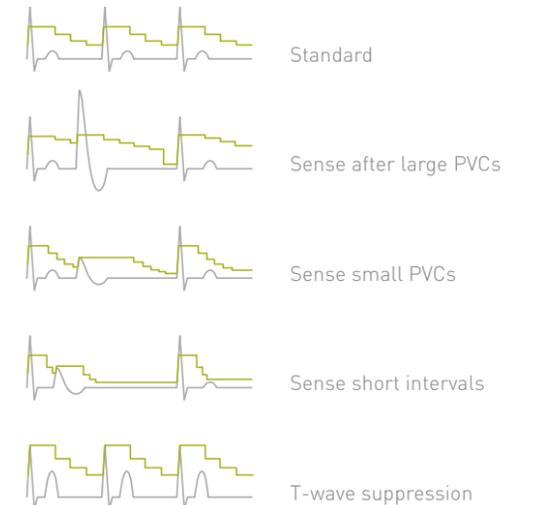
Quick sensing optimization with SensingConsult

With one click, the optimal sensing threshold profile can be selected for the clinically most relevant scenarios.

Sensing threshold profile



● Threshold profile
● Rhythm

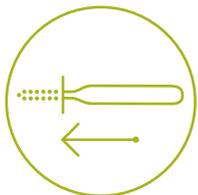


BIOMONITOR III

Cardiac Monitoring. Made Clearer.



Unique BIOvector Design



One-Step Injection.
Ideal for In-Office.



High Quality Signal.
Easy Rhythm Classification.



Automated Home Monitoring.
Plug In & Go.

- 1 BIO|CONCEPT.BIOMONITOR III study: Data on file.
- 2 4 year longevity: Home Monitoring ON, one auto SECG transmission per day, two patient triggered SECG per month.
- 3 Lovibond S et al. The BIO|CONCEPT.BIOMONITOR III study: Sensing performance and Home Monitoring transmission success of a new miniaturized Implantable Cardiac Monitor. Poster AP19-00775; APHRS 2019.