

BIOMONITOR III

Injectable cardiac monitor



Ordering Information

Model	Order number
BIOMONITOR III	436066
Remote Assistant III	435292

Product Highlights

One-step injection procedure

BIOvector for reliable arrhythmia detection

High quality signal, easy rhythm classification

Excellent ECG display due to lossless signal compression

Additional clinically relevant information due to AF-ECG episodes with details regarding onset and termination

Intelligent memory management

ProgramConsult

BIOTRONIK Home Monitoring®

4 years of longevity


ProMRI

Full-body MR scan with 1.5 T & 3.0 T

BIOMONITOR III

Technical Data

Sensing parameters	
ECG quality	8 bit – 128 Hz bandwidth
R-wave sensing	Detection based on 1-vector ECG signal
Detection settings	
Atrial fibrillation - Detection	
Atrial fibrillation (AF)	OFF; ON
AF sensitivity	Low; Medium; High; Individual
Detection/termination window size	8/16; 16/24; 24/32
Detection intervals	5 ... (2) ... 23
Number of detection windows	1 ... (1) ... 4
Termination intervals	1 ... (2) ... 7
Number of termination windows	1 ... (1) ... 4
RR variability limit	6 ... (3) ... 18%
Confirmation time	1 ... (1) ... 6; 10 ... (10) ... 30 min
Bigeminy rejection	OFF; Standard; Aggressive
High ventricular rate - Detection	
High ventricular rate (HVR)	OFF; ON
HVR limit	100 ... (10) ... 200 bpm
HVR counter	8 ... (4) ... 24; 32; 48 cycles
Bradycardia - Detection	
Bradycardia	OFF; ON
Brady zone limit	30 ... (5) ... 80 bpm
Brady duration	5 ... (5) ... 30 s
Sudden rate drop - Detection	
Sudden rate drop (SRD)	OFF; ON
SRD rate decrease	20 ... (10) ... 70%
SRD sensitivity	Low; Medium; High; Individual
Baseline intervals	48; 64; 128; 256
Rate-drop intervals	8; 16; 32
Asystole detection	
Asystole	OFF; ON
Asystole duration	2 ... (1) ... 10 s
Patient trigger	OFF; ON
Indication-based programs	
ProgramConsult	Syncope; Palpitations; AF monitoring; Cryptogenic stroke
Sensing settings	
SensingConsult	Standard; Sense after large PVCs; Sense small PVCs; Sense short intervals; T-wave suppression
Sensing filter	4.5; 10; 18; 24 Hz
[SECG] Display	Normal; Inverted
[SECG] Signal filter	0.05; 0.5 Hz
Resting rate period	
Start resting period	00:00 ... (01:00) ... 23:00 hh:mm
Resting period duration	1 ... (1) ... 12 h
Storage parameters	
Total storage capacity	At least 60 min
Number and duration of episodes	60 episodes (56 automatically triggered, 4 patient-triggered)
Automatically triggered ECGs	56 episodes, at least 40 s each (at least 30 s before and 10 s after the event trigger)
Patient-triggered ECGs	4 episodes, at least 7.5 min each (7 min before and 30 s after the event trigger)
Intelligent memory management	
Patient-triggered episodes	4 overwrite-protected: 4 most recent
HVR episodes	3 overwrite-protected: oldest, most recent, longest
Bradycardia episodes	3 overwrite-protected: oldest, most recent, longest
SRD episodes	3 overwrite-protected: oldest, 2 most recent
Asystole episodes	3 overwrite-protected: oldest, 2 most recent
AF episodes	3 overwrite-protected: oldest, most recent, longest

Diagnostics	
Event messages and counters	Atrial fibrillation (AF)
	High ventricular rate (HVR)
	Bradycardia
	Sudden rate drop (SRD)
	Asystole
	Patient trigger
AF details	Longest AF episode
	AF burden
	AF trend
	AF time of occurrence
	AF duration
	Ventricular rate during AF
Activity	Activity trend
	Mean and resting rate trends
	Heart rate variability
	Rate histogram
Sensing	R-wave trend
	Noise duration trend
Housing	
Sensing vector length	70 mm
Dimensions [WxHxL] (overall)	77.5 mm x 8.6 mm x 4.6 mm
Dimensions [WxHxL] (housing)	47.5 mm x 8.3 mm x 4.3 mm
Weight	4 g
Volume (overall)	1.9 cm ³
Volume (housing)	1.7 cm ³
X-ray identification	
Electrode coating	Fractal iridium coating
Service time	
Average service time	4 years ¹⁾
Battery charge	Display 0 – 100%
1) 6-month storage period Home Monitoring: ON; sensing: 60 bpm; daily device message via Home Monitoring including one automatic subcutaneous ECG per day and 2 patient-triggered subcutaneous ECGs per month	
MR conditional	
ProMRI	Please refer to the technical manual "ProMRI MR conditional device systems" for detailed information
Without scan exclusion zone and post-operative waiting period	1.5 T and 3.0 T
Tools	
FIT OneStep injection tool	201 mm x 24 mm (Ø handle)
Incision tool	130 mm x 13 mm (Ø handle)
Remote Assistant III	
Dimensions [WxHxL]	96 mm x 58 mm x 20 mm
Weight	85 g
Battery type	2 x LR1, alkaline-manganese battery; Inaccessible to the user; Not replaceable
BIOTRONIK Home Monitoring®	
Programmer settings	
Home Monitoring	OFF; ON
Time of transmission	STD; 00:00 ... (00:30) ... 23:30 hh:mm
Home Monitoring Service Center settings	
Periodic subcutaneous ECG for Home Monitoring-supported follow-up	OFF; daily, 7 ... (1) ... 366 days
Transmitted data	
Clinical and technical data	Battery status, programmable parameters, diagnostic data and patient data, recorded subcutaneous ECGs
ECG	Up to 6 per day