

# BIOMONITOR III

Cardiac Monitoring.  
Made Clearer.



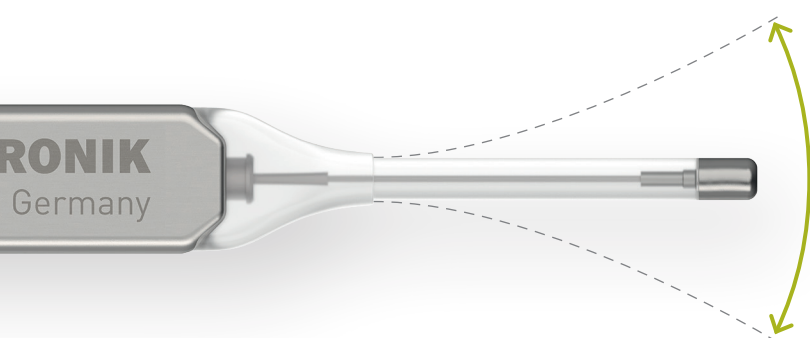
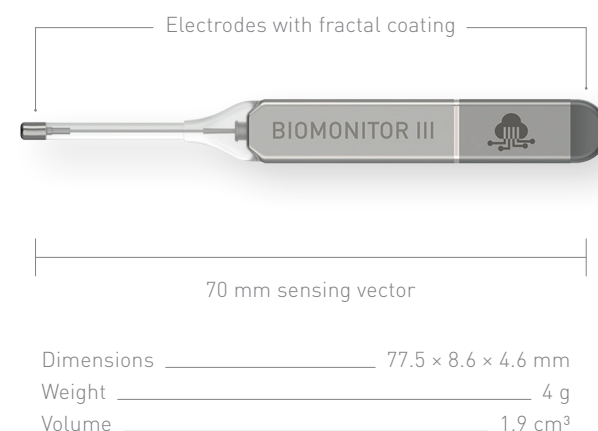


## Unique BIOvector Design

### 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.

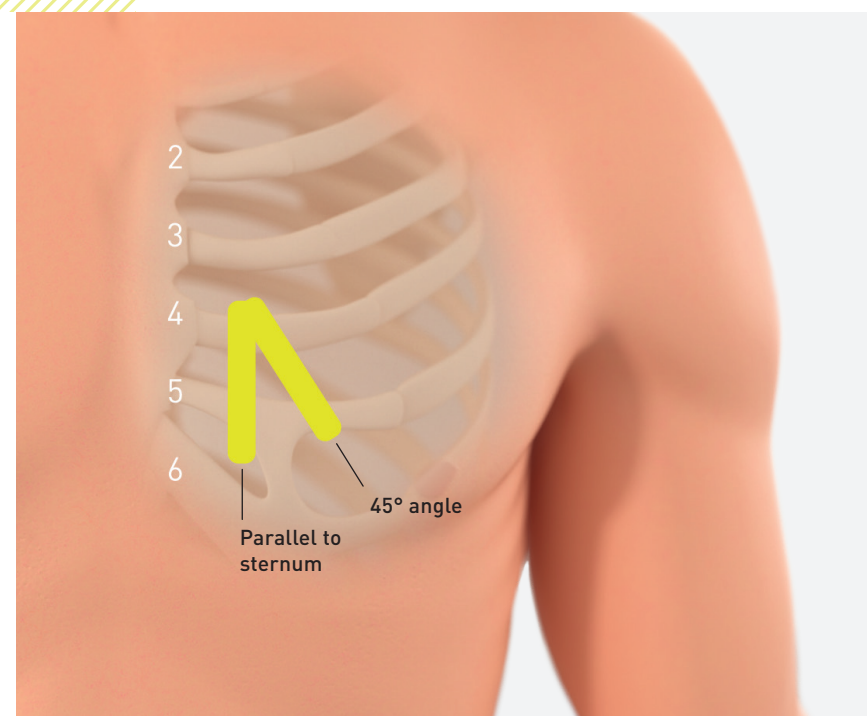
#### Choice of injection sites

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 activities<sup>1</sup>
- 85% of patients rated the wearing comfort good or excellent<sup>1</sup>

Patient rating<sup>1</sup>



## One-Step Injection Ideal for In-Office.

### Injection Procedure in 39 Seconds<sup>1</sup>

Dedicated blade for optimal incision dimensions

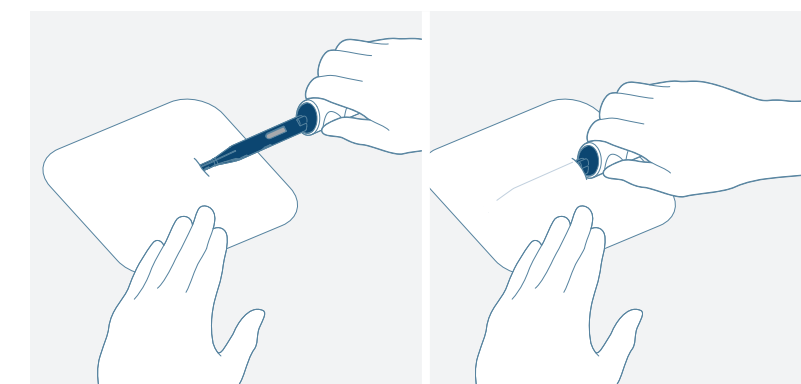
BIOMONITOR III is pre-assembled in the injection tool



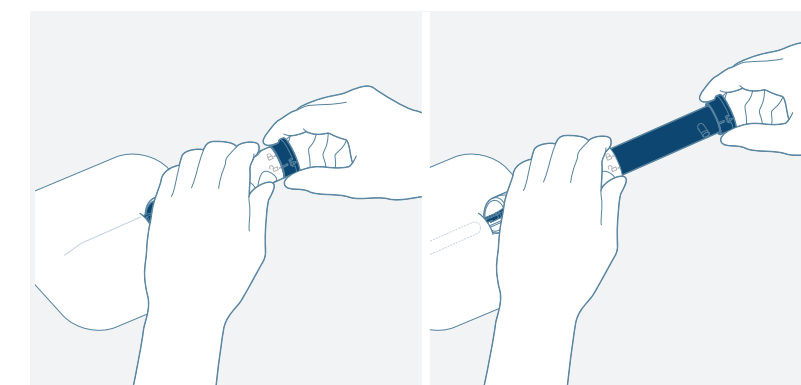
### One-Step Injection Procedure

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

Push to inject the BIOMONITOR III



Rotate and pull to remove the injection tool



“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



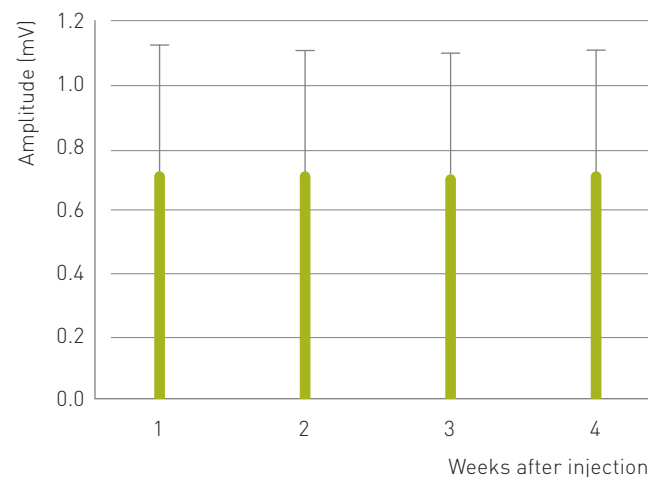
# High Quality Signal. Easy Rhythm Classification.

## High R-Wave Amplitude of 0.7 mV<sup>1,3</sup>

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

Mean R-wave amplitude (+SD)\*

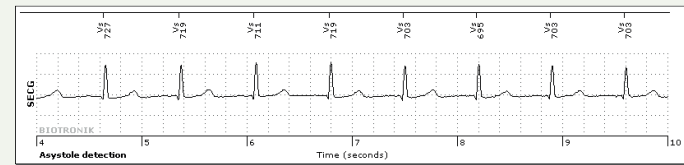
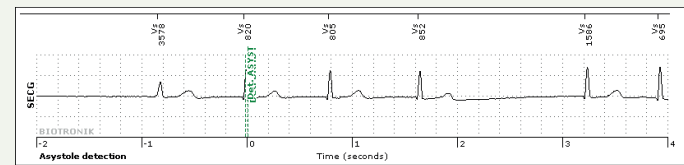
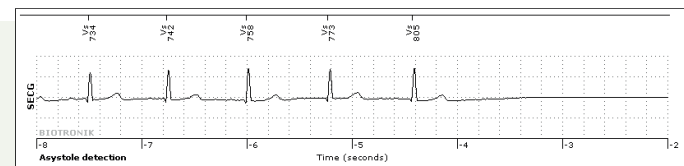
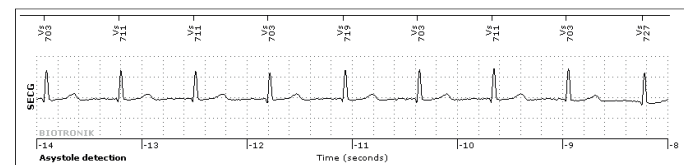
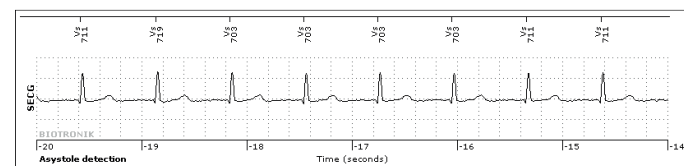
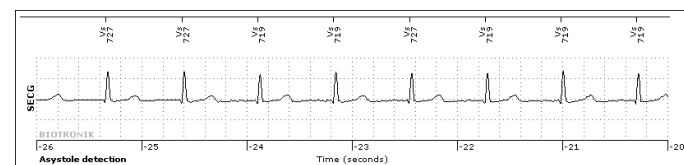
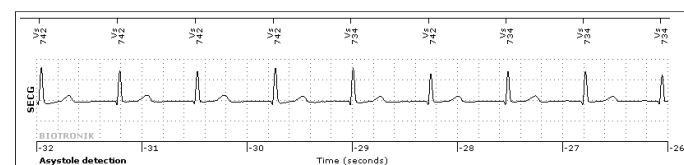
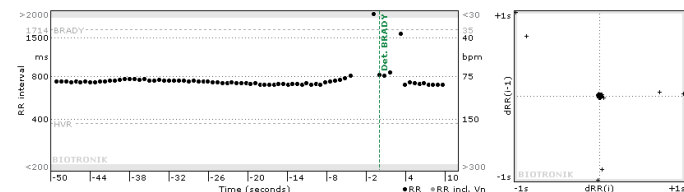
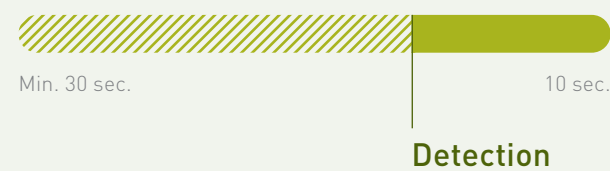


\* Patients with less than one week data were excluded

## Syncopal Detection

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

Stored arrhythmia episode

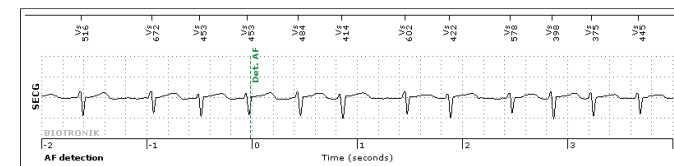
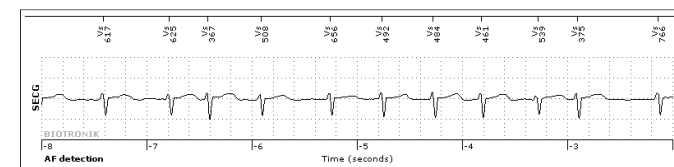
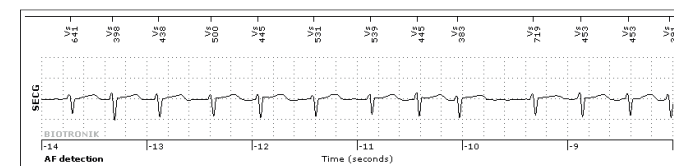
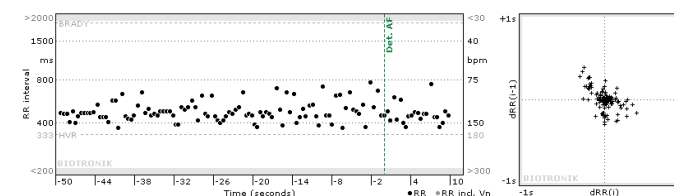


Example of asystole detection (BIO|CONCEPT\_BIOMONIOR III study)

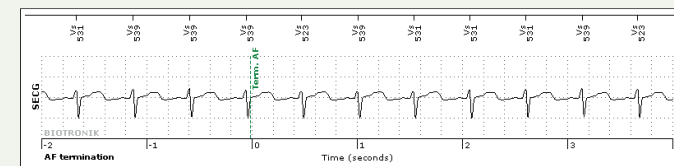
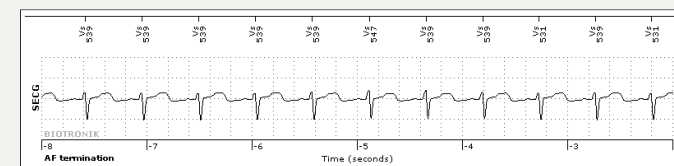
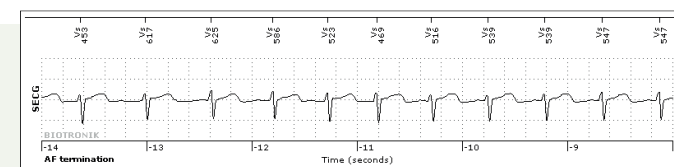
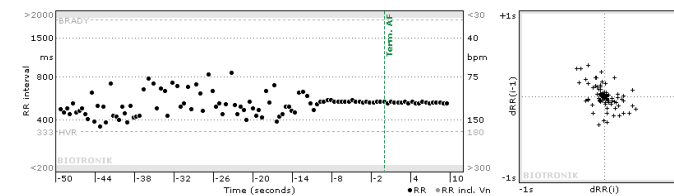
## 89% of The Heart Cycles Showed P-Waves<sup>1,3</sup>

Visible P-waves support quick evaluation of cardiac rhythm.

AF detection



AF termination



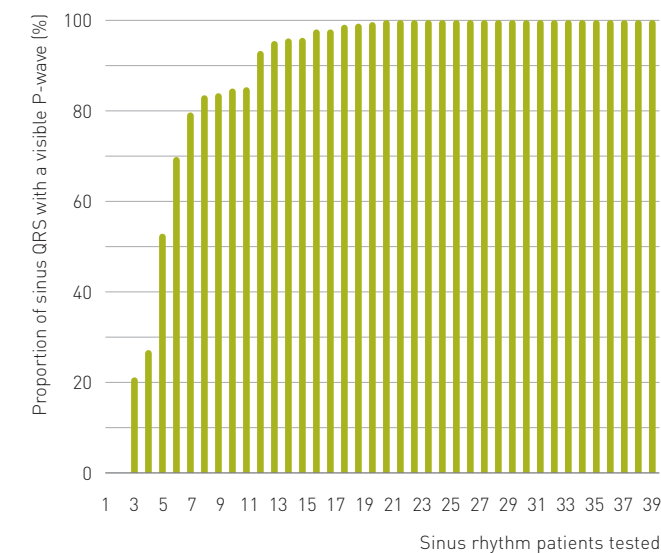
Example of AF detection (BIO|CONCEPT\_BIOMONIOR III study)

Visible P-waves support quick evaluation of cardiac rhythm



Visible P-waves at sinus rhythm

Clearly visible P-waves in the vast majority of patients<sup>3</sup>



## 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 %<sup>1</sup>



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 monitoring<sup>2</sup>

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

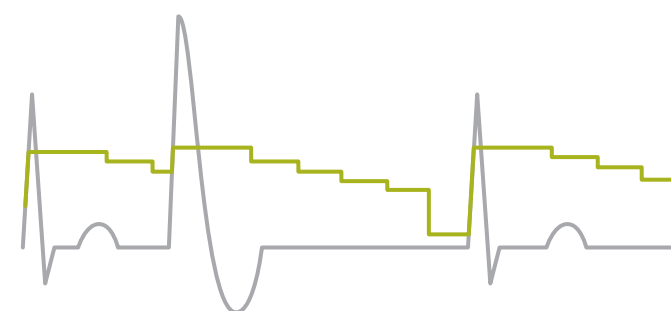
Asystole duration (s)	3
SRD rate decrease	50
SRD sensitivity	low
Bradycardia zone limit	35
Bradycardia duration	20
HVR limit	160
HVR counter	16
AF sensitivity	low
RR variability limit	12
Confirmation time	10
Bigeminy rejection	agressive



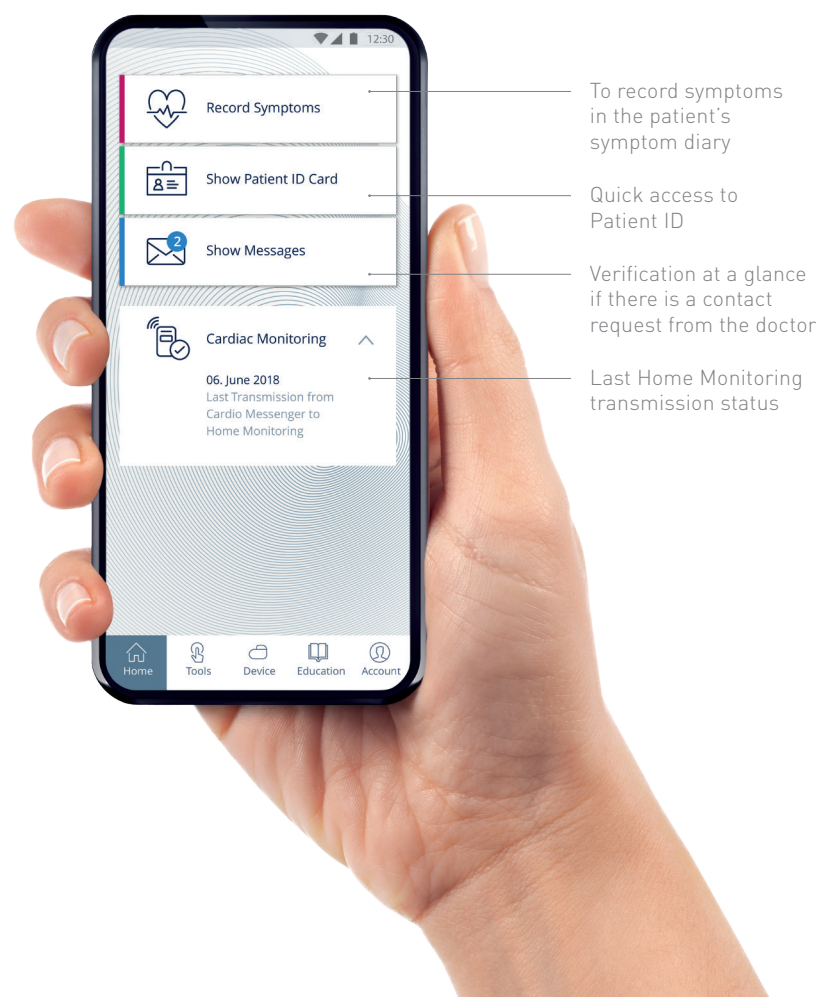
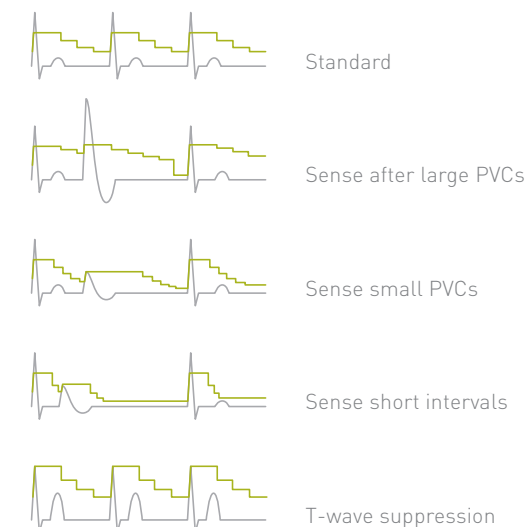
### Quick sensing optimization with SensingConsult

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

#### Sensing threshold profile



- Threshold profile
- Rhythm



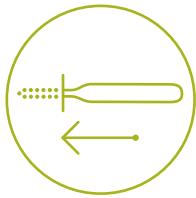
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## Cardiac Monitoring. Made Clearer.



**Unique BIOvector Design**

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**One-Step Injection.**  
Ideal for In-Office.

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**High Quality Signal.**  
Easy Rhythm Classification.

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**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.