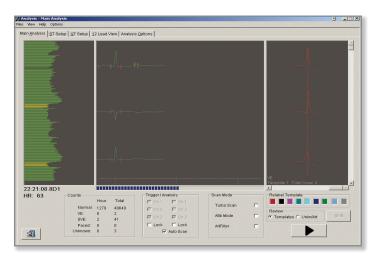
Millennia 2000 Holter Analysis System

BîoTelemetry*

Holter analysis software featuring a suite of prospective and retrospective analysis tools for fast and accurate processing of Holter recordings

Biotelemetry Technology has scanned more than 2 million tests using our family of proprietary Holter analysis software for more than 35 years. Through real-world experience, we've acquired a thorough knowledge of what our clients need giving Biotelemetry Technology an advantage in developing and engineering Holter analysis systems. The Millennia 2000 Holter analysis software is designed for facilities that prefer the ability to interact with the system prospectively as the arrhythmia analysis is performed.



Prospective analysis provides the user with the ability to view and interact with the system as computerized analysis of the ECG is performed.

Analysis parameters can be changed on the fly.

Prospective interactive analysis of ECG

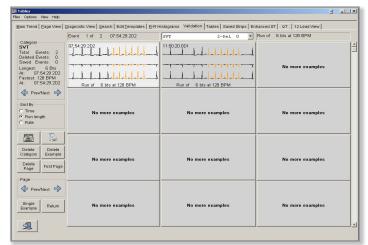
The Millennia 2000 system features prospective interactive analysis that allows the operator to view the results of the algorithm's QRS labeling decisions as the ECG data is being analyzed. The user can interact with the system at any time to adjust analysis channels, re-label beat templates, or change other parameters on the fly. This ability to fine-tune the computerized analysis of the Holter data being processed can greatly reduce the amount of editing needed at the conclusion of a scan, and help the system deal more effectively with noisy recordings or complex morphologies.

ain Trend Page View	Diag	nostic View	gearch E	dit <u>T</u> emp	lates R-	R Histogran	ns <u>V</u> alidatio	n Tables	Saved Strip	s <u>E</u> nhance	d ST Edit QT	12 Leads	
Select Table	#	Time Ending	HR Low	HR Mean	HR High	SVE Total	SVE	SVE Paired	SVT Beats	SVT Events	Sustained SVT	% Afib	
C General	1	11:00p1	53	72	107	3	3	0	0	0	0	0.00	
	2	12:00D1	59	76	101	7	1	0	6	1	0	0.00	
C Ventricular	3	13:00D1	54	64	78	0	0	0	0	0	0	0.00	
	4	14:00p1	55	67	93	4	4	0	0	0	0	0.00	
C VT Run length	5	15:00D1	55	67	91	5	5	0	0	0	0	0.00	
C Bradycardia	6	16:00D1	60	71	94	3	3	0	0	0	0	0.00	
	7	17:00D1	53	66	90	2	2	0	0	0	0	0.00	
C Pacemaker	8	18:00D1	50	69	93	2	2	0	0	0	0	0.00	
	9	19:00p1	54	64	84	3	3	0	0	0	0	0.00	
	10	20:00D1	57	68	92	3	1	2	0	0	0	0.00	
	11	21:00p1	54	63	89	1	1	0	0	0	0	0.00	
Recalc Tables Restore Original	12	22:00D1	48	65	89	2	0	2	0	0	0	0.00	
	13	23:00D1	45	60	78	6	6	0	0	0	0	0.00	
	14	00:00p2	42	60	84	7	3	4	0	0	0	0.00	
	15	01:00D2	42	56	82	4	4	0	0	0	0	0.00	
	16	02:00D2	40	55	99	3	3	0	0	0	0	0.00	
Zero Selection	17	03:0002	40	54	95	14	12	2	0	0	0	0.00	
	18	04:00D2	49	70	97	2	2	0	0	0	0	0.00	
	19	05:00p2	56	80	103	2	2	0	0	0	0	0.00	
Tabular Summary	20	06:00D2	66	81	107	2	2	0	0	0	0	0.00	
	21	07:00D2	63	77	96	1	1	0	0	0	0	0.00	
	22	08:00D2	61	76	97	8	0	2	6	1	0	0.00	
Paragraph Summary	23	09:00D2	64	79	102	1	1	0	0	0	0	0.00	
	24	09:37p2	65	83	100	2	0	2	0	0	0	0.00	
	25	Summary:	40	68	107	87	61	14	12	2	0	0.00	
Physician Comments	26												
	27												
	28												
	29												
60	30 €11												

The Table view summarizes normal and ectopic activity by hour, and for the entire recording. Right-clicking on an entry provides an immediate display of all examples from that time and category.

Comprehensive editing and validation tools

When ECG analysis is completed a number of tools are available to the user to quickly edit and print an accurate Holter report. Beat templates can be reviewed and edited using point-and-click commands. Validation mode automatically displays the most significant findings for each scan, providing for fast and easy editing and documentation. A convenient Page mode allows the operator to quickly view areas of the recording and verify the accuracy of the analysis via color-coding of detected abnormal beats.



Validation provides rapid access to all examples of significant events, for verification of analysis accuracy and documentation. This example resulted from right-clicking the total SVT events entry in the Table view.

Millennia 2000 Features and Specifications

Analysis Tools and Capabilities

- All 3 channels visible for arrhythmia analysis, either user-selectable or automatic
- 3-channel ST segment analysis
- QT analysis on any single channel
- Time-domain heart rate variability
- Supports sampling rates from 128 to 1024

Holter Recorder Compatibility

- Braemar DL Series Digital Holter Recorders
- BMS300
- Datrix VX3 Digital Holter Recorders

Final Report Options*

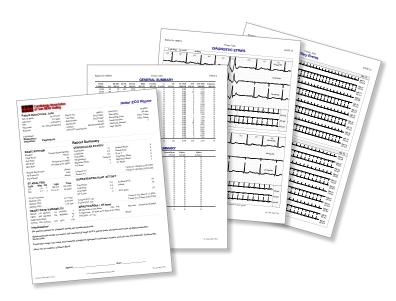
- Cover page (paragraph, tabular, enhanced)
- General table
- Supraventricular ectopy table
- Ventricular ectopy table
- Bradycardia table
- Pacemaker activity table
- ST and heart rate trend
- Ectopy histograms
- Heart rate variability
- Strip list summary
- Diagnostic strips
- Patient event strips
- Significant event strips
- Full disclosure

Millennia 2000 Configurations

The system is available as software only (requires flash card reader or recorder interface cable)

Software Features

- Automated arrhythmia analysis, including both prospective and retrospective editing tools
- Page-mode display with color-coded beat highlighting
- Template editing, with the ability to superimpose within any individual templates
- RR interval histograms and scatter plots
- Validation display, for rapid identification of significant events
- On-screen display of all analysis tables, with validation and editing capabilities
- Point-and-click beat editing



Final reports may be customized for individual physicians or clients, so that each reader receives their unique report format, including a custom logo on the cover page.

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