

**32 DAYS** of Intelligent ECG  
Signal Processing Condensed  
in **40 GRAMS**

**2 ELECTRODES  
ONLY** for  
Unmatched Comfort

**CM5 LEAD** for  
Optimal Signal Quality  
and Ischemia Diagnosis

The **Ultimate Reference** in  
Real Time Detection of Cardiac Events

The Unique Heritage of the **R-TEST 4**  
in terms of **ERGONOMY & PERFORMANCE\***  
combined with a **NEW DIAGNOSIS POWER**  
make it the **UNDISPUTED REFERENCE**  
in Real Time Ambulatory ECG Diagnosis

\* (1) Roche F et al. Accuracy of an automatic and patient-triggered long-term solid memory ambulatory cardiac event recorder. *The Am J Cardiol*. 1997;80:1095-098  
(2) Balmelli N et al. Efficacy of an automatic and patient-triggered long-term solid memory ambulatory cardiac event recorder in the evaluation of 101 patients with palpitations or syncope. *Clin. Cardiol*. 2003;26:173-76  
(3) Roche F et al. Frequent and prolonged asymptomatic episodes of paroxysmal atrial fibrillation revealed by automatic long-term event recorders in patients with a negative 24-hour Holter. *Pacing Clin Electrophysiol* 2002 Nov;25:1587-93  
(4) Barthélémy JC et al. Automatic Cardiac Event recorders reveal Paroxysmal Atrial Fibrillation after Unexplained Strokes or Transient Ischemic Attacks. *A.N.E* 2003;8:194-99.  
(5) Jabaudon D et al. Usefulness of ambulatory 7-Day ECG monitoring for the detection of atrial fibrillation and flutter after acute stroke and transient ischemic attack. *Stroke* 2004;35:1647-51

#### R-Test Evolution 4

#### ECG recorder

Type of recorder	Automatic Recorder/ ECG Arrhythmia Detection Heart Rate trend Manual Recording of symptomatic episodes
Type of events (automatic mode)	Supraventricular and Ventricular QRS, (Isolated, Couplets, Triplets and Runs) Absolute and Relative Pauses Bradycardia, Tachycardia, ST shifts, Atrial Fibrillation Manual Marker
Events Duration	Programmable from 10s to 60 min, with pre-event minimum 5s, maximum 5 min, post-event minimum 5s, maximum 59 min 55s (Loop memory)
• Automatic mode	Pre-event 0 + post-event 30s to 60min
• Manual mode only	
Total Duration of recording	60min
• ECG events	32 days
• Heart rate and histograms trend	
Maximum Duration of procedure	
• Automatic mode	32 days
• Manual mode only	2 months
Number of channels	1
Data Storage	Non-volatile Stable Memory
Memory Lifetime	10 billion cycles
Sampling and analysis	200 Hz
Vertical resolution	10bits
Precision of the ECG in duration	± 2.5 ms
Precision of the ECG in voltage	± 6 µV
Storage	100 Hz
PC connection	USB2.0 Full Speed

#### CHARACTERISTICS

Electrical Supply	2 x zinc-air 1.4 V - 640 mAh batteries
Overall Length	60 mm
Overall Width	48 mm
Overall Height	28 mm
Weight batteries included	40 g
Index IP (with ECG cable in place)	IPX4
Storage / Operating temperature	-20°C +45°C / +10°C +45°C
Storage / Operating humidity	10% -> 95% no condensation / 10% -> 99%
Storage / Operating pressure	500hPA -> 1060hPA / 700hPA -> 1060hPA

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**NOVACOR**

4, passage Saint Antoine - 92500 Rueil Malmaison - France  
Tél. +33 (0)1 41 39 01 61 - Fax +33 (0)1 41 39 01 99  
www.novacor.com

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**R-TEST**  
*Evolution* **4**



The **Ultimate Reference**  
in Real Time Detection  
of Cardiac Events

**NOVACOR**



The Accomplishment of over **30 years** of NOVACOR  
 Unique Experience in Ambulatory ECG Analysis



RTSOFT R-TEST 4 New Capabilities include  
**AUTOMATIC** Real Time ECG recording of  
 All types of Asymptomatic Complex  
 Arrhythmias or Ischemic Episodes as well  
 as Patient triggered Symptomatic events  
 (Palpitation, Dizziness, Chest pain...)

RTSOFT R-TEST 4 Innovative Features make it the most  
**COST EFFECTIVE** Clinical Tool in Ambulatory ECG Diagnosis

- **EXTENDED CONTINUOUS MONITORING DURATION** for an Unmatched Diagnosis Yield
- **OPTIMIZED MONITORING DURATION** at Physician Request for Specific Event Search
- **EXPANDED MEMORY** for Additional ECG Evidence
- **INTUITIVE INTERFACE** for User Friendliness
- **INSTANT DISPLAY** of Full Report for more Efficiency

## THE ULTIMATE REFERENCE in Real Time Detection of Cardiac Events



### ADVANCED TECHNOLOGY

- Fully embedded Wavelet analysis for superior ECG signal processing
- Optimization of Recording Duration according to Clinical Search Settings
- Up to 32 Days of Continuous Monitoring and Recording
- High Speed Data Transfer
- Compact, Lightweight, Water Resistant Device

### OUTSTANDING CLINICAL PERFORMANCE

- New High Performance ECG Analysis (Normal, Ventricular, Supraventricular and Paced Beats Labeling)
- Expanded Detection of Asymptomatic Events
  - Pauses, VTn SVPT, Tachy, Brady, Triplet, Couplet
  - Ischemia detection
- Atrial Fibrillation optimized detection
- 100% QRS Detection and Classification
- Continuous Assessment of the most significant Strips during the Total Recording thanks to a Sophisticated Algorithm based on years of Development and Testing



### EFFICIENT DIAGNOSIS

- HIGH SPEED Programming and Communication Protocols
- TIME SAVING DISPLAY of Clinical Highlights
- COMPLETE RR TREND & HISTOGRAMS (for each event category) of the Entire Recording
- POWERFUL Data Management

