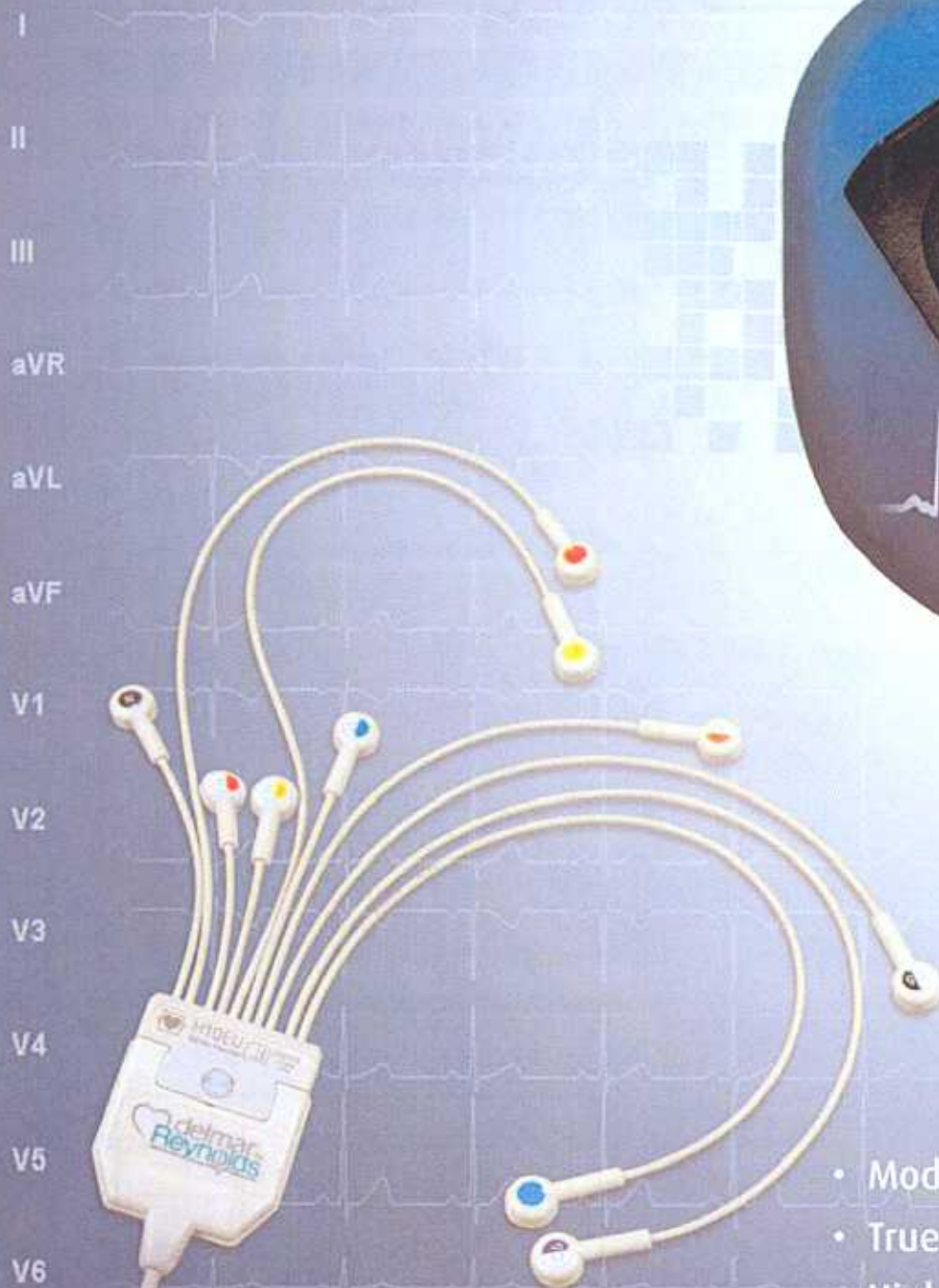




# 12-Lead Holter Solutions

12 LEAD DIGITAL HOLTER RECORDER & SOFTWARE



- Modular 12-Lead Digital Holter
- True 12-Lead Holter
- High Quality ECG
- Easy to use software

Comfortable and unobtrusive for the patient ▶



## 12-Lead Holter Solution from Del Mar Reynolds Medical

Del Mar Reynolds offers a flexible and modular system, providing high resolution 12-Lead ECG from Holter. This is achieved by the combination of a modular recorder solution, and software options for our range of Holter systems. This modular approach

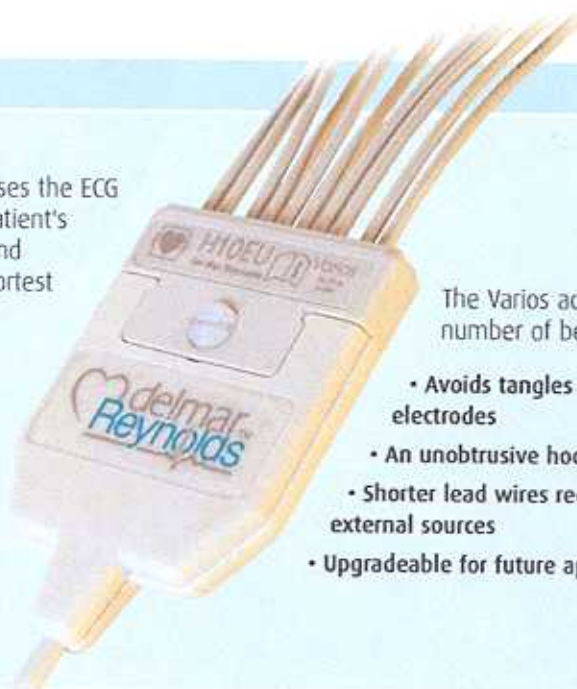
ensures that 24 hour 12-Lead ECG functionality, can be added to any Lifecard CF recorder simply by using the Varios active yoke, patient cable, and installation of the 12-Lead Holter software.

## Lifecard 12

### Varios

The lightweight Varios yoke houses the ECG amplifiers and is worn on the patient's sternum, giving a comfortable and unobtrusive hookup with the shortest possible lead-wires.

The yoke is controlled and powered by the Lifecard CF recorder which also provides a built-in hookup monitor to ensure the highest quality signal is obtained.



The Varios active yoke provides a number of benefits:

- Avoids tangles and lead strain on the electrodes
- An unobtrusive hookup for the patient
- Shorter lead wires reduce interference from external sources
- Upgradeable for future applications

## High Quality Recordings

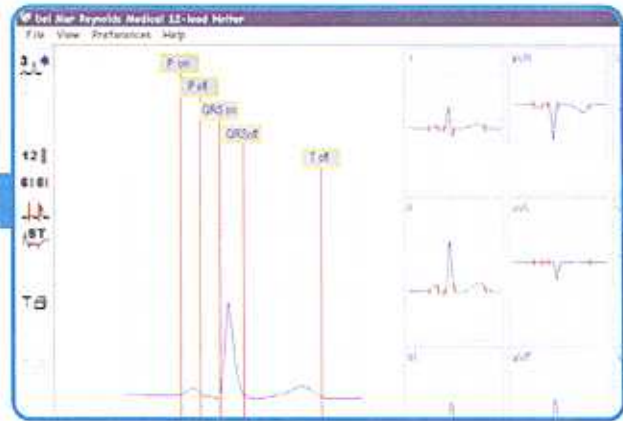
12-Lead Holter provides a number of benefits to clinicians in helping to diagnose complex arrhythmias and ST changes over multiple leads.

Lifecard CF provides the best possible Holter bandwidth ECG by the use of advanced technology:

- 10 electrode patient cable to give true 12-Lead ECG results as opposed to derived results.
- 4096 Hz sampled ECG per lead
- 0.6uV digitization for maximum ECG fidelity
- No data compression



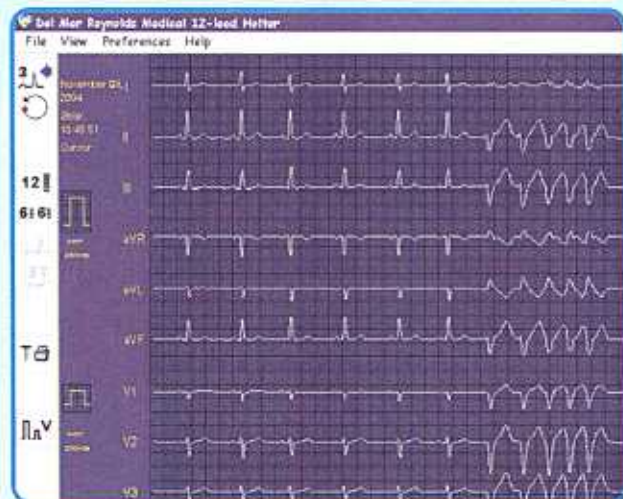
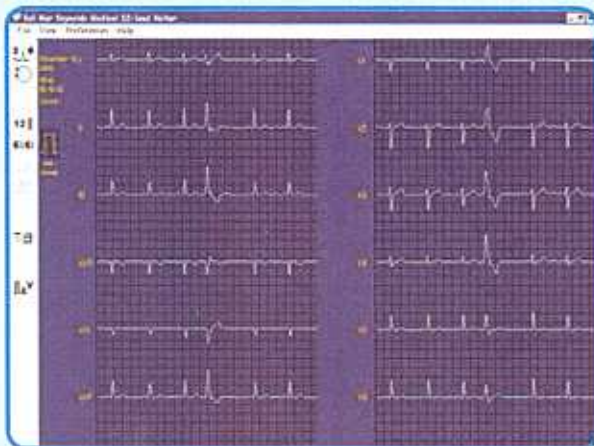
Beat measurement tools ▶



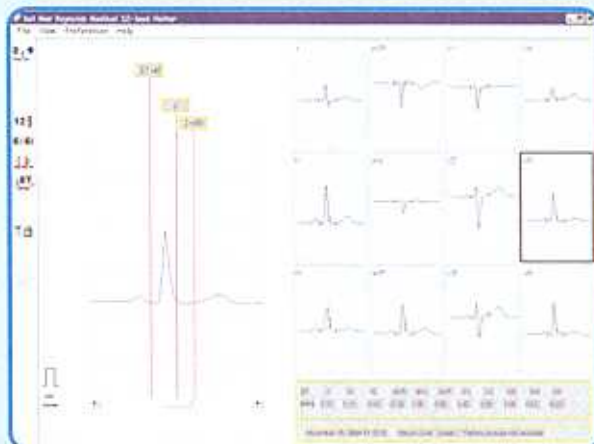
## 12-Lead Holter Option

The 12-Lead Holter software can be added to a Pathfinder or Impresario Holter analysis system. The program provides the interface to view, measure and print the selected ECG from the Holter system, for detailed 12-Lead analysis.

- View the selected ECG in 12-Lead view with a 1 minute pan range
- ECG strip and beat labelling
- Select individual beats to zoom and measure
- Annotate ST segment deviations with reference, J and J+80 controls



- Printout 12 lead ECG and beat complexes within the Holter report
- Measure PQRST intervals
- Adjustable V-Lead gain
- Multiple print formats



Concise 12 lead reports ▶





### Lifecard 12 Specifications

Memory	256MB removable CF card
Procedure	24hr 12 lead Holter recording
Data Compression	None
Sampling Rate	4096 samples per second
Bandwidth	0.05 - 40 Hz
Amplifier Noise Level	0.6uV
Pacemaker Pulse Detection	All Channels
Pacemaker Pulse Sensitivity	2mV
Full compliance	with ANSI/AAMI EC38 Holter Standard with IEC/EN 60601-2-47 Holter standard

### Technical Features

- High quality, high strength shielded cable with ultra-low microphonic noise
- Active Neutral electrode for maximum signal quality
- Electrode failure detection
- Electrode failure tolerant - vital for ambulatory procedures
- Protected against defibrillation
- Protected against fluids and wet cleaning processes
- Rugged design with all standard Lifecard CF features

### Software Specifications

- Arrhythmia and ST analysis of any 3 leads
- Display the selected ECG in 12 leads with a 1 minute pan range
- ECG can be viewed in 12 x 1 or 2 x 6 formats on screen.
- Measurement Calipers for P-width, PR-interval, QRS width, QT-interval with automatic measurement table generation.
- ST measurement, reference, J point, J+80 and beat labels
- Options to store the 12 lead reports, ECG strips or recording

### Print Formats:

- Portrait 3 x 4 user selected 12 lead beats with measurements and 3 lead 25mm/s rhythm strip overview
- Portrait 12 x 1 single complexes with ST measurements printed adjacent to the ECG in each channel.

[www.delmarReynolds.com](http://www.delmarReynolds.com)



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Holter Monitoring