

R.TEST *Evolution* 4



The Ultimate Reference
in Real Time Detection
of Cardiac Events



The Culmination of over **30 years** of NOVACOR'S Unique Experience in Ambulatory ECG Analysis



- **R-TEST Evolution 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
(Palpitations, Dizziness, Chest pain...)
- **R-TEST Evolution 4** Innovative Features make it the most
COST EFFECTIVE Clinical Tool in Ambulatory ECG Diagnosis
 - **EXTENDED CONTINUOUS MONITORING DURATION**
for an Unmatched Diagnostic Yield
 - **OPTIMISED MONITORING DURATION CONTROL**
at Physician's Request, to match clinical need
 - **EXPANDED MEMORY** for Additional ECG Evidence
 - **INTUITIVE INTERFACE** for User Friendliness
 - **INSTANT DISPLAY** of Full Report for Increased Efficiency

THE ULTIMATE REFERENCE in Real Time Detection of Cardiac Events



ADVANCED TECHNOLOGY

- **Fully embedded Wavelet analysis** for superior ECG signal processing
- **Optimisation of Recording Duration** according to flexible Clinical 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 Beat Labeling)
- **Expanded Detection of Asymptomatic Events**
 - Pauses, VT, SVPT, Tachy, Brady, Couplet, Triplet
 - Ischemia detection
- **Atrial Fibrillation** optimised detection
- **Accurate** 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

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- The screenshot displays the Philips WaveLab software interface for ECG analysis. On the left, the 'Procedure list' shows 'DEMO TV - Pases'. The 'Procedure ongoing' section lists various events: VT (5), Ventricular triplet (0), Isolated ventricular (17), PSVT (0), Supraventricular triplet (0), Supraventricular couplet (1), Isolated supraventricular (8), Absolute Pause (6), Relative Pause (0), Tachycardia (0), Bradycardia (0), ST Shift (2), Atrial fibrillation (0), Marker (0), and User event (0). The 'Pages' section includes a 'Heart rate chart' and a 'Recorded events' list. The 'Recorded events' list shows: VT (31/03/2011 15:41:23), Isolated ventricular (31/03/2011 15:41:23), and Supraventricular couplet (31/03/2011 15:41:23). The main display area shows a 'Ventricular couplet' event with a corresponding ECG strip. The bottom of the screen shows a detailed ECG strip with a 'Ventricular couplet' event highlighted.

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

2 ELECTRODES
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 DESIGN & PERFORMANCE*
combined with its NEW DIAGNOSTIC POWER
makes 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	
• Automatic mode	Programmable from 10s to 60 min, with pre-event minimum 5s, maximum 5 min, post-event minimum 5s, maximum 59 min 55s (Loop memory)
• Manual mode only	Pre-event 0 + post-event 30s to 60min
Total Duration of recording	
• ECG events	60min
• Heart rate and histograms trend	32 days
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
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 Depth	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% (non condensing) / 10% --> 99%
Storage / Operating pressure	500hPA --> 1060hPA / 700hPA --> 1060hPA

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