BIOMONITOR IV

Injectable Cardiac Monitor

Ordering Information

Model	Order Number
BIOMONITOR IV	471155
Remote Assistant III	435292

Product Highlights

SmartECG: AI and advanced algorithms to reduce false AF, Brady, Tachy and Pause detections

Remotely programmable SmartECG filters

On-demand transmission, same-day availability of symptom episodes

PVC and PAC burden discriminators for accurate risk stratification

BIOTRONIK Home Monitoring® with indication-based templates

Enhanced Quick View for streamlined report review

BIOTRONIK Patient App for symptom-rhythm correlations

BIOvector for industry-leading signal quality, 99% noise-free sensing, 95.1% P-wave visibility

5 years of longevity

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BIOMONITOR IV

Technical Data

Arrhythmia Detection	
Detection types	Atrial fibrillation (AF); Tachycardia; Bradycardia; Sudden rate drop; Pause
Advanced algorithms	Bigeminy rejection and RhythmCheck for AF
	SmartECG for AF, Bradycardia, Tachycardia, Pause
	Day and night brady rate via SmartECG
Indication-Based Programs	
ProgramConsult	Syncope; Palpitations; AF monitoring; Cryptogenic stroke
Sensing Profiles	
SensingConsult	Standard; Sense after large PVCs; Sense small PVCs; Sense short intervals; T-wave suppression
Storage Parameters	
Total storage capacity	At least 67 min, 60 episodes
Automatically triggered ECGs	56 episodes, at least 40 s each (at least 30 s before and 10 s after the event trigger)
Symptom ECGs	4 episodes, at least 7.5 min each (7 min before and 30 s after the event trigger)
Intelligent Memory Management	
Symptom episodes	4 overwrite-protected: 4 most recent
Tachycardia episodes	3 overwrite-protected: oldest, most recent, longest
Bradycardia episodes	3 overwrite-protected: oldest, most recent, longest
Sudden rate drop episodes	3 overwrite-protected: oldest, 2 most recent
Pause 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)
	Tachycardia
	Bradycardia
	Sudden rate drop (SRD)
	Pause
	Symptom
AF details	Longest AF episode
	AF burden
	AF trends
	AF time of occurrence
	AF duration
	Ventricular rate during AF
	PVC burden
	PAC burden
Activity	Activity trend
	Mean and resting rate trends
	Heart rate variability
	Rate histogram
	Body temperature trend
Sensing	R-wave trend
	Noise duration trend
MR Conditional	
ProMRI	1.5 T and 3.0 T without scan exclusion zone and post-operative waiting period
Please refer to the technical manual "ProMRI MR Conditional device systems" for detailed information	
Compatible Devices	
Programmer	Renamic Neo; Renamic
Remote Monitoring	BIOTRONIK Home Monitoring System with CardioMessenger Smart transmitter
Symptom Marking	Remote Assistant III transmitter for manual triggering by patient; BIOTRONIK Patient App

Contents of Package	
BIOMONITOR IV Insertable Cardiac Monitor (preloaded in FIT OneStep injection tool)	
Incision Tool	
FIT OneStep Injection Tool	
Product Documentation	
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
Electrode coating	Fractal iridium coating
Service Time	
Average service time	5 years[1]

[1]6-month storage period
Sensing: 60 bpm; daily device message via Home Monitoring including one automatic subcutaneous ECG per day and 2 patient-triggered subcutaneous ECGs per month

SmartECG

Intelligent filtering to reduce false positives for	Atrial fibrillation (AF); Tachycardia; Bradycardia; Pause
Remotely programmable SmartECG filters	AF filtering
	Brady day rate limit
	Brady night rate limit
	Brady duration
	Tachy limit
	Tachy counter
	Pause duration

BIOTRONIK Home Monitoring®

Home Monitoring Service Center Settings	
Periodic subcutaneous ECG for Home Monitoring-supported follow-up	OFF; 7 ... (1) ... 366 days
Indication-based templates	Syncope; Palpitations; AF monitoring; AF management; Cryptogenic stroke
Transmitted Data	
Clinical and technical data	Battery status, programmable parameters, diagnostic data and patient data, recorded subcutaneous ECGs
ECG	Up to 6 per day
Immediate transmission capability	On-demand transmission of up to 2 symptom patient-triggered episodes per day

BIOTRONIK Patient App

Functionalities
Symptom diary
Electronic Patient ID
Contact request function (via Home Monitoring Service Center)
Home Monitoring transmission status and troubleshooting help
Battery and device status
Vital data (mean heart rates)

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