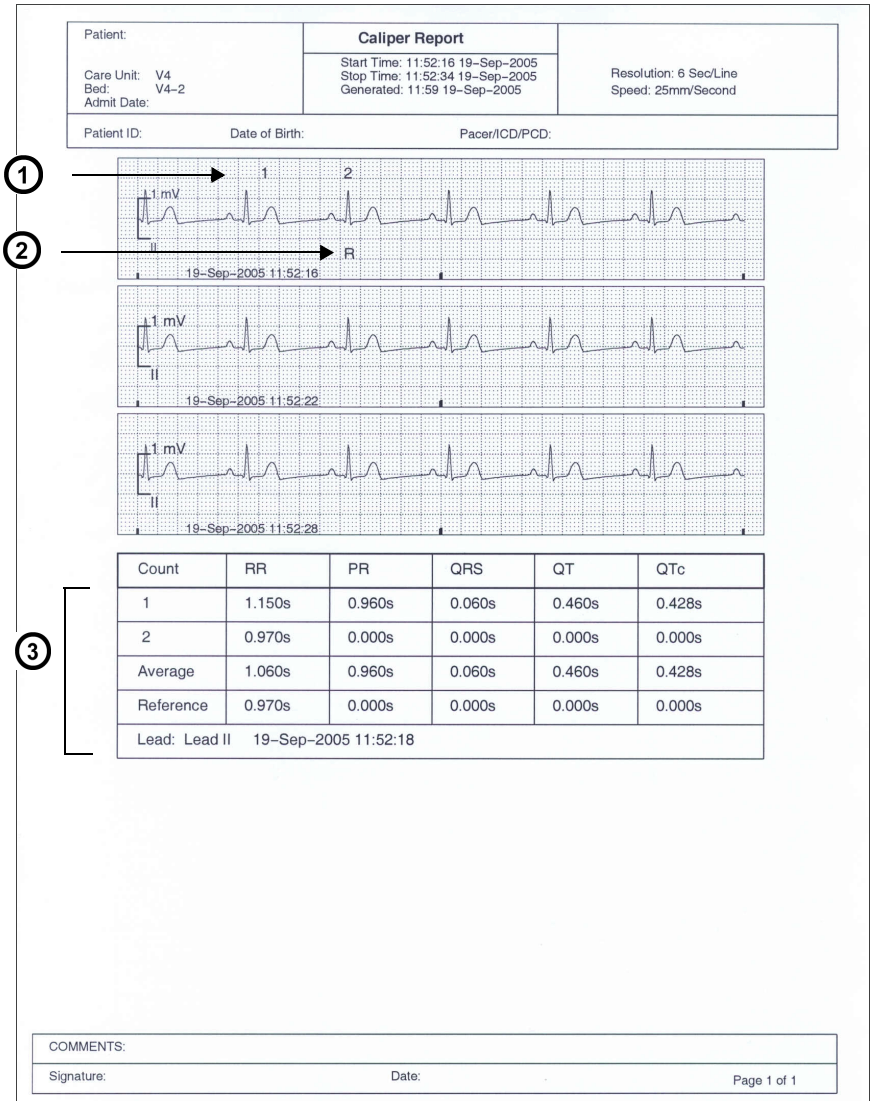
ECG Caliper Report

The ECG **Caliper Report** includes an 18-second ECG waveform strip and up to ten rows of interval measurements. To request this report, see page 12-25.



1	Count row number displays above measured complex.
2	"R" displays under complex from which reference measurements were taken when it is in the 18-second ECG strip.
3	Summary table from Caliper Review screen can include up to 10 rows of interval measurements.

Ventilator Report

With the VentCentral option you can request a ventilator report for a bedside patient who is connected to a ventilator.

A ventilator report is divided into two sections:

- Parameters And Settings
- Waveforms and Loops

To request a ventilator report, see page 12-23.

Parameters and settings

This portion contains the parameter values, units of measure, the settings, and the time the settings were last changed. The order of the parameters is fixed. Depending on the number of available parameters originating from the bedside monitor, this portion of the report may consist of several pages.

NOTE: Certain parameters, identified as measured values, are derived from other values provided by the ventilator and may not reflect the true measured values. See the operating instructions for your specific monitor for detailed information on derived measurements.

Waveforms and loops

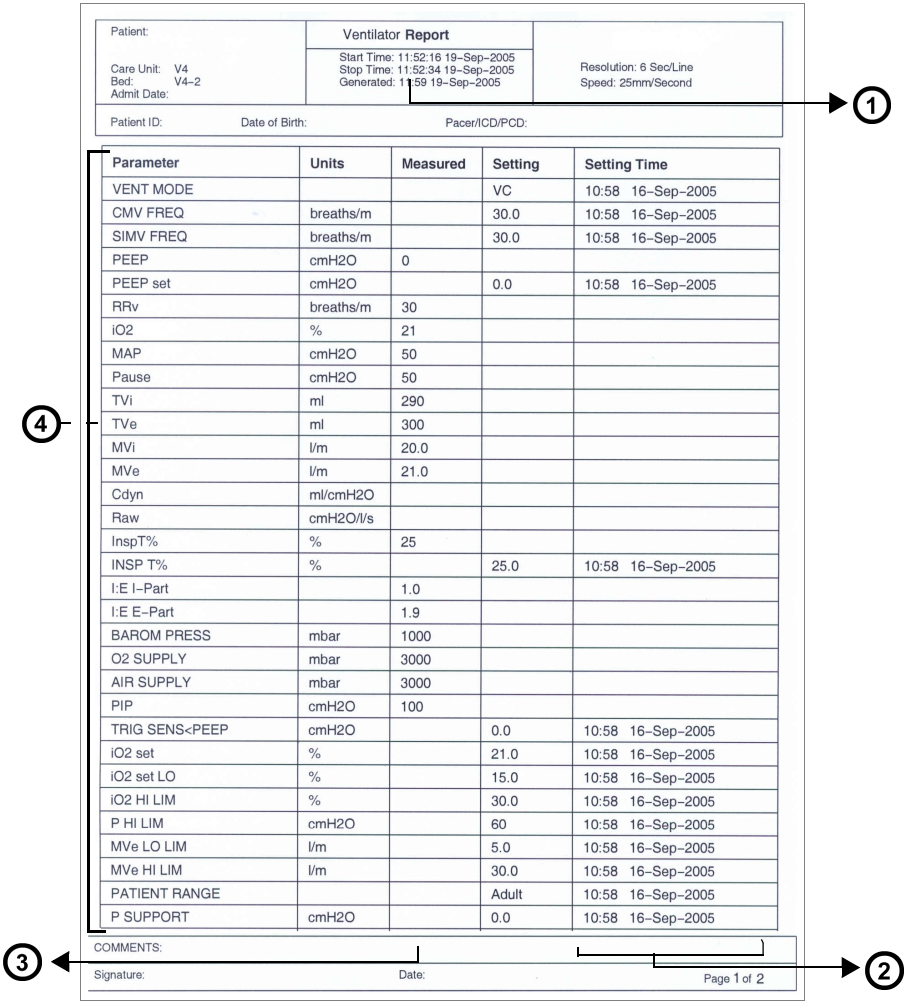
The waveforms and loops page contains the ventilator waveforms and loops displayed in the VentCentral Review screen and may contain up to three waveforms and up to two loops.

Each waveform consists of 7 seconds of data and begins at the time the report is generated. Each loop represents the first detected breath within the 7 seconds of data.

All waveforms are printed at 25mm/sec.

The labels and the scale of the printed waveforms and loops are identical to the displayed waveforms and loops in the VentCentral Review screen.

Parameters and Settings



Patient:

Care Unit: V4
Bed: V4-2
Admit Date:

Ventilator **Report**

Start Time: 11:52:16 19-Sep-2005
Stop Time: 11:52:34 19-Sep-2005
Generated: 11:59 19-Sep-2005

Resolution: 6 Sec/Line
Speed: 25mm/Second

Patient ID: Date of Birth: Pacer/ICD/PCD:

Parameter	Units	Measured	Setting	Setting Time
VENT MODE			VC	10:58 16-Sep-2005
CMV FREQ	breaths/m		30.0	10:58 16-Sep-2005
SIMV FREQ	breaths/m		30.0	10:58 16-Sep-2005
PEEP	cmH2O	0		
PEEP set	cmH2O		0.0	10:58 16-Sep-2005
RRv	breaths/m	30		
iO2	%	21		
MAP	cmH2O	50		
Pause	cmH2O	50		
TVi	ml	290		
TVe	ml	300		
MVi	l/m	20.0		
MVe	l/m	21.0		
Cdyn	ml/cmH2O			
Raw	cmH2O/l/s			
InspT%	%	25		
INSP T%	%		25.0	10:58 16-Sep-2005
I:E I-Part		1.0		
I:E E-Part		1.9		
BAROM PRESS	mbar	1000		
O2 SUPPLY	mbar	3000		
AIR SUPPLY	mbar	3000		
PIP	cmH2O	100		
TRIG SENS<PEEP	cmH2O		0.0	10:58 16-Sep-2005
iO2 set	%		21.0	10:58 16-Sep-2005
iO2 set LO	%		15.0	10:58 16-Sep-2005
iO2 HI LIM	%		30.0	10:58 16-Sep-2005
P HI LIM	cmH2O		60	10:58 16-Sep-2005
MVe LO LIM	l/m		5.0	10:58 16-Sep-2005
MVe HI LIM	l/m		30.0	10:58 16-Sep-2005
PATIENT RANGE			Adult	10:58 16-Sep-2005
P SUPPORT	cmH2O		0.0	10:58 16-Sep-2005

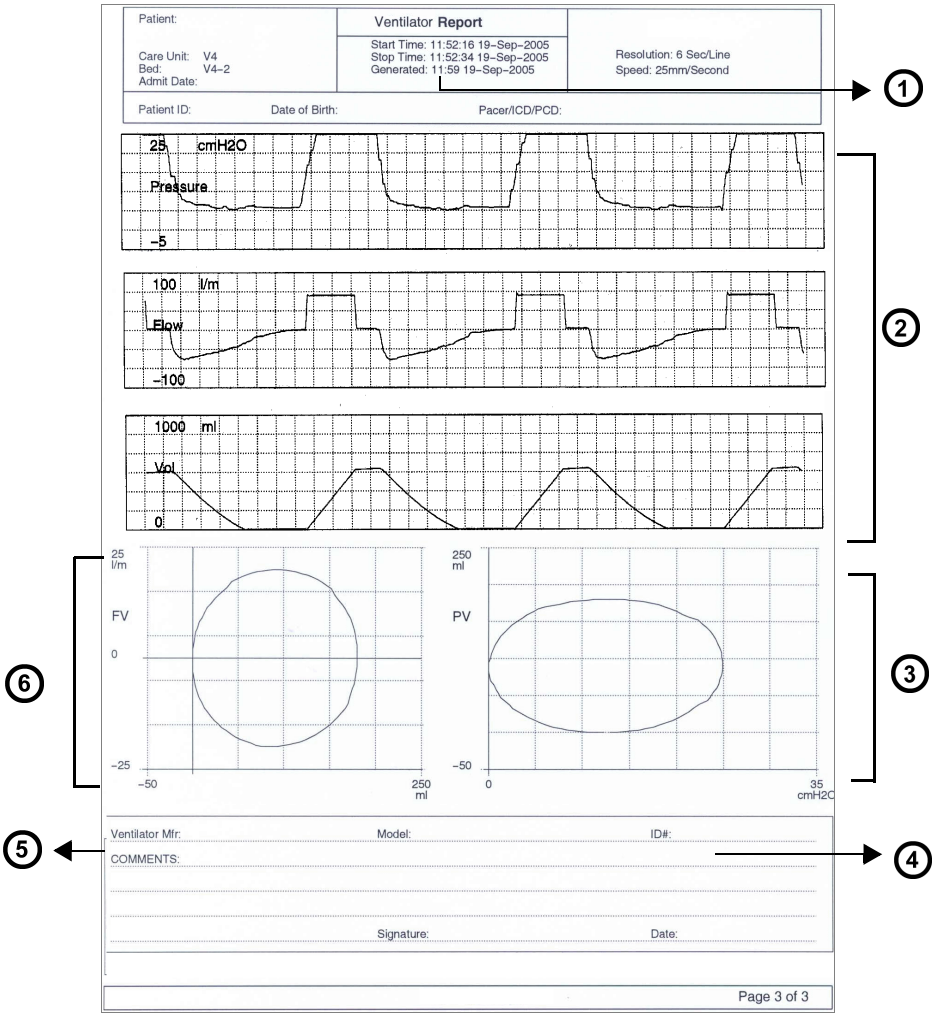
COMMENTS:

Signature: Date:

Page 1 of 2

1	Time that the report request was processed
2	Time the setting was updated or data collection resumed after the monitor was disconnected from the patient
3	Measured parameter values Certain parameters, identified as measured values, are derived from other values or settings provided by the ventilator and may not reflect actual values. See the operating instructions for your specific monitor for detailed information on derived measurements.
4	Parameters measured at the time the report request was processed

Waveforms and loops

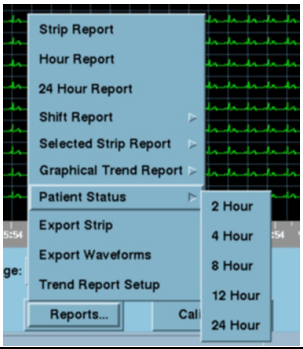


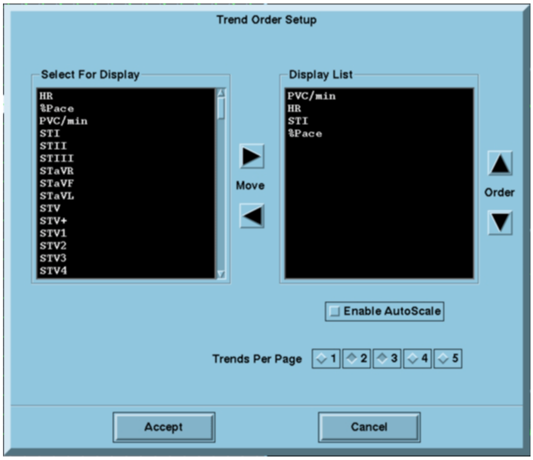
1	Time that the report request was processed
2	Top 3 waveforms selected in VentCentral screen
3	Pressure Loop (represents the first breath)
4	Area to record Ventilator Identification Number
5	Area to record Ventilator manufacturer
6	Flow Loop (represents the first breath)

Requesting Recordings and Reports

NOTE: The print queue can handle 10 report requests. You are notified when the print queue is full, and must wait until some reports print before requesting more

Recording/Report	Required Steps
Timed recording (from Main Screen)	For an individual patient: • Click on the **REC** button in the patient's parameter. If the patient is discharged, in *Standby*, or waveforms are stopped, the **REC** button is ghosted and you cannot request a timed recording.
	For all patients admitted to Main Screen: • Press the keyboard F11 key.
NOTE: ● If a recording was previously requested for a patient from Main Screen or the patient's waveforms are stopped, no recording is printed for that patient. ● If the Infinity CentralStation is operating in Dual Display mode, recordings are only printed for patients of the screen in which the mouse pointer is located at the time of the request.	
Timed recording (from Bed View)	• Click on **Record** on the menu bar.
Timed manual recording (from transmitter)	• Press transmitter recording button for less than 3 seconds.
Automatic alarm recording	Automatically generated timed recordings are described in Chapter 11 and Chapter 8.
Continuous recording	• Click on the **CONT** button. If the patient is discharged, in *Standby*, or waveforms are stopped, the **CONT** button is ghosted and you cannot request a timed recording.
Continuous recording (from transmitter)	• Press transmitter recording button for more than 3 seconds.
Print Screen	Main Screen • Press the keyboard **Print Screen** key. Bed View 1.Click on **View** in the menu bar. 2.Click on the desired menu selection. 3.Click on **Print in the Bed View menu bar**. 4.Click on **Bed**.
NOTE: If the **Print** button is ghosted, the **Printer Connected** setting is **Off** in the Configure Central menu (page 16-4).	
Simultaneous ECG Report	1.Open patient's Bed View Screen. 2.Click on **Print in the Bed View menu bar**. 3.Click on **ECG Report**.
Ventilator report	1.Open the **Ventilator Settings Review** Screen (page 15-8). 2.Click on **Report**.

Recording/Report	Required Steps
	Full Disclosure Reports
• Strip Report • Hour Report • 24 Hour Report	1.From the **Full Disclosure** screen (page 14-9) click on **Reports...** 2.Click on and select desired report. If you request a **24 Hour Report** a popup displays to alert you that this report will keep the printer busy. You must confirm your request by clicking on **OK** in the popup.
NOTE: You can change the cursor time by clicking on it.	
• Batch Shift Reports	1.Open the **Setup Central** screen (page 3-2). 2.Click on **Batch Shift Reports**. The report length selections display. 3.Select a report length (2, 4, 8, 12, or 24 Hour). 4.Click on **Accept** to save the setting. 5.Press **F9** on your keyboard.
• Shift Report • Patient Status Report	1.From the **Full Disclosure** screen (page 14-9) click on **Reports...**. The **Reports** menu displays. 2.Click on and select the desired report. 3.Select a report length from the menu (2, 4, 8, 12, or 24 Hour). 
• Selected Strip Report	1.From the **Full Disclosure** screen (page 14-9) click on **Reports...**. 2.Select a report length from an entry on the menu (1, 5 10, or 60 minutes, and Selected). The menu item 'Selected" is ghosted until a second cursor is defined. **For a *Selected* report length** 3.Right-click on the waveform to set a second cursor. The second cursor displays with dotted lines and can represent either the *Stop* or *Start Time* depending on its location relative to the first cursor. A confirmation popup appears that shows ***Start Time***, ***Stop Time***, and ***Total Pages***. 4.Click on **Continue** or **Cancel** in the popup.
NOTE: ● You cannot set the cursors so that the report is longer than 60 minutes or less than 2 seconds. A popup will display that cancels the selected period. ● The minimum report length is 8 seconds. Also, the report length will automatically adjust so that each row will contain a full 8 seconds of ECG data.	

Recording/Report	Required Steps
• Graphical Trend Report	On a **Graphical Trend Report**, which is also included in a **Shift Report,** you can print a report with the system-assigned trend settings (page 3-4) or you can configure the report to display particular trends for the individual patient as follows: 1.From the **Full Disclosure** screen (page 14-9) click on **Reports...**. From the **Reports** menu click on **Trend Report Setup.** The **Trend Order Setup** screen displays.  2.Select the trends you want to display and move them to the **Display List** window. The trends typically display on a fixed scale, but you can change the display by enabling autoscale. 3.If you want to change the display scale to autoscale, click on the selection box next to **Enable AutoScale**. 4.Select a number of **Trends Per Page** for the report. 5.Click on **Accept** to keep the trend order setup or on **Cancel**.
• Caliper Report	1.Open the **Caliper Review** screen (page 14-26). 2.Click on **Print Report.**
Event Disclosure Reports	
• Event Disclosure Strip Report	1.From the **Event Disclosure** screen (page 14-9) click on the button, **Reports...** 2.Click on **Strip Report**.
• Event Disclosure Shift Report • Event Disclosure Graphical Trend Report	1.From the **Event Disclosure** screen (page 14-9) click on the button, **Reports...**. 2.Click on and select desired report. 3.Select a report length from the menu (2, 4, 8, 12, or 24 hr).
• Selected Events Report	1.From the **Event Disclosure** screen (page 14-9) click on the button, **Reports...**. 2.Click on **Selected Events Report**. 3.Select the events for the report. A popup displays the number of events selected. 4.Click on **Accept** to continue or on **Cancel**.

Canceling a Recording

Recording Type	Cancel in Main Screen	Cancel in Bed View	Cancel at the Recorder
Manual timed recording	Click on patient(s) **REC** key to 'deselect'.	Click on the **RECORD** key to 'deselect'.	Press **STOP** key.
Alarm recording	Not possible	Not possible	Press **STOP** key.
ARR event recording	Not possible	Not possible	Press **STOP** key.
Continuous recording	Click on patient's **CONT REC** key to 'deselect' it.	Not possible	Press **STOP** key.

Actions that Affect Recordings

Action	Effect on Pending Recordings	Effect on Recordings in Progress
Patient Discharge	Pending recordings discarded	Recording is canceled.
Edit patient's demographic data	No effect	No effect
Patient monitoring put in standby mode	No effect	Recording is canceled.
Restore factory defaults	Pending recordings discarded	Recording is canceled.
Configuration change of Main Screen resulting in removal of a patient	Patient's pending recordings canceled	Recording is canceled.
Change in scale settings or parameter order (parameters might become available/ unavailable due to restored/ missing signals)	No effect	Recordings will continue but waveform and parameter data for any removed parameter appear as blanks. Added parameters are *not* included on an in-progress recording.
Recorder assignment change	No effect. Additional recordings are printed on the new recorder.	No effect on recordings
Network time/date change	No effect on active or pending recordings. All new and continuous recordings in progress reflect the new date/time.	Continuous recordings reflect the change immediately (as will all future timed recordings).
R 50 recorder becomes unavailable, runs out of paper, or jams	No effect	Recording is not lost, but routed to another assigned recorder, or stored for later printing when the recorder becomes available.
Remote device requesting a recording of a local patient goes offline	Deletes all recordings associated with this device	Recording is canceled.
Patient disconnect for transport	Cancels all pending recordings for that bed	Recording is canceled.

Recording Status Messages

Recorder Status Messages			
Status Message	**Tone**	**Description**	**Action**
• *<xxxx> Recording Request Accepted*[1] • *Cont. Recording Now Timed (for Gamma/Gamma XL/Vista monitors only)* • *<xxxx> Report Request Accepted*[2]		Request is accepted, but stored until a printing device is available.	None
• *<xxxx> Recording Started*[1] • *<xxxx> Report Request Started*[2]		Request is being printed.	None
• *<xxxx> Recording Finished*[1] • *<xxxx> Report Request Finished*[2]		Printout is finished or is stored.	None
• <xxxx> Report Request Canceled - Queue full[2]		Report is canceled due to a full print queue.	None
<xxx> Disconnected[3]	Advisory	Recorder(s) not connected to the network.	Connect the recorder.
• *<xxxx> Recording Interrupted*[1]		Recording stalled because recorder is disconnected from CPS, out of paper, its door is open, or an error occurred during data transmission.	Contact Biomed.
<xxx> Door Open[3]	Advisory	Recorder door open	Close door.
<xxx> Out Of Paper[3]	Advisory	Recorder needs paper.	Replace paper.
<xxx> Failure[3]	Serious	Recorder failed.	Take recorder out of service and contact service personnel.
<xxx> Offline[3]	Serious	Recorder CPS is offline. Recorder communication with the network failed.	Contact Biomed to check network connection.
<xxx> Duplicate Address[3]	Serious	Recorder CPS detected duplicate address.	Contact Biomed.
Recorder Not Assigned	Attention	No recorder assigned.	Assign a recorder (page 3-5)
Recording Request Not Accepted	Attention	**Bedside** monitor's print queue is full, or **telemetry** patient's recording is requested within 5 seconds of request for a higher-priority recording.	Wait until some of the pending recordings are printed before requesting another recording.

Recorder Status Messages			
Status Message	**Tone**	**Description**	**Action**
Recording Status Unknown - Connection Failed	Attention	Recording status unknown due to failed bed connection (telemetry or bedside).	Contact Biomed.
Cursor out of Range	Attention	More than 60 minutes of data is defined by Selected Strip Report cursors.	Set cursors for 8 seconds to 60 minutes of FD data.

[1] <xxxx> represents recording title.
[2] <xxxx> represents report title.
[3] <xxx> represents device/host label.

Printer Status Messages			
Status Message	**Tone**	**Description**	**Action**
Print Request Finished		Request is complete.	None
Printer Not Configured	Attention	No printer is configured at the Infinity CentralStation.	Configure the printer (page 16-4).
Print Request Not Accepted - Queue Full	Attention	Print screen request was rejected because the print queue handles one request at a time.	Wait until previous screens complete printing before requesting another.
Printer/Communication Error	Attention	Communication to network is faulty.	Consult Biomed.
Printer Selection Failed	Attention	Selected printer is not set up properly.	Consult Biomed.

13 Trends

This chapter describes the Infinity CentralStation Trend function and available display features of trend graphs and tables.

Overview

All trend information is available for remote viewing by network client devices. To request a ***Graphical Trend Report***, refer to page 12-18.

Accessing a Patient's Trends

1. Open the patient's Bed View screen.
2. Click on **Review**.
3. Click on **Trend Graphs...** or **Trend Table...**.

When you open the Trend Graphs screen, data is centered around the cursor time.

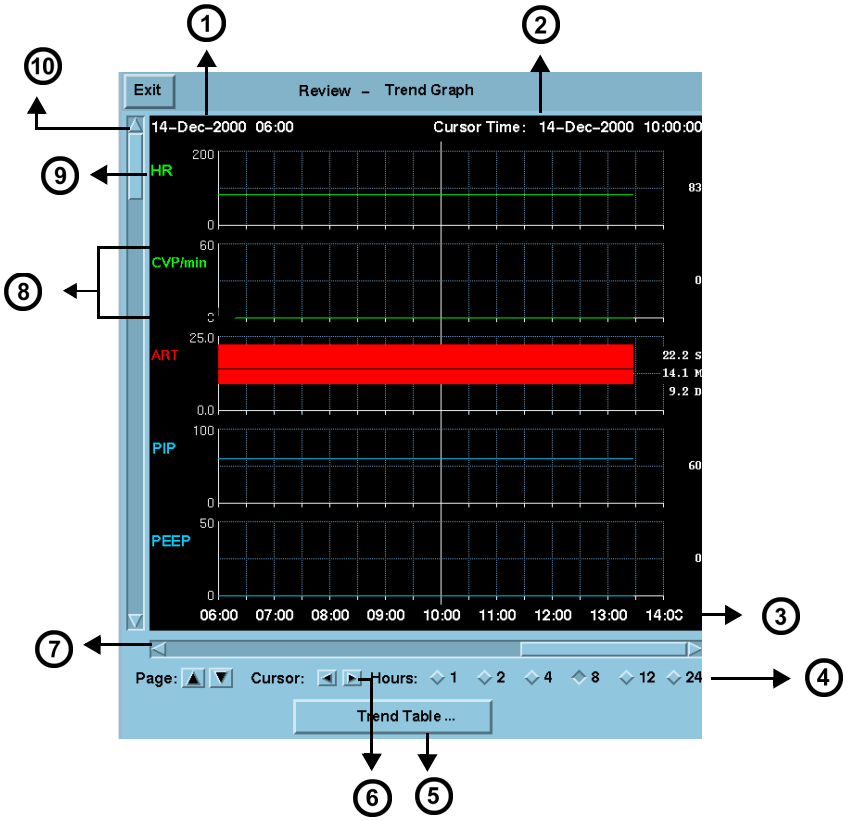
Availability of Trends

Bedside Patients - Bedside monitor sends parameter trend data, including all MIB parameters, to the Infinity CentralStation.

Telemetry Patients - Infinity TeleSmart trends and stores telemetry patients' trends and parameters. Supported trend parameters and scales for telemetry patients are listed on page 13-4.

Trend Graphs

Trend graphs show stored trend data for each parameter. Each trend page can accommodate up to five parameter graphs that may be blank if the parameter is not selected for trending. Trends are updated automatically, with the most recent data entering continuously on the right. When you click on the trended parameter label, the scale toggles between *fixed* and *autoscale* values (page 12-18).



1	Start date/time of Trend data	**6**	Cursor scrolling keys
2	Time and date corresponding to current cursor position	**7**	Horizontal arrows scroll time periods
3	Time labels	**8**	Interactive scale permits selection of: -autoscale or fixed scale (telemetry patients) -autoscale or bed scale (bedside patients)
4	Radio buttons to select graph time period	**9**	Parameter label
5	Opens Trend Table	**10**	Vertical arrows scroll one graph at a time

Parameter Display Order and Trend Scales for Telemetry Patients

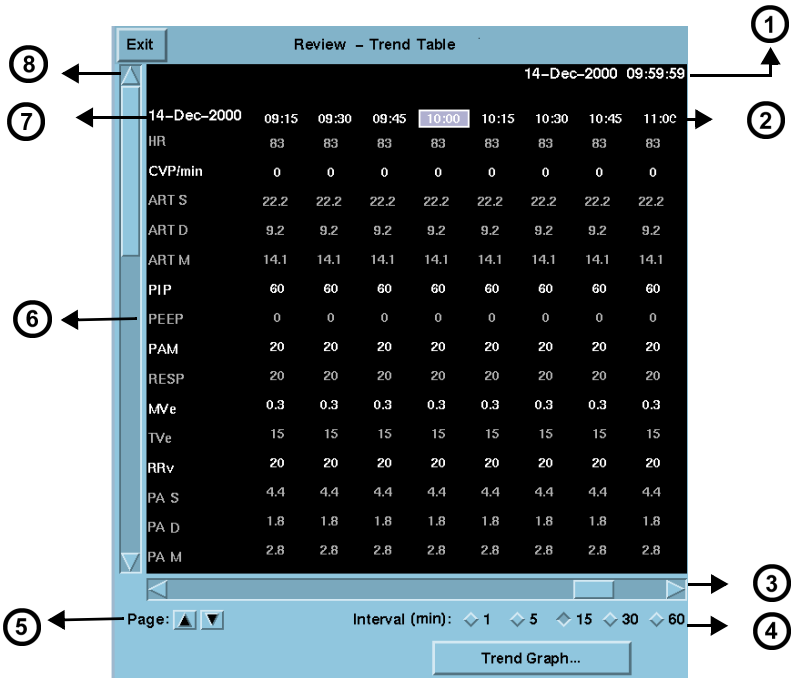
Parameter	Display Order	Upper/Lower Scale
HR	1	0 to 200 beats/min
PVC/min	2	0 to 60
% paced	3	0 to 100%
SPO_2 (SPO_2*)	4	50 to 100%
PLS (PLS*)	5	0 to 200 beats/min
NPB	6	0 to 250 mmHG
STI	7 - 26	-5 to 5mm or -0.5 to 0.5mV
STII		
STIII		
ST aVR		
ST aVL		
ST aVF		
ST V		
ST V+		
ST V1		
ST V2		
ST V3		
ST V4		
ST V5		
ST V6		
ST dV1		
ST dV2		
ST dV3		
ST dV4		
ST dV5,		
ST dV6		
ST VM	27	-10.0 to10.0 mm or -0.10 to 0.10mV
ST CVM	28	

Representation of Parameters in Trend Graphs

Parameter Type	Representation on Trend Graph
Single-value, continuous such as HR	Single, continuous line
Single-value, intermittent such as C.O.	Cross hairs representing each value
Multi-value, continuous such as ART	Colored band with black line indicating mean
Multi-value, intermittent such as NPB	Vertical colored line with black dot indicating mean

Trend Table

Each trend table row shows a parameters values; each column shows a trend data set for all parameters at that time. If a parameter is assigned to trending but cannot be trended, the row lists the parameter label but values are blank. Regardless of the selected interval, a trend table displays up to 8 data columns. A trend table may also represent special events (page 13-9).

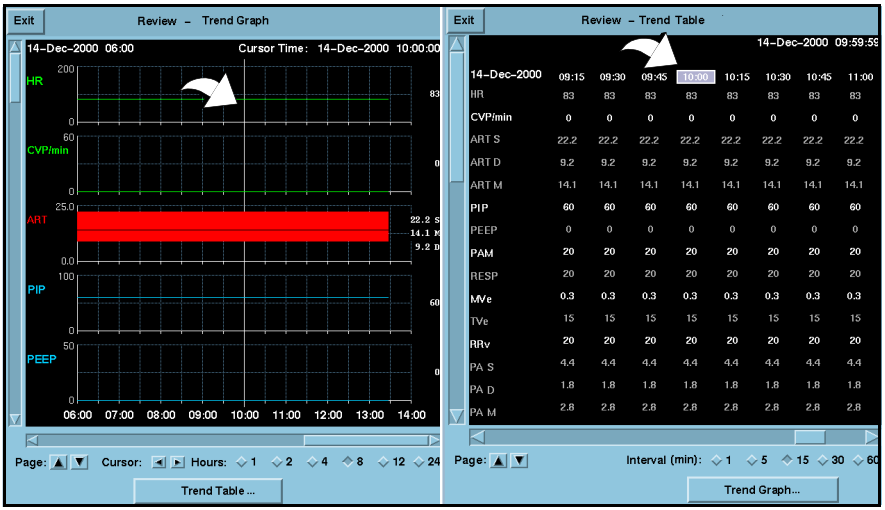


1	Date/time of cursor position	5	Permits page scrolling
2	Time stamps	6	Parameter labels
3	Horizontal arrows scroll time columns	7	Start date/time of trend data
4	Radio buttons for selecting time period	8	Vertical arrows scroll rows of data

- Trend values appear in groups of associated parameter rows.
- Discrete events such as NPB or CO measurements cause a set of trend data to be stored for all parameters. Such data appears as a separate trend column a with a green time stamp heading. This is also true when a mini-calc computation is initiated on an Delta/Delta XL/Kappa/GammaX XL monitor.
- The trend table updates automatically whenever an interval elapses. The most recent column is at the right of the screen.

Trend Cursor

On a trend graph The cursor appears as a full-screen white vertical line; on a trend table the cursor is the highlighted column time. Cursor time displays in the upper right part of the screen.



- If cursor time matches one of the *trend table* column time stamps, the column time is highlighted and appears in the center of the trend table screen. If the cursor time in *trend graphs* is within the time boundaries of the current trend screen, the cursor is displayed along with the trend values corresponding to the cursor's position.
- If the cursor time does not exactly match one of the columns in the trend table, cursor time is displayed but no column is highlighted. Click on any column time to highlight it.
- If the cursor time is not within the time span of the current trend page, the cursor time displays but the cursor does not. Scroll to the desired data to display the cursor on the current trend.
- If the cursor time is older than any of the available trend data, the oldest trend data is displayed without the cursor. The cursor time displays.

Trend Graph Time Intervals

Hours	Scrolling Interval (min.)	Time Interval (min.)
1	15	15
2	15	15
4	30	30
8	60	60
12	60	90
24	60	180
72	60	180

NOTE: Although the Infinity TeleSmart can store up to 72 hours of trend data for telemetry patients, you can only view 24 hours at a time at the Infinity CentralStation. The scroll bar advances the trend window in 24-hour segments.

1. Access a patient's trend graphs or trend table (page 13-2).
2. Select the trend data you want to display.

   Trend Graphs: Select one of the **Hours** radio buttons.

   Trend Table: Select one of the **Interval (min)** radio buttons.

Representation of Special Conditions

Condition	Representation in Trend Table		Representation in Trend Graphs	
	Telemetry Patients	**Bedside Patients**	**Telemetry Patients**	**Bedside Patients**
Discrete trend samples such as those associated with NPB and COs		Column designated with a green time stamp		Vertical line with a gap in the center indicating the mean value
A trend event stored at Delta/Delta XL/Kappa bedside monitor		Column designated with and a green time stamp		Not shown in graphs
Physiological conditions such as an asystole or an apnea	• ASY = Asystole • VF = ventricular Fibrillation	• ASY = Asystole • FIB = Ventricular Fibrillation • APN = Apnea	• Parameter value = 0	• Parameter value = 0 • Parameter value = 0 • Parameter value = 0
No parameter could be derived	* * *		Blanks in the graphs	
Lead-Off condition	*L*	***	*L*	***
Out-of-range values	**+ + +** (high) or **- - -** (low)		Blanks (Move the cursor over the blanks to display actual values.)	
Artifact	*A*	***	*A*	***
Lead wires, electrodes are unplugged	*U*		*U*	
Hardware failure	*F*		*F*	
Interference	*I*		Blanks in the graphs	*not applicable*
No signal	*N*	Blank spaces	Blanks in the graphs	
Time change at bedside monitor		Yellow line between trend columns		Blank spaces in the graph

Condition	Representation in Trend Table		Representation in Trend Graphs	
	Telemetry Patients	Bedside Patients	Telemetry Patients	Bedside Patients
A trend event has been stored by initiating a mini-calc computation at the bedside.		Column designated with this symbol ◀ and a green time stamp		not shown in graphs
Change in units of measure	New units take effect during the next patient admission.		New units take effect during the next patient admission.	
Power loss in server	Blank spaces are stored in place of trend values			
Telemetry receiver goes offline.	Blank spaces instead of trend values		Blank spaces instead of trend values	
Patient is put in standby	Blank spaces are stored in place of trend values			
Change of language	Text strings appear in current language			
Relearning of ST complexes	R		Vertical dotted line that extends through the entire graph	
Changing of ST measuring points	CHG		Vertical solid line that extends through the entire graph	

14 Full/Event Disclosure (Option)

A Full/Event Disclosure option of the Infinity CentralStation must be enabled in the Biomed menu (Chapter 16).

Overview

Depending on the Infinity CentralStation hardware configuration and the Full/Event Disclosure option, you can store up to 72 hours of full disclosure waveform data per patient. You can also track and analyze up to 1000 clinically significant events.

Available Full/Event Disclosure features follow.

Standard	Storage
2 hour Full/Event Disclosure (requires 72 GB Hard Drive and is only available with a new system)	4 waveforms over 2 hours 1000 events 24-hr trends (bedside) 72-hr trends (Telemetry)
Option	**Storage**
24 hour Full/Event Disclosure	4 waveforms over 28 hours 1000 events 24-hr trends (bedside) 72-hr trends (Telemetry)
48 hour Full/Event Disclosure	4 waveforms over 48 hours 1000 events 24-hr trends (bedside) 72-hr trends (Telemetry)
72 hour Full/Event Disclosure	4 waveforms over 72 hours 1000 events 24-hr trends (bedside) 72-hr trends (Telemetry)
12 Waveform Storage (72 hours disclosure requires 72 GB Hard Drive, 250 MHz CPU and 24, 48 or 72 hour full/event disclosure option)	12 waveforms over selected hours (With 12-lead ECG there are 16 waveforms available for display.) 1000 events 24-hr trends (bedside) 72-hr trends (Telemetry)

Disclosure data storage begins immediately when a patient is added to the Main Screen. Once storage capacity is reached, the most recent data replaces the oldest.

With the *Client* option you can view any other Infinity CentralStation Full and Event Disclosure on the Infinity network.

NOTE:

- If you remove a Full/Event Disclosure server from the network while a client device is viewing the server, the client will reset.
- With the VentCentral Option, ventilator waveforms from MIB devices can be stored in Full/Event Disclosure (Chapter 15).

Full/Event Disclosure Census Operations

Accessing the Census Screen

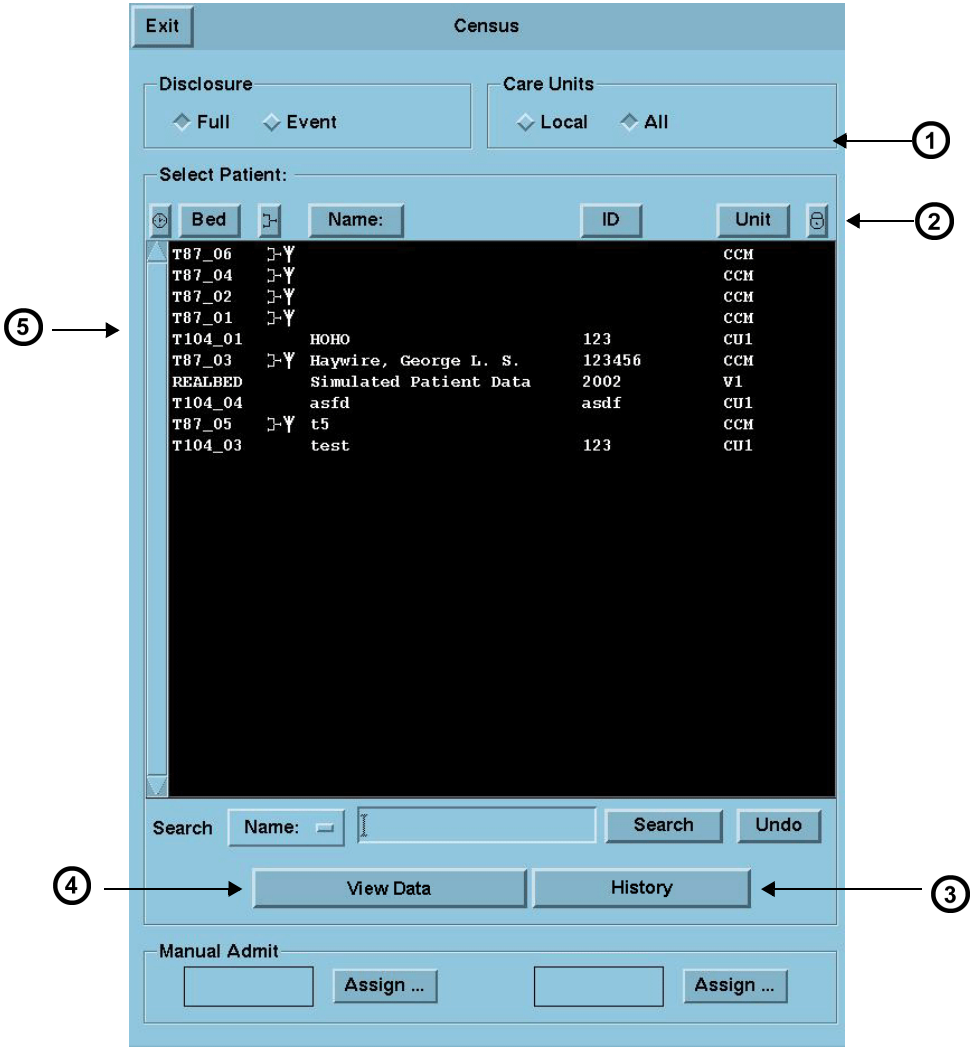
From Bed View:

1. Click on **Review**.
2. Click on **Full Disclosure...** or **Event Disclosure...**.
3. Click on **Census** in the menu bar.

From Main Screen:

1. Click on **View**.
2. Click on **Full Disclosure...** or **Event Disclosure...**.

Census Screen Illustration



1	Only displays when client option is enabled Permits selection of disclosure data from Local Infinity CentralStation or from entire Infinity network
2	Headings that permit sorting of patient data
3	Opens selected patient's **History** popup
4	Opens Disclosure Review Screen
5	Census Screen patient list

Census Screen Selection Description

	Selection	Description
Disclosure	**Full**	Full Disclosure data
	Event	Event Disclosure data
Care Units	**Local**	Patients with disclosure records being stored in the database of the Infinity CentralStation currently being used
	All	Patients with disclosure records accessible on the Infinity Network
Select Patient: Available patient records are listed and can be sorted by clicking on one of the headings.	**Record Lock** 	Denotes a “locked” record Disclosure data for a patient removed from the main screen is stored for up to 72 hours. When the padlock symbol displays the record is locked.
		Time Disclosure record was acquired Sort order places most recent record first.
	Bed	Infinity Network bed label
		Denotes *Active/Inactive* status When the symbol displays, disclosure data collection is active.
	Name	Patient Name
	ID	Patient ID Number
	Care Unit	Care Unit Label
Search	• **Name** • **ID** • **Bed**	Selects field that will be searched for keyword entered in the text entry box
	text box	Text entry box for keyword search criteria (20-character maximum)
	Search	Activates search function for information entered in to text box
	Undo	Returns Census Screen
View Data	Opens selected patient’s disclosure review screen (Full or Event)	
History	Opens selected patient’s disclosure history screen	
Manual Admit	**Assign...**	Manually admit up to 2 additional patients to Disclosure data collection

Admitting a Patient to Full/Event Disclosure

Once a patient is added to the Infinity CentralStation Main Screen, Full/Event disclosure data collection begins. A patient is identified in the database by name and identification number.

Data Collection Rules

A patient remains admitted to the server and Disclosure data storage continues for as long as the patient remains on the same monitor on the network and within the monitoring unit. This is also true for telemetry patients; as long as they remain admitted to the same Infinity CentralStation, data storage continues.

If the patient leaves the monitoring unit and returns with the same bedside monitor or to the same Infinity CentralStation, Disclosure data storage resumes automatically when the patient is reconnected to the Infinity Network even if the patient name and the ID have changed. If the patient's monitor/Infinity CentralStation is different, the new care unit data is linked to the previous data set and is available on the patient's Full or Event Disclosure Review screen.

NOTE:

- If the bedside monitor is disconnected for a PICK AND GO purpose and is reconnected to the network, Disclosure storage resumes automatically.
- Whenever you remove a bedside monitor from the network, small gaps will appear in the Full Disclosure waveforms.

Once the Full/Event Disclosure capacity is reached (4, 8, 12, 16, or 32 patients, depending on server option) new patients can be admitted as patients are discharged and slots become available.

The Infinity CentralStation database permits storage of "*active*" and "*inactive*" patient records. The total number of "*inactive*" records available is calculated using the formula:

64 – (n +2), with "n" equal to the number of patient licences you have.

"*Inactive*" records are included in the Census Screen patient list and have no "active data collection" symbol (page 14-5). Stored waveforms for patients who are removed from Main Screen are saved and sorted according to time spent, and have an inactive status. As soon as the storage capacity is reached, the oldest data is replaced by the most recent. Each inactive record deletes automatically after 72 hours, except when the record is locked (page 14-5).

To Manually Admit a Patient:

You can admit two additional patients to Full/Event Disclosure as follows.

1. Open the Census screen (page 14-3).
2. Click on the button labeled **Assign...** in the **Manual Admit** section of the **Census** screen.

   The *Manual Assign Bed* popup displays.
3. Double-click on the patient you wish to admit, or

   Highlight the patient you wish to admit and click on **Accept**.

Accessing Disclosure History

1. Open the Census screen (page 14-3).
2. Highlight the desired record in the Census screen patient list (page 14-4).
3. Click on History.

   The *Patient Care History* popup displays.
4. Select the record you wish to view.
5. Click on **View Data**.

Locking a Full/Event Disclosure Record

You can lock up to 10 disclosure records in each Infinity CentralStation database. When you **lock** the record, data will not be automatically deleted. When all 10 locks are used, the button is ghosted.

To Lock/Unlock a Record:

1. Access the *Patient Care History* popup.
2. Select the record you wish to lock or unlock.
3. Click on the **Lock/Unlock** toggle button.

NOTE: If **Clinical Password** is enabled on the **Biomed - Configure Central** screen (page 16-4), you will need that password to unlock a record.

Accessing the Full/Event Disclosure Review Screen

From Main Screen:

1. Open the Census Screen (page 14-3)
2. Highlight a record in the Census screen patient list (page 14-4) to activate the **View Data** button.
3. Click on **View Data** to display the Full/Event Disclosure Review screen.

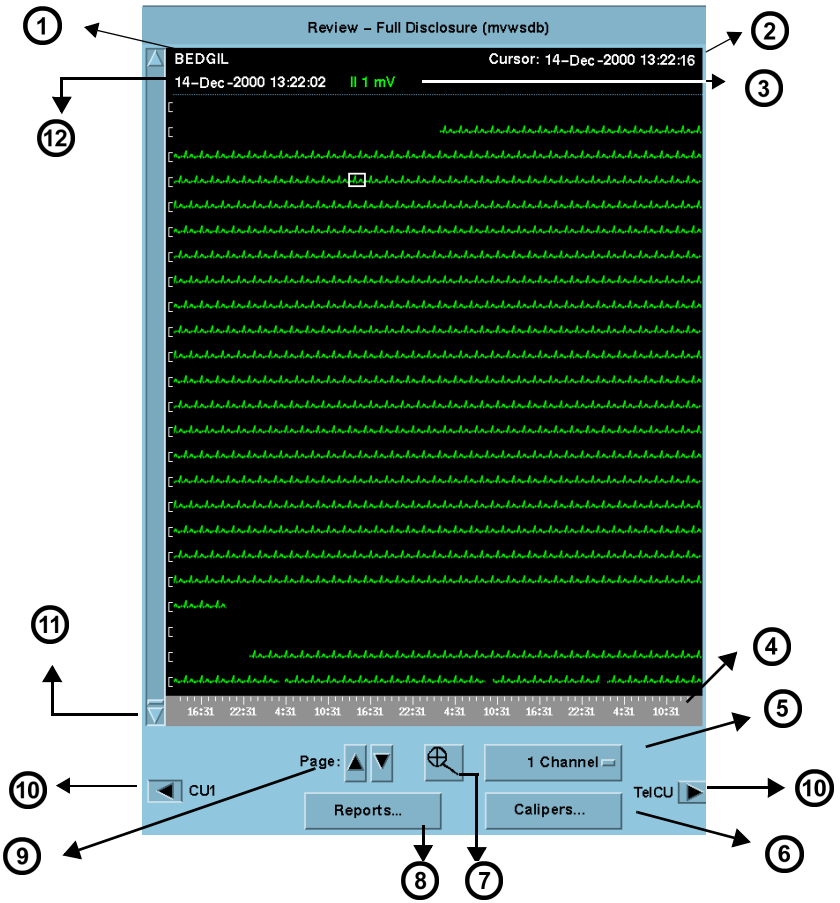
From Bed View:

1. Click on **Review**.
2. Click on **Full Disclosure...** or **Event Disclosure...**

The patient's Disclosure data initially displays in compressed screen (zoom out) format.

NOTE: When moving between Disclosure screens and other screens (such as Trends) near a time change, time stamps may be slightly different on the two screens. This occurs because the Infinity CentralStation and the bedside monitors have different methods of annotating time. These time differences do not affect the displayed data which *correlates exactly in both applications* to an internal time stamp.

Full Disclosure Review Screen

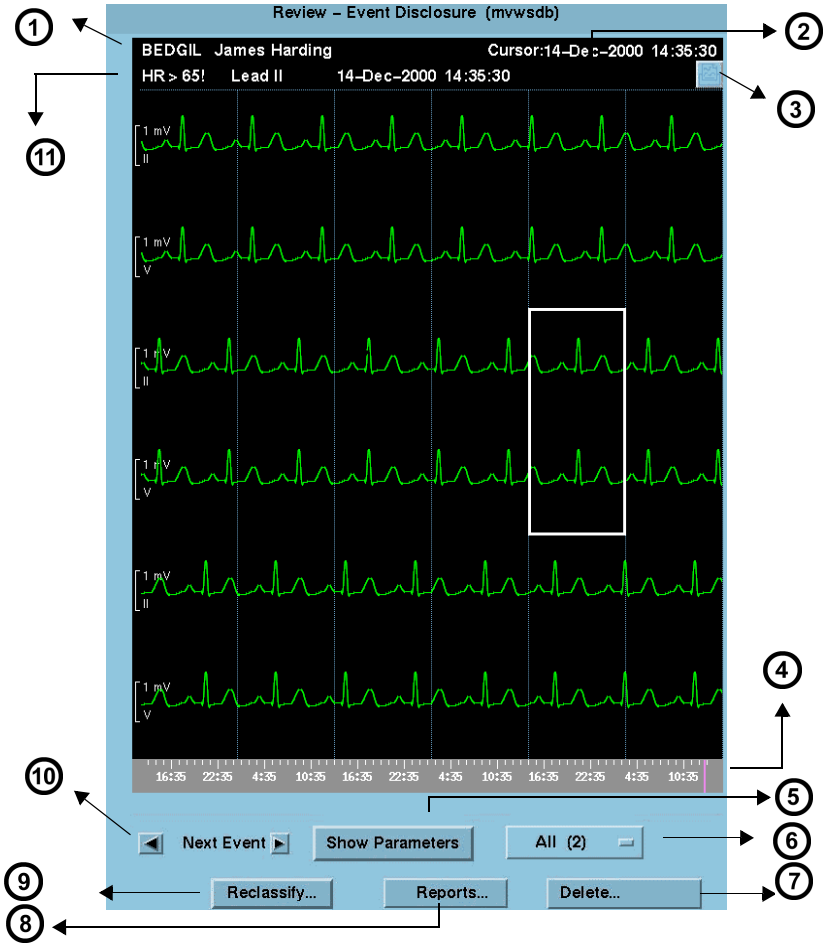


1	Patient Identification	**7**	Selects viewing mode (Zoom In or Zoom Out)
2	Time/date corresponding to cursor position	**8**	Generates Full Disclosure reports
3	Gain setting/lead label	**9**	Navigates by page
4	Time Line reflects Full/Event Disclosure Storage Option (page 14-2) When navigating through care units the time line changes to reflect the storage time of the selected care unit	**10**	Permits scrolling through care unit data When there is no *previous* or *next* care unit data, the arrow is ghosted and no care unit label displays.
5	Selects number of waveforms to display	**11**	Vertical scroll bar
6	Opens ECG Caliper Tool Screen	**12**	Time/date of oldest displayed data

All time changes that occur at the Infinity CentralStation are identified on the waveform by a yellow tick mark. Appended data is marked with a flashing white tick mark, which represents the time the data was appended.

Event Disclosure Review Screen

When you open the **Review-Event Disclosure** screen, the most recent event information displays along with its associated waveform (if the waveform is being stored).



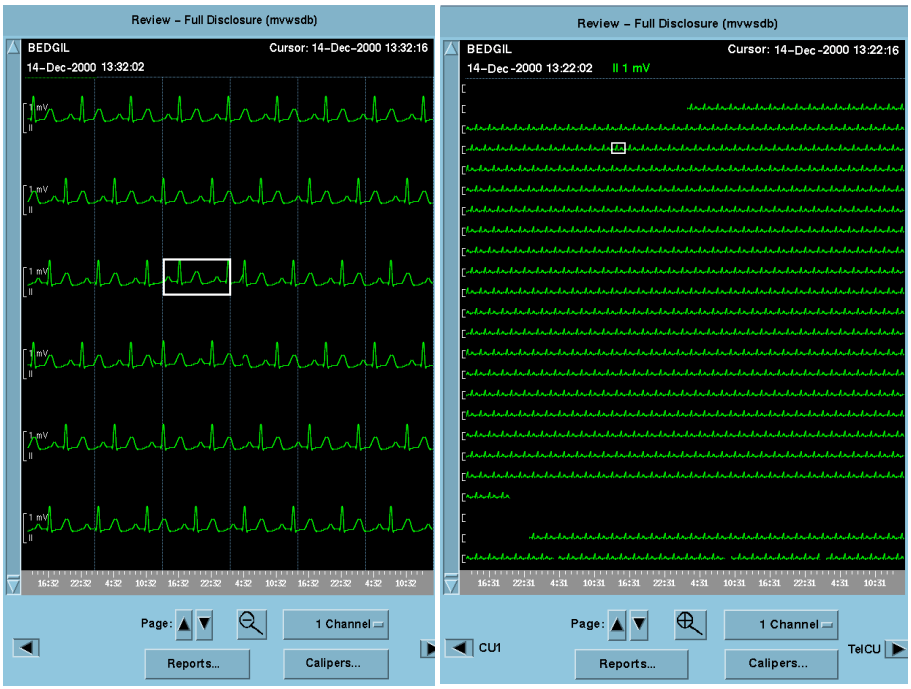
1	Patient Identification	**6**	Event class
2	Time/date corresponding to cursor position	**7**	Deletes event classes
3	Click symbol so a check mark displays to select an event for the shift report. When an event is annotated, the comment displays.	**8**	Opens Reports submenu
4	*Time line* with tick marks for all stored events Prominent tick mark identifies displayed event	**9**	Permits reclassification of event
5	Displays parameter values at time of the event (page 14-18)	**10**	To set up event classes see (page 14-19). Scrolls to next/previous event on *time line*
		11	Cause, lead, time, and date of stored event

Full/Event Disclosure Review Screen Functions

You can view a patient's Disclosure data (Full or Event) in **Zoom Out** (compressed) or **Zoom In** (expanded) format.

Zoom In
For 1 channel approximately 36 seconds of data displays on a page.

Zoom Out
For 1 channel approximately 9.5 minutes of data displays on a page.

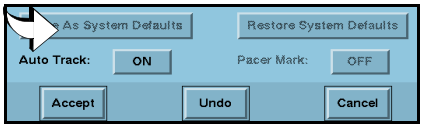


NOTE: Displayed data is centered around the cursor time.

Available functions on disclosure review screens are:

Full Disclosure	Event Disclosure
• navigate through and view stored Full/Event Disclosure data for multiple care units (page 14-10)	
• generate reports (page 12-23)	
• select how many channels of data you wish to view (page 14-10)	• view parameter values
• select gain settings (page 14-14)	• delete events (individual event or entire event class)
• choose the order of the displayed waveforms	• customize event storage
• select waveforms for storage (page 14-14)	• annotate events (page 14-16)
• access ECG caliper tool (page 14-21)	• reclassify events (page 14-19)
• configure trend order setup for Graphical Trend Report (page 12-25)	

Full/Event Disclosure Storage/Display Options

Function	Steps	Notes
Select waveforms for display	1.Click on **Options** on the **Disclosure Review screen** menu bar. 2.Click on **Display Options...** 3.Click on the channel's *Parameter* button. A list of available settings appears. Parameter labels stored at the selected cursor time are displayed in white text. 4.Click on the desired setting. 5.Repeat steps 3 and 4 for each channel.	Cursor time appears in white text on the **Patient Setup** screen.
Set display gain	1.Click on **Options** on the **Disclosure Review screen** menu bar. 2.Click on **Display Options...** 3.Click on the channel's *Gain/Scale* button. A popup of available settings appears (page 14-15). 4.Click on the desired setting. 5.Repeat steps 3 and 4 for each channel.	
Turn pacer mark ON/OFF	• Click on **Pacer Mark** toggle button on the bottom of the waveform selection screen. 	Pacer marks for bedside patients only display at the Infinity CentralStation if they are available at the bedside monitor.
Select waveforms for storage	1.Click on **Options** on the **Disclosure Review screen** menu bar. 2.Click on **Storage Options...** 3.Click on each channel's 'Parameter' button. 4.Click on the desired setting in the popup.	Channel defaults: 1 - Lead II 2 - Lead V 3 - ART 4 - SpO_2
Enable/Disable Automatic waveform tracking	• Click on **Auto Track** toggle button near the bottom of the Waveform Storage screen**.** 	When **Auto Track:** is **ON**, the first three waveforms displayed at the bedside are stored automatically. When **Auto Track:** is **OFF**, you must manually select waveforms for storage.
NOTE: If you change leads at the bedside monitor and the Infinity CentralStation is storing waveforms manually, you must also change the lead selection at the Infinity CentralStation. The bedside waveforms may no longer correspond to the Infinity CentralStation waveform storage settings and data may be missing.		
• Click on **Accept**, **Undo**, or **Cancel**.		

Available Gain Settings

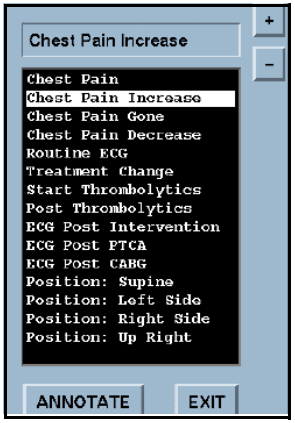
Parameter	Available settings	Default size
ECG	0.25, 0.5, 1, 2, 4, and 8 mV	1 mV
ART/IBP, LV, GP1, GP2, P1a-P3d	0 to: 20, 40, 50, 100, 125, 150, 175, 200, 225, 250, 300 mm Hg 0 to: 8, 12, 16, 20, 24, 32, 40 kPa	Adult 0 to 200 mm Hg/0 to 24 kPa Neonatal 0 to 100 mm Hg/0 - 16 kPa Pediatric 0 to 150 mm Hg/0 to 20 kPa)
PA, RV	0 to: 20, 40, 50 100, 125, 150 mm Hg 0 to: 4, 6, 8, 12, 16, 20 kPa	0 to 50 mm Hg/0 to 8 kPa
LA, RA, CVP	-5 to: 5, 15, 20, 25, 40, 50, 100, 150, 200, 250, 300 mm Hg -1 to: 2, 4, 5, 6, 8 kPa	-5 to 20 mm Hg/ -1 to 5 kPa
ICP	-30 to 30, 0 to: 20, 40, 50, 100, 150, 200, 250, 300 mm Hg -4 to 4, 0 to: 1, 2, 3, 4, 8, 16 kPa	0 to 20 mm Hg/0 - 4 kPa
SpO_2	10, 20, 30, 40, 50, 60, 70, 80, 90, 100%	40%
etCO2	0 to: 40, 60, 80 mm Hg 0 to: 5, 8, 12 kPa 0 to: 5, 8, 12%	0 to 40 mm Hg/0 to 5 kPa 0 to 5% 0 to 12%/0 to 12 kPa (MIB acquired)
Ventilator flow (MIB)	-5 to 5 L/min -10 to 10 L/min -20 to 20 L/min -50 to 50 L/min -100 to 100 L/min -200 to 200 L/min	Adult -100 to 100 L/min Neonatal -20 to 20 L/min Pediatric -50 to 50 L/min
Ventilator pressure (MIB)	-5 to 25 cmH2O -10 to 50 cmH2O -20 to 120 cmH2O	-5 to 25 cmH2O
Agent (MGM): Halothane, Isoflurane, Enflurane, Seflurane, Desflurane	0 - 1%, 0 - 2%, 0 - 3%, 0 - 5%, 0 - 10%, 0 - 20%	0 - 3%
O_2 (MGM)	20 - 50%, 20-100%	20 - 100%
Resp	5 - 100%	40%

Annotating Events

On the **Event Disclosure Review** Screen you can also annotate clinically significant events. For example, you can add a remark to an event such as *Chest Pain Decrease* after administering medications. A maximum of 100 comments can be stored per patient. If you attempt to store a comment once the maximum capacity has been reached, a popup appears alerting you that the storage capacity is full. If this happens, you must delete unnecessary comments to make room for new ones.

A list of frequently used terms is available to select from to annotate an event.

Annotating an event



1. Access the patient's Event Disclosure Review screen (page 14-9).
2. Scroll to the desired event either by clicking within the Event window or by using the ◀ **Next Event** ▶ button.
3. Click the right mouse button to activate the annotate popup list.
4. Either click on a term within the popup or type in a new comment (maximum of 25 characters).
5. Click on **Annotate** to add the comment to the event database or on **Exit** to leave the popup without storing an annotation.

After an annotation is assigned to an event, it appears at the top of the waveform of the Even Disclosure Review Screen. An icon displays in the upper right corner of the screen that you can use to select the event for a report .

Creating Your Own Annotations List

The annotations list contains a predefined set of terms that you cannot alter. However, you can add your own terms to the list (maximum capacity = 100 terms).

1. Open the patient's Event Disclosure Review screen (page 14-9).
2. Click on the right mouse button to activate the Notes popup.
3. Type in the note and click on the **+** button to *add* the entry to the top of the list; or highlight the list item to *delete* and press the **–** button.

NOTE: You cannot delete a predefined entry from the annotation list; you can only delete terms you have added manually.

Viewing Events

To view and navigate through stored events:

- Click on the time line of the Event Review screen and click on the ◀ **Next Event** ▶ arrows.

Viewing a class of events

1. Click on the *event class* option button (see arrow) to display an event class list with the number of events for each.
   All is the default event class that displays when the screen opens and includes all stored events.

NOTE: Only event classes that have had an event in the last 28, 48 or 72 hours (depending on the configured option) are listed unless the disclosure record was locked.

2. Click on the desired event class.

Deleting Events

You can either delete individual events or entire event categories.

To delete an individual event

1. Open the **Event Review** screen (page 14-9).
2. Select the event you wish to delete.
3. Click on **Delete...**
4. Click on **Event** to delete the currently displayed event (the previous event is displayed; if no previous events exist, the *next* event is displayed instead).

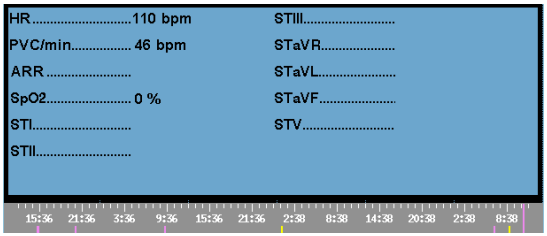
To delete an entire event class

1. Click on the *event class* option button to display a list.
2. Click on the event class you wish to delete.
3. Click on **Delete...**
4. Click on the **Event Class** button to delete the entire event class. This activates a confirmation popup.
5. Click on **Yes** in the popup to delete all of the events for the selected class or on **No** to exit the popup without deleting any events.

Viewing Parameter Values

To see parameter values stored at the time of an event:

1. Open the **Event Review** screen (page 14-9).
2. Click on **Show Parameters**.

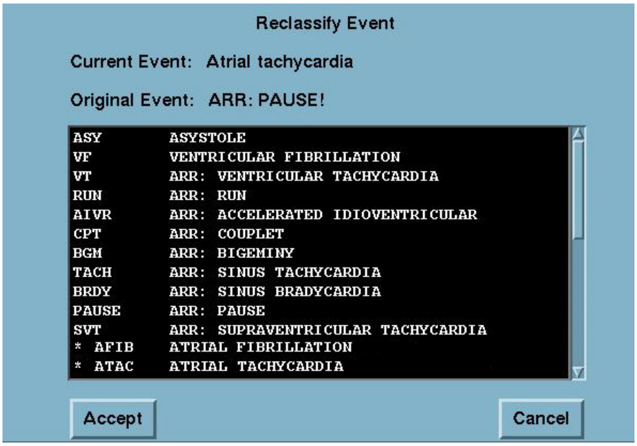


Arrow buttons may appear on either side of the parameter screen popup depending on the number of stored parameters for the events. Use these arrows to scroll through the list.

Renaming/Reclassifying Events

You can rename any stored arrhythmia event using labels from a pre configured selection menu as follows:

1. Open the **Event Review** screen (page 14-9) and select the event you wish to rename.
2. Click on **Reclassify**. The *Reclassify Event* popup displays.



The popup list includes all current Infinity arrhythmia class labels and ten additional labels with a preceding asterisk. These additional labels can either be the defaults or user-configured event names (page 16-5).

3. Select the desired event label and click on **Accept**.
A confirmation popup displays which asks you to confirm that you want to reclassify the **Current Event** with your selection.
4. Click on **Continue** in the confirmation popup to accept the change or **Cancel** to keep the current label.

The new label for the event displays on the Event Disclosure Review screen. If an event has a label that is user-configured, it is grouped in the event class, "other" (page 14-17).

You can only reclassify events if they are in one of the following arrhythmia categories. Otherwise, the **Reclassify** button is ghosted on the Event Review Screen.

ASY	VF	VT	RUN
AIVR	CPT	BGM	TACH
BRDY	PAUSE	SVT	OTHER

Disclosure Review Screen Cursor

When you open a Disclosure Review screen data is centered around the cursor time, which appears at the top right of the screen.

Changing the Cursor Time

Left-click the mouse anywhere on the displayed waveforms to change cursor time.

NOTE: Cursor time does not change when you scroll through the data or select a time on the time line.

The cursor height varies with the number of channels selected.

1 Channel cursor **2 Channel cursor**

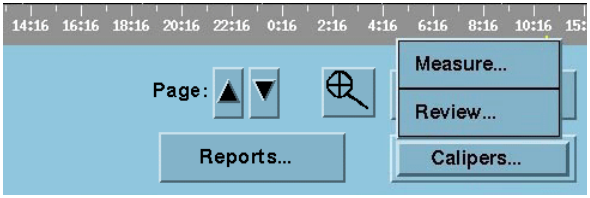
Full Disclosure ECG Caliper Tool

An on-screen ECG caliper tool allows you to obtain, calculate, store, and review time-based interval measurements and averages using Full Disclosure ECG data.

Before you can use the ECG caliper tool the Full Disclosure **Channel 1** setting must be set to display ECG data (page 14-14).

Accessing The ECG Caliper Screens

1. Open the **Full Disclosure Review** screen (page 14-9).
2. Position cursor over the ECG area you wish to measure.
3. Click on **Calipers...**
   A submenu displays.



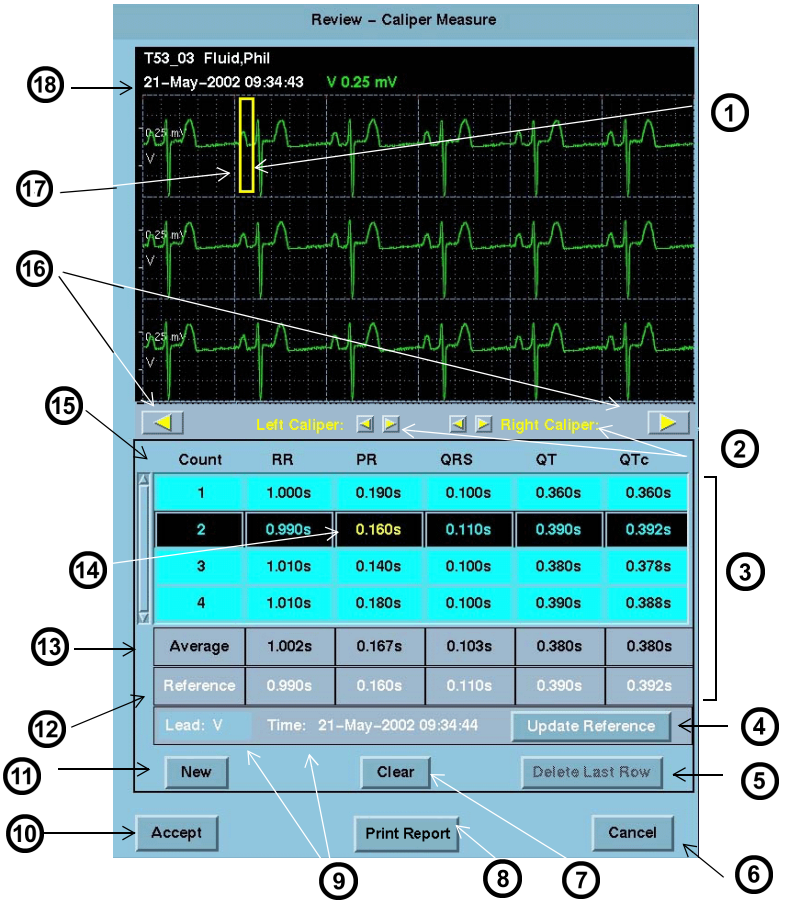
4. Click on the desired function.

Measure Executes **Caliper Measure** screen which uses 18 seconds of complete Full Disclosure ECG data following cursor time.

Review Executes **Caliper Review** screen.

NOTE: The **Review** button is ghosted when no measurements are stored for the patient.

Caliper Measure Screen



1	Waveform area - Right click mouse to move right caliper to any position on Waveform.	**10**	Accepts/Saves measurements, calculations, and averages
2	Caliper positioning adjustment controls	**11**	Generates new row of caliper measurements
3	Summary Table	**12**	Reference values (white text)
4	Updates reference	**13**	Interval averages
5	Deletes last row of measurements	**14**	Current measurement (yellow text)
6	Cancels measurements	**15**	Interval measurements and QTc
7	Resets selected row's measurements to zero	**16**	***Interval Advance Arrows*** rotate or "*march*" calipers to the next common interval in the strip. In order for the calipers to march, you must measure the first RR interval in the strip.
8	Generates an immediate printed report of current measurements (page 12-19)	**17**	Left click mouse to move left caliper to any position on waveform.
9	Last saved reference lead, date, and time	**18**	Cursor date and time

Waveform Area

Cursor time marks the first second of an 18-second ECG strip that displays at the top of the **Caliper Measure** screen. If less than 18 seconds of data follows the cursor in the FD review screen, the last full 18 seconds of data will display.

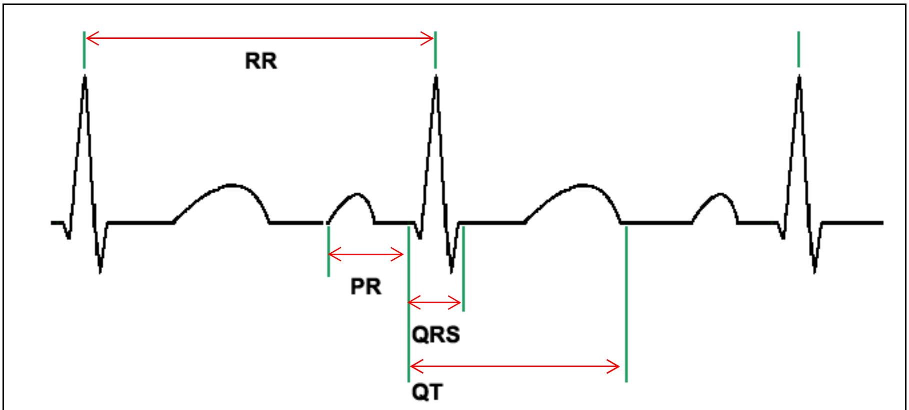
Initially the calipers appear at the beginning of the waveform but can be set by clicking the mouse buttons.

Summary Table

The summary table of the **Caliper Measure** screen displays interval measurements taken (page 14-24), calculated averages, and saved reference information (page 14-25).

It includes up to ten **Count** rows that contain RR, PR, QRS, and QT interval measurement entries, and calculates QTc for each corresponding RR and QT entry.

Interval Measurement Calculation



RR avg	Sum of RR intervals/quantity of samples
PR avg	Sum of PR intervals/quantity of samples
QRS avg	Sum of QRS intervals/quantity of samples
QT avg	Sum of QT intervals/quantity of samples
QTc	QT/square root of RR
QTc avg	Sum of QTc values/quantity of samples

Taking Interval Measurements

When the **Caliper Measure** screen first opens there is one highlighted row of measurements with zero values. As soon as one row of measurements is taken, these values display as **Average** measurements. All rows, except those containing no measurements, are used to calculate averages.

To measure an interval:

Your first measurement must be the RR interval in order to determine the QT interval. After you measure the first RR interval, measure the PR, QRS and QT intervals.

1. Move the cursor to the RR interval measurement box and click. The active measurement displays in yellow text.

2. Position the cursors over a complex in the ECG strip.
3. Right-click the mouse button to set the right caliper.
4. Left-click the mouse button to set the left caliper.

NOTE: It is not possible to set *negative* measurement values.

5. Move the cursor to the next interval measurement box and click.
6. Repeat steps 2 through 5 for each desired measurement interval of that complex.

   Once you measure an RR interval between complexes, you can use the ***Interval Advance Arrows*** (page 14-22) to *march* or rotate the cursors the distance of the RR interval along the strip.

After all your measurements are complete you can save the data for review or future report generation or you can print an ECG Caliper Report immedately.

- To save the measurements click on **ACCEPT**.
- To print an ECG Caliper report immediately click on **Print Report**.

If you **Cancel** the **Caliper Measurement** screen without saving data, a popup displays. To save measurements not previously stored, click on **Yes** in the popup.

Adding/Removing/Changing Measurement Rows

The **Caliper Measure** screen *Summary Table* holds up to ten rows of interval measurements that are used to determine averages.

To add a row of interval measurements:

1. Click on **New**. A row of interval measurements with zero values is added and is highlighted.
2. Complete interval measurements for the complex (page 14-24).
3. Repeat steps 1 and 2 for each new row. You can have up to ten **Count** rows.

To remove last row of interval measurements:

The **Delete Last Row** button is ghosted until more than one row of measurements exists and the last row of measurements is highlighted.

1. Click on any interval measurement in the last measurement row to select and highlight the row.
2. Click on **Delete Last Row** to remove the row from the summary table.

To reset a row of interval measurements:

1. Click on any interval measurement in a row to select and highlight the row.
2. Click on **Clear** to reset all measurements to zero.

Saving References

At the bottom of the summary table saved reference measurements appear in the row labeled **Reference** and display in white text. **Reference Time:** shows the last saved reference date and time.

Reference measurements are displayed and stored with all associated caliper interval measurements until a new reference is selected.

To save a reference:

1. Click on any interval measurement in a row to select and highlight the row.
2. Select **Update Reference** to save these reference measurements.

   When you save a new reference and reference values already exist, a popup displays requesting confirmation.
3. Select **YES** in the popup to update the reference.

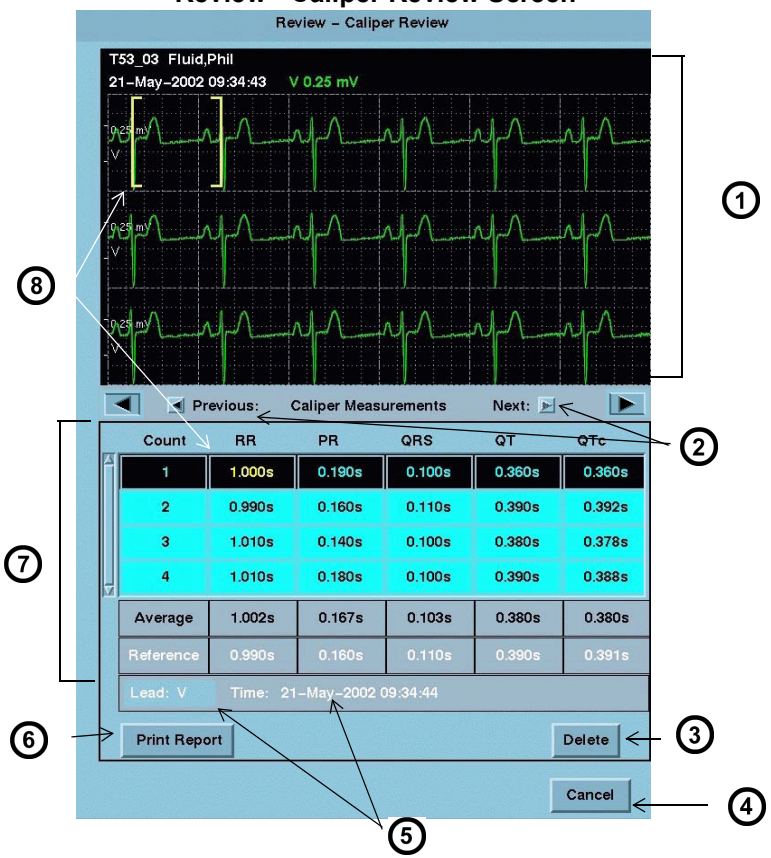
Caliper Review Screen

The **Caliper Review** screen lists all saved caliper measurements in its summary table. It can contain up to 72 hours of saved measurements.

From the **Caliper Review** screen you can:

- Delete saved measurements
- Generate a Caliper Report (page 12-19)

Review - Caliper Review Screen



1	Waveform Area	**5**	Last saved reference lead, date, and time
2	Scroll through saved measurements. (Arrows are ghosted at beginning and end of stored data.)	**6**	Generates Caliper Report (page 12-19)
3	Deletes saved measurements	**7**	Summary Table
4	Exit screen	**8**	Calipers display selected measurement (yellow text)

When the **Caliper Review** screen opens the latest saved interval measurements, averages, and associated references display along with the ECG waveform. Whenever you click on an interval measurement in the summary table, the calipers display the measured interval on the actual complex in the waveform area.

To open the **Caliper Review** screen see page 14-21.

To delete interval measurements:

1. Open the **Caliper Review** Screen.
2. Click on **Delete**.
   A popup displays. To remove ***all*** of the measurements in the summary table, click on **Yes** in the popup.

Full/Event Disclosure Reports

Reports that are generated at the **Full/Event Disclosure Review** screen follow.

Full Disclosure	Event Disclosure
• Strip Report	
• Shift Report	
• Graphical Trend Report	
• Selected Events Report	
• One-Hour Report	
• 24-Hour Report	
• Selected Strip Report	
• Patient Status Report	
• Caliper Report	

Depending on the printer setting, all Disclosure reports are either printed on a network or local laser printer. Full/Event Disclosure report requests are processed even if you exit Full Disclosure.

For detailed information on Disclosure reports and how to request them, see information that begins on page 12-23.

Exporting Full/Event Disclosure Data

NOTE: In order to export Full/Event Disclosure data from the Infinity CentralStation to a third party device, configuration of a destination IP address is required at Infinity CentralStation installation.

Exporting Full Disclosure Data to a Third-Party Device

This feature accommodates export of up to 4 channels x 25 hours of Full Disclosure data to a compatible third party device, such as a Reynolds Pathfinder Holter Analyser.

To Export Full Disclosure Waveforms:

1. Open the patient's **Full Disclosure** Screen (page 14-9).
2. Click on **Reports...**
   A popup menu displays.
3. Click on **Export Waveforms.**

NOTE:

- If the **Export Waveforms** selection is not listed, the destination IP address is not configured for the device. Consult your Biomed.
- The waveform export feature allows transfer of one file at a time, during which the **Export Waveforms** selection is ghosted.

To Export Full Disclosure Data:

1. Open the patient's **Full Disclosure** Review Screen (page 14-9).
2. Click on the cursor to set the *end time* of the data to be exported.
3. Click on **Reports.**
   A popup menu displays.
4. Click on **Export Strip**.

NOTE: If the **Export Strip** selection does not appear, the MegaCare System IP address is not configured. Consult your Biomed.

The **Export Strip** feature exports up to 4 waveforms each containing 18 seconds of data in which the cursor time marks the center of the exported waveform segment.

Exporting Event Disclosure Data to the MegaCare System

Assignment of a network IP address for the Dräger MegaCare system is required at Infinity CentralStation installation in order to export Event Disclosure information from the Infinity CentralStation to MegaCare.

To Export Event Disclosure Data:

1. Open the patient's **Event Disclosure**. Review screen (page 14-9).
2. Access the desired event
3. Click on **Reports...**
   A popup menu displays.
4. Click on **Export Event**.

NOTE: If the **Export Event** button does not appear, an IP address is not configured. Consult your Biomed.

The *Export Data* feature exports 18 seconds of the selected event's waveform data in which the event is the middle of the waveform segment, the event's cause string (e.g. ASY), and the parameter values at the time of the event.

Special Conditions

Various situations during patient monitoring may affect Full/Event Disclosure data collection.

Special Condition	Effect
The monitoring device is being powered up.	• Full Disclosure data storage resumes accordingly. • No Events are stored until the monitor is operational.
The monitoring device is powered down.	The Full/Event Disclosure data is stored.
CPS/IDS is offline, has failed, or is powered down.	• Blank spaces appear in the Full Disclosure data for the duration of the interruption. • No events are stored during the interruption.
The patient monitor is put in *Standby* mode.	• Blank spaces appear in the Full Disclosure data for the mode duration. • No events are stored for the mode duration.
Standby is canceled.	Storage of Full/Event Disclosure data resumes.
The patient is discharged at the bedside.	Full/Event Disclosure data remains until manually deleted at the Infinity CentralStation.
The patient demographics are changed.	Full/Event Disclosure data is stored under the edited demographics.
The bedside monitor is disconnected.	• The Full Disclosure database shows blanks for the duration of the interruption. A message describes the absence of data. • No events are stored while the monitor is disconnected.
The pod/cartridge or a signal source such as a transducer is connected.	Full Disclosure data collection begins for any displayed parameter that was selected for the Full Disclosure application.
The pod/cartridge or a signal source is disconnected.	Blanks will appear in the Full Disclosure display of the parameter for the duration of the interruption.
Network date and/or time changes.	Up to 20 system time changes are stored. The time stamps on the waveforms and event calls mark the time the data was actually stored.
The patient leads are changed at the bedside monitor while Full/Event Disclosure automatic waveform tracking is **OFF**.	Data may be missing since the leads selected for display on the bedside monitor may no longer correspond to the Infinity CentralStation storage settings.

15 VentCentral Option

To enable the VentCentral™ see page 16-7.

Overview

With the VentCentral option you can review a patient's ventilator and other third-party device parameters directly at the Infinity CentralStation.

NOTE:

- Certain parameters, identified as measured values, are derived from other values or settings provided by the ventilator and may not reflect actual values. See the operating instructions for your specific device for detailed information on derived measurements.
- The VentCentral option supports only modular monitors with VF and later software. If VentCentral is intended for use with an MIB device, the MIB must also have VF (or later) software.

The displayed parameters and settings may originate from bedside monitor-connected devices, such as:

NOTE: You cannot change any MIB-connected device settings from the Infinity CentralStation.

- Medical Information Bus (MIB)-connected Ventilators and anesthesia machines (See tables starting on page 15-22.)
- Infinity hemodynamic bedside monitors (parameters only)
- etCO2/Respiratory Mechanics Pod directly connected to a bedside monitor (parameters only)

Three Ventilator screens allow you to interact with the VentCentral option.

- *Ventilator screen*
- *Ventilator Settings Review screen*
- *Ventilator Setup screen*

WARNING! Ventilator data should be used for informational purposes only. Refer to the primary monitoring device before making therapeutic or diagnostic decisions. Also, do not rely on VentCentral alarms, always verify alarm condition at the actual device.

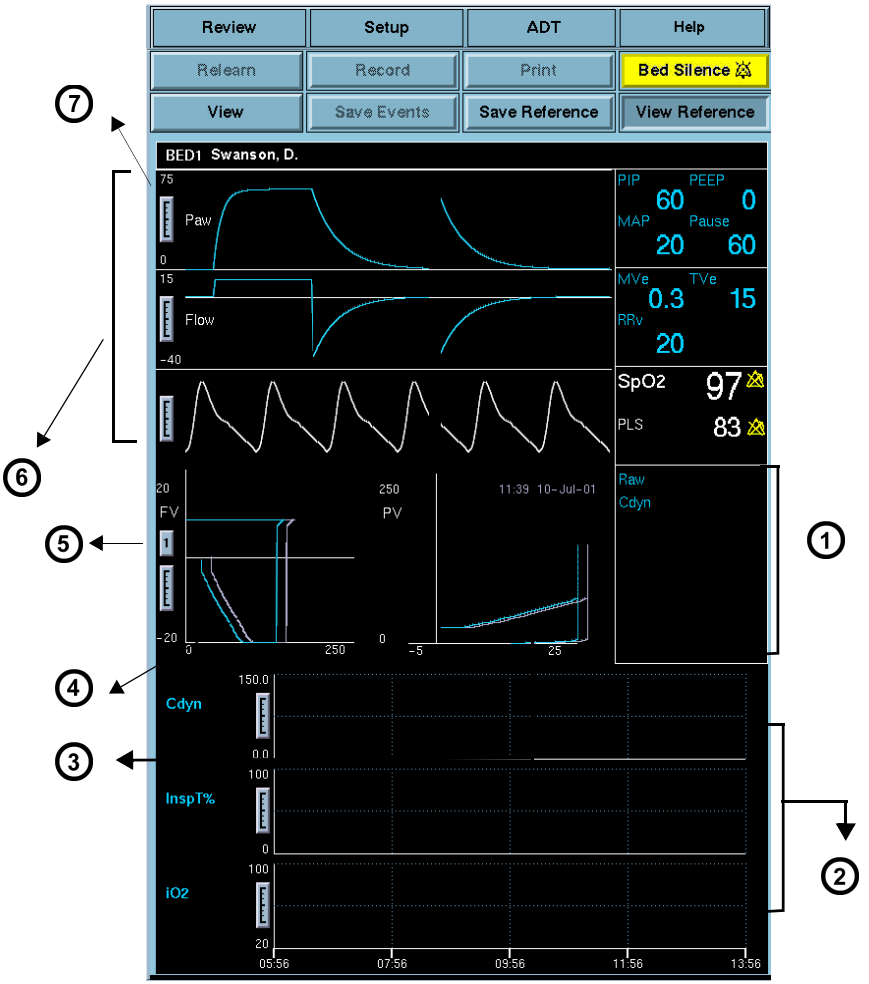
NOTE: Visual and audible alarm indications are not available from anesthesia machines and the SV 900 ventilator. Alarms are supported from the Dräger Fabius GS, Fabius CE and Primus anesthesia machines, however.

The VentCentral application interacts with MIB-compliant devices on the Infinity LAN.

Dräger has tested/validated the following supported MIB devices and software versions, and cannot make any claim for the reliability of data for other software versions.

Device	Software Version
Dräger Babylog Ventilator	5.00
Dräger Evita 1 Ventilator	Tested to published protocol Medibus Intensive Care 3.00/4.00
Dräger Evita 2 Ventilator	2.00
Dräger Evita 4 Ventilator	3.21
Dräger Evita XL ventilator	5.00
Dräger Savina ventilator	2.10
Hamilton Galileo Ventilator	GMP02.11a
Maquet SV 900 Ventilator	not applicable
Maquet SV 300/300A Ventilator	2.00
Maquet Servo*i* Ventilator	1.00
P - B 7200 Ventilator	SP1/PM Revision .005
P - B 840 Ventilator	4-070212-85-D
Taema Horus Ventilator	3.055/mdv -1.170
Dräger Cato Anesthesia System	Tested to published protocol Medibus anesthesia devices 3.00/4.00
Dräger Julian Anesthesia System	
Dräger Cicero Anesthesia System (B, C, EM)	
Dräger Julian Primus Anesthesia System	
Dräger Primus Anesthesia System	Tested to published protocol Medibus for Primus, Software 1.n, 2.n
Dräger Fabius GS Anesthesia System	Tested to published protocol Medibus anesthesia devices 4.00
Dräger Tiro	
Dräger Fabius CE	Tested to published protocol Medibus anesthesia devices 4.03
Dräger Apollo Anesthesia Workstation	
Dräger Zeus® Anesthesia System	3.n
Dräger Narkomed IIC	1.30
Dräger Narkomed IV	2.01
Dräger Narkomed 6000/6400	4.01
Ohmeda 7900 / Modulus CD anesthesia machine	2.8
etCO2/respiratory mechanics pod	VF0 (and later versions)
Viasys Bear 1000® Adult Ventilator	2020
Viasys BearCub® 750 Infant Ventilator	Tested to Viasys RS-232 communication protocol ER 11, revision E
Edwards/Baxter Vigilance SvO_2/CCO monitor	4.42, 5.02

The Ventilator Screen



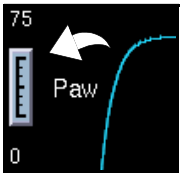
1	Parameter box with fixed set of parameters If a parameter is not available, the area is blank.	**5**	Select “1” for single loop and “4” for multi-loop display. During multi-loop configuration, four successive loops (of different shades) show. All loops erase and the sequence restarts after the fourth loop is complete.
2	8-hour trend of user-selected parameters	**6**	Display of 3 waveform channels
3	Pressure vs. Volume Loop	**7**	Waveform adjustment scale
4	Flow vs. Volume Loop		

Accessing the Ventilator Screen

1. Click on the patient's Main Screen parameter box. For information on accessing a remote patient, refer to page 6-4**.**
2. Click on **View**.
3. Click on **Ventilator**.

Scaling

If the VentCentral waveforms, loops, or trends appear clipped, you can change the display size by clicking on the scale at the left edge of the waveform area or to the left of the trends.



Waveform Area in Ventilator Screen

The Ventilator screen allows you to select up to three waveforms for display and prioritize their order (page 15-13). If a waveform is not available from the bedside or the MIB-connected device, the next waveform in the priority list is used to fill the three waveform areas. If less than three waveforms are available, waveform areas are blank.

Parameter Box

The parameter boxes to the right of the waveform area may consist of MIB and/or Infinity parameters and cannot be changed. These parameter boxes are independent of the bedside monitor and do not flash when a parameter is in alarm. MIB parameters do not support units, limits, and/or alarm-off icons. For Infinity parameters a crossed bell icon appears next to the parameter label when the alarm function is turned off.