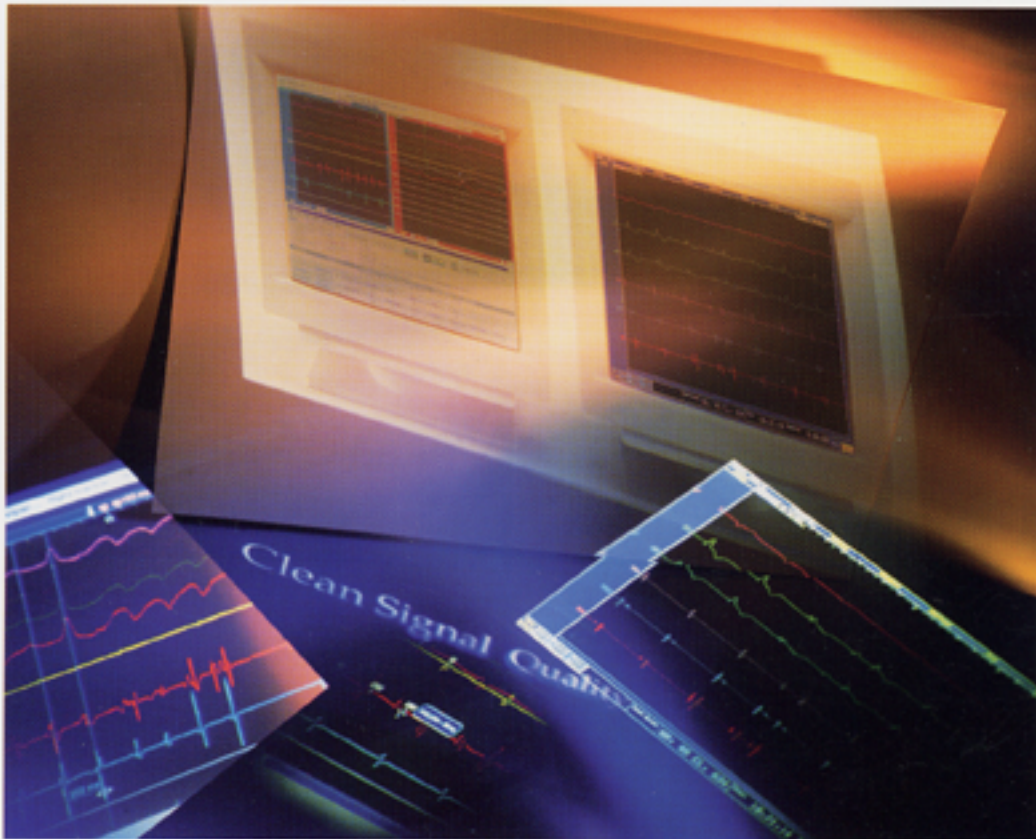
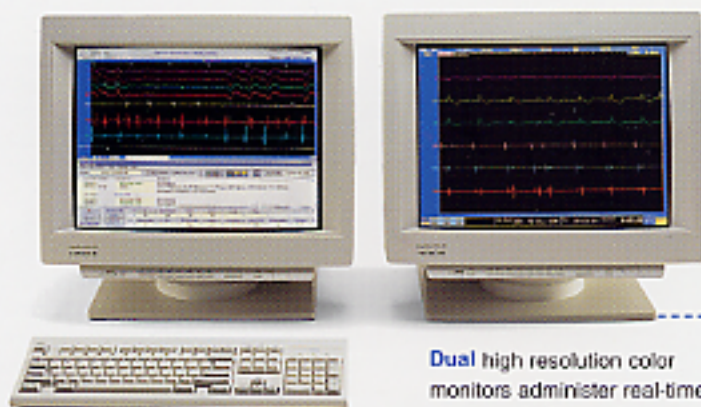




Simultaneous Real-Time and Review

Simultaneous Real-Time and Review



Dual high resolution color monitors administer real-time data acquisition and review

Flexible, powerful, and productive — the new LabSystem Duo EP Laboratory from Bard[®] has an abundance of new and improved features.

The addition of the Review Monitor allows analysis and report generation to occur simultaneously with real-time display and acquisition. Data manipulation performs with unprecedented speed within the true multitasking environment of the IBM OS/2 Warp operating system. This multitasking capacity enables you to record real-time data, open a myriad of windows, perform analytical operations, and/or print simultaneously - without getting bogged down or interrupting a study. These capabilities are not found in DOS environments.

Bard's renowned STAMP[®] Amplifier is the only amplifier that accommodates up to 80 channels. In addition, the 16-bit A/D converter provides the highest signal resolution available. In practical terms, higher resolution translates into smoother and more realistic waveforms.

New software features simplify everything from channel setup to report generation. The new Review Screen enables operators to scroll through studies, immediately access any data point, perform any analytical function, and view or generate a report with unparalleled ease. The software comes preconfigured for immediate application and offers an increased capacity for individual customization.

In essence, the LabSystem Duo enables faster, easier, and more accurate execution of electrophysiology procedures.

The modular STAMP Amplifier accommodates up to **80 channels** with 16-bit resolution for **clean signal quality**



3 button trackball provides **seamless cursor movement** between monitors



Easy point-and-click and drag-and-drop operations



The speed of an **Intel Pentium** processor and **IBM OS/2 Warp** environment for true multitasking



The LabSystem Duo is noted for its processing speed, exceptional signal quality, and **easy software navigation**

The LabSystem Duo has an ergonomically designed cart with locking wheels. Color monitors sit on independent swivels. The keyboard retracts during transit or storage and the printer resides on a sliding drawer, providing quick and easy access.



A laser printer with **expanded memory** for fast printing of text and images.

Prints both paper and transparencies for overheads.

A new **Report Generator** automatically inserts your data into report templates and creates your reports as you work.



Features

■ Unsurpassed Signal Quality

The 16-bit data acquisition of the STAMP Amplifier plots more accurate data points than 12-bit systems, providing cleaner, smoother, and more realistic waveforms

■ Accuracy

72 IC channels via 144 inputs provide the accuracy you need for those increasingly intricate mapping procedures

■ Speed

The fast data manipulation of the Intel Pentium processor combines with the true multitasking capabilities of the IBM OS/2 Warp operating system to give you a system that will not bog down, regardless of how you challenge it

■ Flexibility

Data can be analyzed within seconds of acquisition or stored for later analysis; select preconfigured or customized channel configurations; view these choices via any of 8 display pages

■ Expandability

The modular construction of the STAMP Amplifier enables you to expand up to 80 channels

■ Ease-of-use

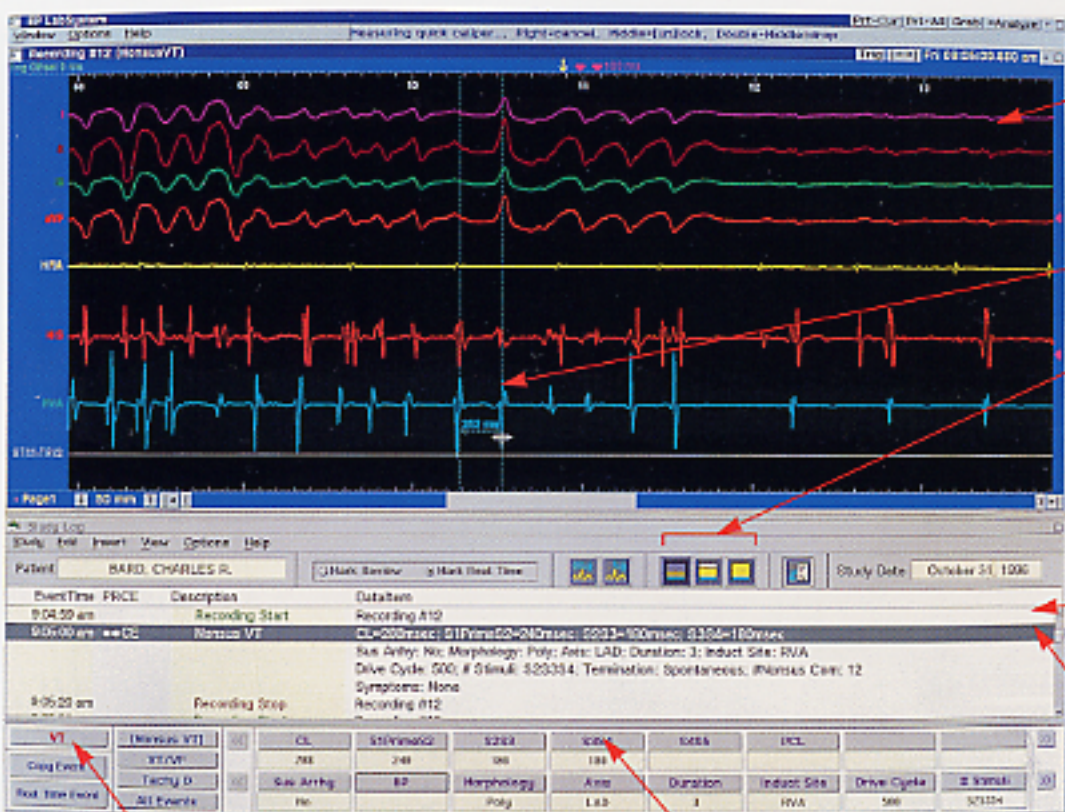
Simple pull-down menus, trackball or hot key commands

■ Easy Upgrades

The LabSystem Duo enables you to upgrade components now and in the future

Review and Analysis

The Review Screen contains three components: the Waveform Window, the Study Log, and the Event Tool Bar. The Study Log is the center of review, analysis, and reporting functions. You can perform tasks on the Review Screen without impeding real-time activities.



The **Waveform Window** is a continuous recording, enabling you to scroll at user-defined rates to any data point.

Calipers measure and automatically record intervals.

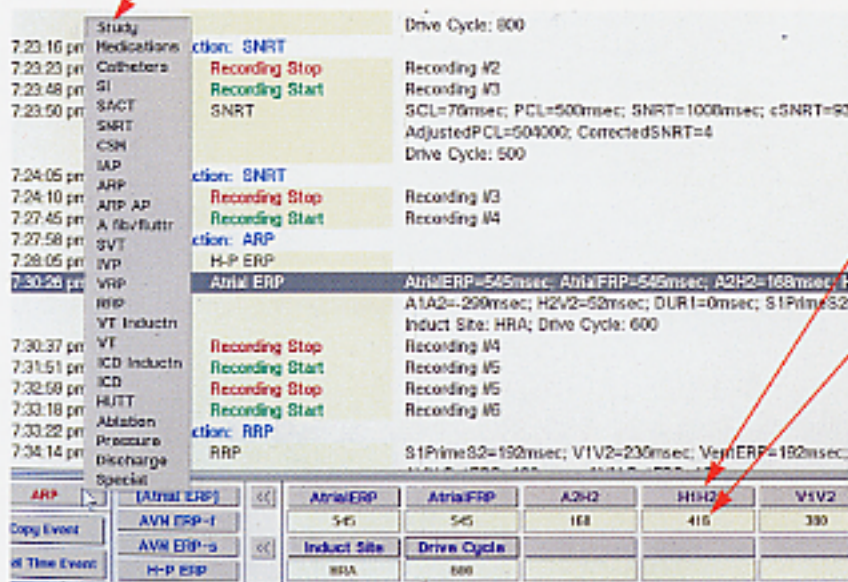
Alter the proportion of the study log display.

The **Study Log** lists events in chronological order. Rapidly scroll to any time or event.

Click on a highlighted event to display the corresponding waveform window.

Display the **Action Pop-Up Menu** and select Action of choice. Upon Action selection, the Event Tool Bar displays the pertinent set of labeled intervals and events.

Event Tool Bar: Use the menu buttons to measure waveform window intervals with calipers. The intervals contained in the Event Tool Bar vary according to the currently selected event.



Event Button: Prompts display of calipers for measuring a particular interval.

Measured interval values automatically appear here.

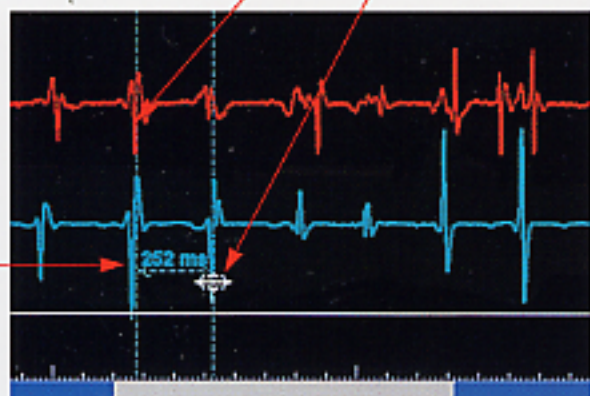
Values are simultaneously recorded in the Waveform window, the Study Log, and the Report Generator.

Keyboard entry is an option.

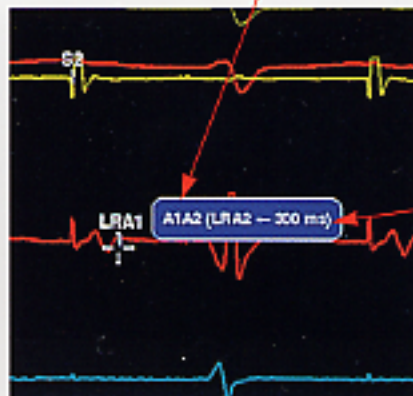
Click to set initial point and activate measurement.

Values automatically calculate as you move the cursor left or right of initial point.

Place the cursor on existing markers and a balloon appears containing interval values.



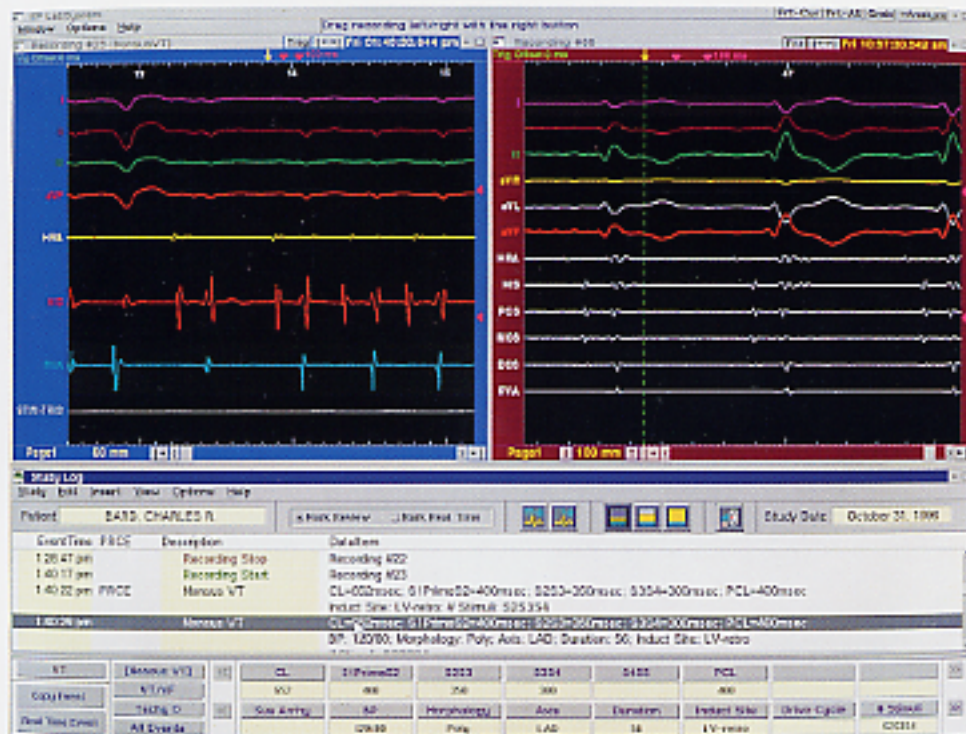
The calipers provide accurate measurement and easy recalculation.



Upon completion of each measurement, a marker appears.

Drag the markers to different positions and values automatically recalculate.

The Trigger Screen, shown here in comparison mode, enables you to easily compare waveform morphologies during pace mapping. Quickly jump from one trigger window to the next with a single keystroke. Scroll through the entire event's recording from within any comparison window. Trigger and mapping operations do not interfere with concurrent real-time data recording.



Border colors quickly identify window function.

A Rust border outlines the trigger screen.

A Blue border outlines the active screen. The border turns Gray when inactive.

Trigger Screen features

- View up to 6 Waveform Windows
- Freeze Trigger Screens for easy measurement
- Adjustable Trigger Offset: Optionally re-align waveforms according to your visual preference
- Reference Calipers

Real-Time Display

The Basic Real-Time Screen allows you to display and record real-time data. Select from eight pages of preconfigured or customized lead groups.

Page Indicator:

Denotes current page number. Instantly switch between 8 preconfigured or customized pages of lead groups.

Channel Labels:

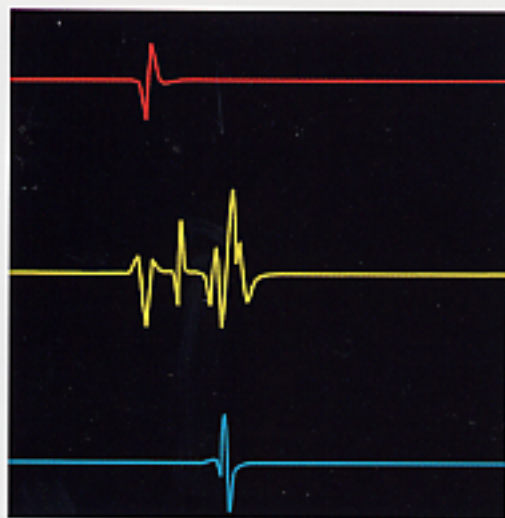
Simply drag-and-drop channel labels to reposition waveforms on the screen.

Start/Stop Recording:

Toggle this icon to start or stop data recording.

Retroacquire:

Capture events that passed by unrecorded.



Signal Quality

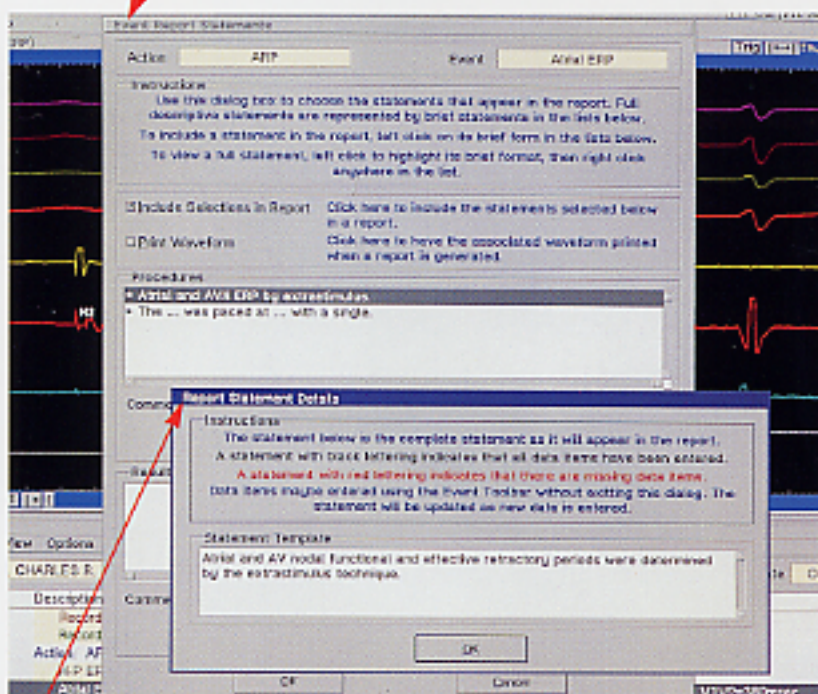
The essence of any EP system is signal clarity. In this domain, LabSystem Duo remains unsurpassed. The STAMP Amplifier's 16-bit A/D converter results in sixteen times the signal resolution of a 12-bit system.

The 16-bit resolution provides a smoother, more realistic waveform that is easier to analyze accurately.

Report Generation

The new **Report Generator** automatically creates reports as you analyze your studies. Simply select electrograms you wish to include, either at the time of analysis or later. Notes and comments can be entered at any time in the **Event Report Statement**, shown below. Comments are automatically stored with their respective study log item. You can preview a report at any time.

The **Event Report Statement** window enables you to record extensive comments about procedures, results, and conclusions any time during the procedure. Include or exclude these comments from the final report.



A quick glance at **Report Statement** informs you of any missing data.

Print preformatted text reports, screen shots, and electrograms.



Data and Laboratory Management

The LabSystem Duo EP Laboratory owes its storage and reporting capabilities to its versatile DB2 database. The database is formatted in the newest standard - the Standard Query Language (SQL) - and is compatible with most existing databases.

Beyond clinical application, the SQL database serves as an aid in laboratory management. This information can be used to help manage laboratory operations, such as inventory control, or to justify expenditures and quantify productivity.

Training and Support

Bard is committed to serving the needs of our customers. Along with installation of your LabSystem Duo, we also provide training and support. Follow-up training is provided under warranty or service contract whenever you need it, whether due to personnel turnover, changes in qualification requirements, or the need for greater proficiency.

The strength of Bard's technical support is based on our expertise in electrophysiology. Bard is the only company that offers products extending over the entire signal path. We manufacture and support both catheters and analysis systems. Our staff of technical experts are never more than a phone call away.

To learn more about the LabSystem Duo, call your local Bard representative.



For additional information on LabSystem Duo please contact your local Bard representative:

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