

GE Healthcare

Pocket Viewer  
User's Guide



# Pocket Viewer User's Guide



Conformity according to the Council Directive 93/42/EEC concerning Medical Devices

CAUTION: U.S. Federal law restricts this device to sale by or on the order of a licensed medical practitioner.

Outside the USA, check local laws for any restriction that may apply.

All specifications are subject to change without notice.

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## Indications for use

The Pocket Viewer displays information received from other networked devices. It is comprised of a Mobile Care Server and Pocket Viewer clients.

The Mobile Care Server maintains and coordinates the network connections between the devices in the Datex-Ohmeda Network or the Unity Network, and the Pocket Viewer clients. The Pocket Viewer client runs on a generic handheld computer (PDA) that is connected to the hospital local area network (LAN).

The Pocket Viewer can be used for viewing or otherwise processing of information from several bedside monitors or other networked devices. The Pocket Viewer can be used for patients in hospital and it is meant for consultation and remote monitoring use.

The Pocket Viewer is not a primary alarm source. The device is for use by qualified medical personnel only.

## Related documents

For more information on...	See...
Using the iCentral	iCentral User's Reference Manual
The Datex-Ohmeda Network configuration and setup	Datex-Ohmeda Network Installation Guide
Monitored parameters and alarms on the screen	User manuals for bedside monitors connected to the Network
Using your PDA	PDA manufacturer's user documentation
Installing the Pocket Viewer	Mobile Viewers Technical Reference Manual

## **Responsibility of the manufacturer**

GE Healthcare Finland Oy (GE) is responsible for the safety, reliability and performance of the equipment only if:

- modifications, service and repairs are carried out by personnel authorized by GE.
- the electrical installation of the room complies with appropriate requirements.
- the equipment is used in accordance with this manual.

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This product includes software developed by the Apache Software Foundation  
<http://www.apache.org>

## **CE marking**

- The Mobile Server software, L-WEB05, is CE marked in accordance with the Medical Device Directive 93/42/EEC.

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## About this manual

The purpose of this manual is to describe the intended use of the Pocket Viewer, and to help you in using it in your daily routines.

### Conventions used in this manual

To help you find and interpret information easily, the manual uses consistent text formats:

- Command buttons are written in the following way: **Select All**.
- Software terms that identify window parts (pages, text boxes, list boxes, check boxes, menu commands) are written in bold italic typeface: *My Patients*.
- File names, file paths and text to be entered are written in the following way: comm.exe.

- Messages displayed on the display are written inside single quotes: 'You have been logged off because of x minutes of inactivity.'
- When referring to different sections in this manual or to other manuals, manual names and section names are enclosed in double quotes: See "[Waveforms view](#)." Please, refer to the "Datex-Ohmeda S/5 Anesthesia Monitor User's Guide: Messages."

- Cautions are written in the following way:

**CAUTION: This is a caution.**

- Warnings are written in the following way:

**WARNING: This is a warning.**

### **Illustrations and names**

All illustrations in this manual are only examples, and may not necessarily reflect your Pocket Viewer settings or data displayed. All names used in examples and illustrations are fictitious.

In this manual, the term care unit is used to refer to iCentrals and Centrals in the Datex-Ohmeda Network and Care Units in the Unity Network to simplify the description of various menu selections. In some menu pictures, care unit has been abbreviated as CU.

---

## Introduction

The Pocket Viewer belongs to the Mobile Viewers product range. Mobile Viewers are meant for remote monitoring of hospitalized patients.

With the Pocket Viewer you can view vital patient data and trends remotely and wirelessly in a PDA.

Patient data is measured by bedside monitors in the Datex-Ohmeda or Unity Network.

For PDA requirements, see page [53](#).

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## User authentication

Only authorized users can enter the Pocket Viewer. To start the application in a PDA, **Username** and **Password** are required. Contact your system administrator for obtaining them. For changing your password, see page [14](#).

---

## Automatic logoff

The system administrator can enable the automatic log-off feature through the "Administration Pages." In this case, the Pocket Viewer automatically logs the user out of the application after a predefined time of inactivity. This log-off time is also defined by the system administrator through the "Administration Pages." After the log-off time has expired, the start-up screen appears with the message 'You have been logged off because of x minutes of inactivity.'

---

## Pocket Viewer displays

The Pocket Viewer shows the same waveforms and numeric fields as the bedside monitor with some exceptions:

- Waveform colors, scales and units cannot be changed (NOTE: Waveform colors are configured through the Administration pages and cannot be changed by the user)
- Minitrends are not displayed
- Spirometry loops are not displayed
- Split screens are not displayed
- BIS data is not displayed
- NMT waveform is not displayed

- Waveforms are shown as cascaded if the same parameter is selected for two or more consecutive fields
- Some parameters of the Unity bedside monitors are not displayed
- Despite of the ECG module version used in the bedside monitor, the maximum number of ECG waveforms in the Pocket Viewer is three. The same applies for Unity monitors which support four ECG waveforms.

Also note that alarm indications may be slightly different from those of the monitor.

---

## How to start and exit

1. Tap **Start - Pocket Viewer**.
2. When you start the Pocket Viewer for the first time, select your language from the list.
3. The start-up screen appears.
4. Tap the **Server**, **Username** and **Password** text boxes one by one and type the information with the keyboard keys that appear on the screen.
5. Tap **OK**.

The message 'Starting up, please wait...' appears on the screen. Other messages indicate the progressing of the connection, see page [44](#).

When you start the Pocket Viewer the next time, the **Server** and **Username** you entered previously appear in these boxes automatically.

Patient	View	Setup
Pocket Viewer		
Server		
<input type="text" value="network.hospital.com"/>		
Username		
<input type="text" value="mike"/>		
Password		
<input type="password" value="*****"/>		
<input type="button" value="OK"/>		

To exit:

1. In any view, tap **Patient - Exit**.
2. Tap **Yes**.

---

## Configuration pages

When you enter the homepage of the Mobile Viewers, you can select the option **Enter Configuration Pages**. Through the **General** menu of the Configuration Pages you can change your password and select units for height, weight and energy expenditure at one go for all Mobile Viewers that you may be using.

In the Pocket Viewer specific menus you can edit waveform, graphical trend and numerical trend pages as well as sweep speeds and graphical trend scales. All these editing options are also available in the **Setup** menu of the Pocket Viewer application and explained later in this manual.

To enter the **Configuration Pages**:

1. Enter the specified URL address (homepage) of the Mobile Viewers into the address line of the browser. You can get the URL address from your system administrator.
2. Click **Enter Configuration Pages**. The Login screen appears.
3. Give your **Username** and **Password** in the text boxes.
4. Click **OK**.

The main configuration view appears.

The screenshot shows a web interface titled "Configuration Pages for Mobile Viewers". Below the title, the user's name "Jones (Bill Jones)" is displayed. A horizontal line separates the header from the main content area. On the left side of the main content area, there is a vertical list of menu items: "General", "Web Viewer", "Pocket Viewer", and "Cellular Viewer". At the bottom center of the interface, there is a rectangular button labeled "Logout".

## Configuration Pages for Mobile Viewers

Jones (Bill Jones)

- General
- Web Viewer
- Pocket Viewer
- Cellular Viewer

Logout

---

## General settings

Note that these settings affect all Mobile Viewers that you may be using.

## Managing My Patients list

More detailed instructions regarding the use of **My Patients** list are given later in this manual, see page [22](#). However, you can easily manage the list also through the **Configuration Pages**.

1. Click **General - My Patients**.

To add patients to the list:

1. Click **Manage My Patients**.
2. Click the care unit name.
3. Check the **My** box for all those monitors you want to include in your list. Optionally, you can click **Select All** to include all monitors connected to this care unit.
4. Click **OK**.

To remove patients from the list:

1. Click **Manage My Patients**.
2. Click the care unit name.
3. Uncheck the **My** box for all those monitors you want to remove from your list. Optionally, you can click **Unselect All** to remove all monitors connected to this care unit.
4. Click **OK**.

NOTE: If the desired care unit or monitor does not appear in the list, see "[Problems?](#)" on page [42](#).

- General
- My Patients
  - My Patients List
  - Manage My Patients
- Change Password
- Units
- Web Viewer
- Pocket Viewer
- Cellular Viewer

## Manage My Patients

	My	Central / Unit	Monitor Name	Patient Name
Care Unit 1	<input checked="" type="checkbox"/>	Care Unit 1	Monitor 1	
Care Unit 2	<input checked="" type="checkbox"/>	Care Unit 1	Monitor 2	
Care Unit 3	<input checked="" type="checkbox"/>	Care Unit 1	Monitor 3	
Care Unit 4	<input type="checkbox"/>	Care Unit 1	Monitor 4	
Care Unit 5	<input type="checkbox"/>	Care Unit 1	Monitor 5	
Care Unit 6	<input checked="" type="checkbox"/>	Care Unit 1	Monitor 6	
		Care Unit 1	Monitor 7	
		Care Unit 1	Monitor 8	
Select All			Unselect All	
OK			Cancel	

Logout

## Changing your password

You can change your password through the **Configuration Pages**. This affects all Mobile Viewers that you may be using. The minimum number of characters is six, and the maximum number is 30. Passwords are case-sensitive.

1. Click **General - Change Password**.
2. Enter your new password in the **New password** text box.
3. Enter your new password again in the **Repeat new password** text box.
4. Click **OK**.

- General
- My Patients
- Change Password
- Units
- Web Viewer
- Pocket Viewer
- Cellular Viewer

Logout

## Change Password for User

New password

\*\*\*\*\*

Repeat new password

\*\*\*\*\*

OK

Cancel

## Selecting units

You can change the units for height, weight and energy expenditure through the **Configuration Pages**, or through the **Setup** menu of the Pocket Viewer application; for instructions, see “[Editing units](#)” on page 41. All other units are defined by the bedside monitor.

## Pocket Viewer specific Configuration Pages

Through the **Configuration Pages**, you can also enter the Pocket Viewer specific pages. The options are the same as the ones in the Pocket Viewer application’s **Setup** menu. To edit waveform and trend pages either through the **Configuration Pages** or the **Setup** menu, refer to instructions given in “[Changing the settings](#)” on page 34.

## Exiting the Configuration Pages

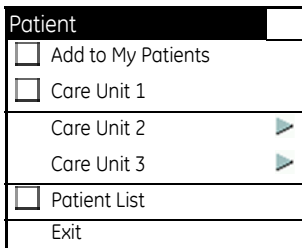
You can exit the **Configuration Pages** by clicking **Logout**.

For your notes:

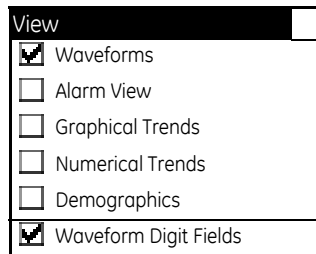
---

## Menu bar

The Pocket Viewer has a menu bar with the following menus:



- The **Patient** menu shows all care units connected to the Network. Also the patients included in the **My Patients** list appear in this menu. In the **Patient** menu you can select the care unit and then the patient for remote viewing, see page [23](#).



- In the **View** menu you can choose what type of patient data (waveforms, graphical trends, numerical trends, alarms or patient demographics) you want to see on the screen, see page [24](#).

Setup	
<input type="checkbox"/>	Waveform Pages
<input type="checkbox"/>	Graphical Trend Pages
<input type="checkbox"/>	Graphical Trend Scales
<input type="checkbox"/>	Numerical Trend Pages
<input type="checkbox"/>	Sweep Speeds
<input type="checkbox"/>	Units

- In the **Setup** menu you can change the contents of different views if necessary, see page [34](#).

# Selecting patients

## Using the Patient List

The **Patient List** view appears on the screen when the connection is ready. You can also select the **Patient List** through the menu bar selection **Patient - Patient List**.

To select a patient:

1. Select the desired care unit in the list. You can also use the PDA navigation button:



previous care unit  
next care unit

2. Tap the desired monitor or patient name in the list area.

The previously used view appears on the screen.

Patient	View	Setup
▼	My Patients	
	Care Unit 1	Name / ID
<input checked="" type="checkbox"/>	Care Unit 2	
<input checked="" type="checkbox"/>	Care Unit 3	
<input type="checkbox"/>	Care Unit 4	
<input checked="" type="checkbox"/>	Monitor 2:	Patient A
<input checked="" type="checkbox"/>	Monitor 3:	Patient B
<input type="checkbox"/>	Monitor 5:	Patient C

Note! This is not a primary alarm source.

## Contents of the Patient List

The **Patient List** has three columns:

- You can create your own **My Patients** list with the check boxes in the **My** column, see [“Creating the My Patients list”](#) next page. You can also add patients to this list through **Patient - Add to My Patients**. You can delete patients from the list by unchecking the **My** box, or by selecting **Patient - Remove from My Patients**. Note that these settings affect all Mobile Viewers that you may be using.
- In the **Location** column you can see the monitor names. For more information, see [“Organizing the Patient List view.”](#)
- In the **Name / ID** column you can see the patient name and if available, also the ID. If there is no patient name, only the ID is shown. The system administrator can also choose the option of not showing any patient identification.

## Organizing the Patient List view

By default, the **Patient List** view is organized alphabetically according to monitor names in the **Location** column.

You can organize the list in different ways:

- Tap the **My** column header to organize the list so that patients included in the **My Patients** list are listed first according to their **Name / ID**, and then the rest of the patients, also alphabetically.
- Tap the **Location** column header to organize the list according to monitor names.
- Tap the **Name / ID** column header to organize the list according to patient names. Patients with names are listed first, and then any patients without a name according to their **Location** name.

## Creating the My Patients list

The **My Patients** list is empty until you add monitors to it. You can add monitors from several care units. Note that these settings affect all Mobile Viewers that you may be using.

NOTE: You can also do this through the **Configuration Pages**, see page [10](#).

To create your own list:

1. Tap **Patient**. To include the currently viewed monitor in your list, tap **Add to My Patients**. When removing the currently viewed monitor from the list, tap **Remove from My Patients**.

Another way of doing this is using the **Patient List**:


1. Tap **Patient - Patient List**.
2. Select a care unit in the list. All monitors connected to it appear in the **Patient List** view.
3. To add monitors to your own **My Patients** list or to remove them from it, check or uncheck the **My** box.

---

## Using the Patient menu

You can select a patient to the screen by using the **Patient List** view as explained previously, or the **Patient** menu:

1. Tap **Patient** and select the care unit.
2. Select the bedside monitor.
3. The previously used patient view appears on the screen.

Patient	View	Setup
<input type="checkbox"/>	Add to My Patients	
<input type="checkbox"/>	Care Unit 1: Monitor 1	
<input type="checkbox"/>	Care Unit 1: Monitor 2	
<input type="checkbox"/>	Care Unit 1: Monitor 3	
	Care Unit 2	
	Care Unit 3	<input checked="" type="checkbox"/> Monitor 4
	Care Unit 4	<input type="checkbox"/> Monitor 5
		<input type="checkbox"/> Monitor 6
<input type="checkbox"/>	Patient List	

---

## Viewing patient data

You can choose to view different types of patient data: waveforms, graphical trends, numerical trends, alarms or demographics.

---


### Using pages

When viewing waveforms, graphical trends or numerical trends, you can choose different combinations of parameters to the screen. These predefined sets of parameters are called pages.

The waveform view, graphical trends view and numerical trends view have ten available pages each. Only configured pages appear in the list, empty pages are not shown.

Pages can be configured through the **Setup** menu, see page [34](#). Only the first two waveform pages, **Bedside 1** and **Bedside 2**, cannot be changed.

For the factory default settings of all pages, see page [47](#).

Patient	View	Setup	
<b>Care Unit 1: Monitor 2</b>		<b>Patient 2</b>	
▼	1: Vital parameters	▼	5 min
20 Oct 2005	2: Invasive 3: Swan-Ganz 4: Ventilation 1	CO2 %	NIBP sys/dia mmHg
11:35	5: Ventilation 2		▲
11:40	84		
11:45	82		
11:50	82		
11:55	84		
12:00	84		
12:05	84		
12:10	72		
12:15	72		
12:20	75		▼
Note! This is not a primary alarm source.			

---

## Waveforms view


First select the patient, see pages [20](#) and [23](#).

1. Tap **View - Waveforms**.
2. To select which waveform pages you want to see on the screen, tap the page list and select:
  - **Bedside 1**: first three waveforms and two digit fields of the bedside monitor
  - **Bedside 2**: further waveforms and digit fields of the bedside monitor
  - **Page 3 - Page 10**: user configurable pages that appear in the list only after they have been configured; for factory defaults, see page [47](#).

3. To show or hide the digit fields beside the waveforms, tap **View - Waveform Digit Fields** or tap a waveform title bar. You can also use the PDA navigation button:



4. To stop the waveforms, tap the command button **Freeze**. To unfreeze, tap **Unfreeze** (the button text changes). The waveforms are also automatically unfrozen after 60 seconds or when the patient or view is changed.

Patient	View	Setup
Care Unit 1: Monitor 2	Patient 3	
<div style="display: flex; align-items: center;"> <span style="font-size: 1.2em;">▼</span> <span style="margin-left: 5px;">1:Vital parameters</span> </div>		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Freeze</div>
	H R	12:11
	ECG	PVC
S T	mm /min	86 0
C O 2	ET	0.0%
	FiO2	21%
	RR	APN/min
<div style="border: 1px solid black; padding: 2px;">NIBP</div>		<div style="border: 1px solid black; padding: 2px;">Static spirometry</div>
<div style="border: 1px solid black; padding: 2px;">mmHg Sys Dia</div>		<div style="border: 1px solid black; padding: 2px;">Compl Pplat PEEPe+i</div>
<div style="font-size: 1.5em; font-weight: bold;">154 / 84</div>		<div style="font-size: 1.5em; font-weight: bold;">--- --- +-</div>
<div style="border: 1px solid black; padding: 2px;">Manual</div>		<div style="border: 1px solid black; padding: 2px;">ml/cmH2O cmH2O :-</div>
<p>Note! This is not a primary alarm source.</p>		

---

## Alarm view

In the **Alarm View**, all active alarms of the selected patient are shown with a symbol indicating the alarm priority, and the alarm message. The maximum number of alarms shown on the screen is five.

1. Tap **View - Alarm View** or tap the alarm symbol in any view.
2. To return to the previous view, tap the alarm symbol button again. You can also tap **View** and select any other view.

NOTE: See the bedside monitor manuals for all alarm messages.

NOTE: The alarm indications may be slightly different from those of the bedside monitor.

The alarm symbols are the following:



RED icon: a high priority alarm




YELLOW icon: a medium priority alarm






WHITE icon: a low priority alarm

**WARNING: The Pocket Viewer is not intended to be used as a primary alarm source.**

Patient View Setup

Care Unit 1: Monitor 2 Patient 3 

Active Alarms:

-  Apnea
-  SpO2 probe off
-  Check D-Fend

Note! This is not a primary alarm source.

---

## Graphical Trends view

1. Tap **View - Graphical Trends**.
2. Select the page (up to ten pages can be configured) in the page list. You can also use the PDA navigation button:



previous page

next page

3. Select the trend length in the list.
4. To scroll a trend page, use the horizontal scroll bar arrows or drag the scroll box.
5. To have a cursor in the trends, tap any point in a trend. You can see numeric values beside the cursor and the time of the measurement above the scroll bar.

NOTE: The cursor remains in that point of time even when you change the page or select numerical trends for viewing.

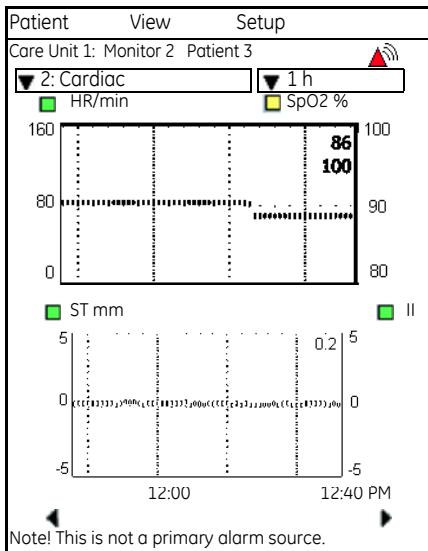
6. To move the cursor, drag it or tap another point in the trends.

You can also use the PDA navigation button:

cursor to the left



cursor to the right

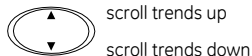


## Numerical Trends view


1. Tap **View - Numerical Trends**.
2. Select the page (up to ten pages can be configured) in the page list. You can also use the PDA navigation button:



3. Select the trend resolution in the list.
4. To scroll the trends, use the vertical scroll bar arrows or drag the scroll box. You can also use the PDA navigation button:



5. To have a cursor in the trends, tap any point in a trend. The trend cursor remains in the same place even when the trend view is changed between different pages or between graphical and numerical trends.

Patient	View	Setup	
Care Unit 1: Monitor 2		Patient 2	
▼ Vital parameters		▼ 5 min	
23 Oct 2005	HR /min	SpO2 %	NIBP sys/dia mmHg
11:55	84		
12:00	84		
12:05	84		
12:10	84		
12:15	69		
12:20	69		
12:25	69		
12:30	69		
12:35	86		
Note! This is not a primary alarm source.			


## Demographics view

### 1. Tap **View - Demographics**.

You can see the following information from the bedside monitor:

- Patient ID
- Last Name
- First Name
- Middle Name
- Date of Birth in format 01 Jan 1970
- Age
- Gender
- Height
- Weight
- BSA

NOTE: The patient name and ID may not be shown. This is configured through the "Administration Pages", see the "Mobile Viewers Technical Reference Manual."

Patient	View	Setup
Care Unit 1: Monitor 2	Patient 2	
Demographics		
Patient ID	09890	
Last Name	WALLACE	
First Name	BILL	
Middle Name		
Date of Birth	09 Mar 1953	
Age	52 years	
Gender	Male	
Height		
Weight		
BSA	1.85 m2	
Note! This is not a primary alarm source.		

---

## Changing the settings

If necessary, you can edit waveform and trend views through the **Setup** menu. You can also use the **Configuration Pages** of the Mobile Viewers for performing these tasks. Each user can configure the views differently, and they can then be viewed with that particular username and password.

You can give names to different pages, select their parameters, trend scales, sweep speeds and units for height, weight and energy expenditure. The pages can always be returned to their default values set by the system administrator.

The instructions given in this manual also apply to the **Configuration Pages** with the following differences:

- To start, you must enter the Pocket Viewer specific **Configuration Pages** on the homepage of the Mobile Viewers:
  1. Click **Enter Configuration Pages**.
  2. Login.
  3. Click **Pocket Viewer**.
- On the **Configuration Pages**:
  - **Sweep Speeds** can be edited in the **Waveform View** menu.
  - **Trend Scales** can be edited in the **Graphical Trends** menu.
  - You can exit the **Configuration Pages** with the **Logout** button.
  - **Units** can be edited in the **General** menu (NOTE: This is not a Pocket Viewer specific menu).
  - When clicking **Set to Default**, no confirmation is required.

The different options in the Pocket Viewer **Setup** menu are:

- **Waveform Pages**, see page 36.
- **Graphical Trend Pages**, see page 37.
- **Graphical Trend Scales**, see page 38.
- **Numerical Trend Pages**, see page 39.
- **Sweep Speeds**, see page 40.
- **Units**, see page 41.

See also “[Factory default settings](#)” on page 47.

Setup	
<input type="checkbox"/>	Waveform Pages
<input type="checkbox"/>	Graphical Trend Pages
<input type="checkbox"/>	Graphical Trend Scales
<input type="checkbox"/>	Numerical Trend Pages
<input type="checkbox"/>	Sweep Speeds
<input type="checkbox"/>	Units

## Editing waveform pages

1. Tap **Setup - Waveform Pages**.
2. Select **Page 3 - Page 10** in the page list. Pages named **Bedside 1** and **Bedside 2** cannot be changed but all the others can.
3. To change or enter the page name, tap the **Name** text box and type the name.
4. Select parameters for **Waveform field 1 - Waveform field 4** in the lists.
5. Select either **Waveform field** or **Digit field1 - Digit field 2** to the screen by tapping the corresponding radio button.
6. Select parameters for **Waveform field** or **Digit field 1 - Digit field 2** in the lists.
7. Tap **OK** to save the settings or **Cancel** to exit the setup without saving.

To return to the default settings set by the system administrator, tap **Set to Default - Yes**.

Patient	View	Setup
Waveform View Pages Setup		
▼ 3: Empty		
Page setup		
Name	Empty	
	Waveform field 1	▼ OFF
	Waveform field2	▼ OFF
	Waveform field 3	▼ OFF
<input checked="" type="radio"/>	Waveform field 4	▼ OFF
<input type="radio"/>	Digit field 1	Digit field 2
	▼ OFF	▼ OFF
Set to Default		
OK Cancel		

Note! This is not a primary alarm source.

## Editing graphical trend pages

1. Tap **Setup - Graphical Trend Pages**.
2. Select **Page 1 - Page 10** in the page list.
3. To change or enter the page name, tap the **Name** text box and type the name.
4. Select parameters for **Field 1** and **Field 2** in the lists.
5. Tap **OK** to save the settings or **Cancel** to exit the setup without saving.

To return to the default settings set by the system administrator, tap **Set to Default - Yes**.

Patient	View	Setup
Graphical Trend Pages Setup		
▼ 1: Vital parameters		
Page setup		
Name	<input type="text" value="Vital parameters"/>	
Field 1	<input type="text" value="▼ P1+HR"/>	
Field 2	<input type="text" value="▼ CO2+SpO2"/>	
<input type="button" value="Set to Default"/>		
<input type="button" value="OK"/> <input type="button" value="Cancel"/>		
Note! This is not a primary alarm source.		

## Editing graphical trend scales

1. Tap **Setup - Graphical Trend Scales**.
2. Select parameters to the screen by scrolling the view with the vertical arrows or dragging the scroll box.
3. Select trend scales in the parameter specific lists.
4. Tap **OK** to save the settings or **Cancel** to exit the setup without saving.

To return to the default settings set by the system administrator, tap **Set to Default - Yes**.

Patient	View	Setup
Graphical Trend Scales Setup		
HR	▼ 0-160 /min	▲
PVC	▼ 0-24 /min	
ST	▼ -5...+5 mm	
CPP	▼ 0-200 mmHg	
PCWP	▼ 0-30 mmHg	
C.O.	▼ 0-9 l/min	
SpO2	▼ 80-100%	
PgCO2	▼ 0-10 kPa	
VO2	▼ 0-400 ml/min	
EE	▼ 0-3000 kcal/d	
		▼
OK	Cancel	Set to Default
Note! This is not a primary alarm source.		

## Editing numerical trend pages

1. Tap **Setup - Numerical Trend Pages**.
2. Select **Page 1 - Page 10** in the page list.
3. To change or enter the page name, tap the **Name** text box and type the name.
4. Select parameters for **Column 1 - Column 4** in the lists.
5. Tap **OK** to save the settings or **Cancel** to exit the setup without saving.

To return to the default settings set by the system administrator, tap **Set to Default - Yes**.

Patient	View	Setup
Numerical Trend Pages Setup		
▼ 1: Vital parameters		
Page setup		
Name	Vital parameters	
Column 1	▼ HR	
Column 2	▼ SpO2	
Column 3	▼ NIBP	
Column 4	▼ CO2	
Set to Default		
OK	Cancel	
Note! This is not a primary alarm source.		

## Editing sweep speeds

1. Tap **Setup - Sweep Speeds**.
2. Select sweep speeds in the parameter specific lists.
3. Tap **OK** to save the settings or **Cancel** to exit the setup without saving.

To return to the default settings set by the system administrator, tap **Set to Default - Yes**.

Patient	View	Setup
Hemodynamics		▼ 25 mm/s
CO2		▼ Fast (6.25 mm/s)
O2		▼ Fast (6.25 mm/s)
AA		▼ Fast (6.25 mm/s)
Paw		▼ Fast (6.25 mm/s)
Flow		▼ Fast (6.25 mm/s)
Resp		▼ Fast (6.25 mm/s)
EEG		▼ 25 mm/s

OK Cancel Set to Default

Note! This is not a primary alarm source.

## Editing units

1. Tap **Setup - Units**. The default settings are given in brackets after each list box.
2. Select the unit in the **Height** list.
3. Select the unit in the **Weight** list.
4. Select the unit in the **EE** list.
5. Tap **OK** to save the settings or **Cancel** to exit the setup without saving.

To return to the default settings set by the system administrator, tap **Set to Default - Yes**.

NOTE: These settings affect all Mobile Viewers that you may be using.

Patient	View	Setup
Units Setup		
Height	<input type="text" value="▼ cm"/>	(cm)
Weight	<input type="text" value="▼ kg"/>	(kg)
EE	<input type="text" value="▼ kcal/d"/>	(kcal/d)
<input type="button" value="OK"/> <input type="button" value="Cancel"/> <input type="button" value="Set to Default"/>		
Note! This is not a primary alarm source.		

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## Problems?

If you have any problems, first consult the following pages. If the problem persists, contact the Network administrator or GE Healthcare technical support. Also refer to the documentation delivered with your handheld computer.

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
No patient Name/ID visible	System administrator has chosen not to show patient name or ID.	Contact the system administrator.
The connection cannot be established	Several possible causes.	Check the message on the screen and see the following pages.
The monitor cannot be selected for viewing	The monitor is not on or the connection to the care unit has failed.	Make sure that the monitor is turned on and the monitor - network connection is properly done.

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
The desired care unit or monitor is not in the list	The care unit is not turned on, named properly or connected to the network that the Pocket Viewer is viewing.	Make sure that the care unit is on. Contact the system administrator and make sure that the care unit and network connection is properly done and the monitors are properly named.
	User rights do not allow viewing this care unit/monitor.	Contact the system administrator for obtaining rights to view this care unit/monitor.
The Pocket Viewer does not respond to user input, or waveforms or digits are frozen on the display	Underlying operating system may have halted.	Turn the PDA off and back on to ensure a stable application environment.

## System messages

Message	Cause	Solution
All licenses are already in use. Try again later.	All simultaneous Pocket Viewer licenses are already in use.	Try again when someone else has stopped using the license.
Cannot connect to server	The connection could not be established in 20 seconds.  The Mobile Care Server name may be wrong.	Tap <b>Retry</b> command button to try a new connection. If this fails, tap <b>Cancel</b> to return to the start-up screen. Check the network connection (WLAN or GSM).  Check the Mobile Care Server name.
Connection to the monitor lost	The network may be down or the monitor is not connected to this network.	Check that the network and monitor are working. Select another monitor or wait for the message to disappear.
Connection to server lost, trying to reconnect...	The Pocket Viewer has lost connection to the network and is trying to reconnect.	Wait for about 20 seconds.
The connection to server was lost	The Pocket Viewer could not reconnect to the network.	Check the network connection (WLAN or GSM). Log in again. Restart the application.

Message	Cause	Solution
Licensing error. Please contact your system administrator.	There has been an error in the licensing process.	Contact the system administrator.
Login incorrect	You have given a wrong <b>Username</b> or <b>Password</b> .	Give your <b>Username</b> and <b>Password</b> again.
	You do not have a valid user account.	Contact the system administrator.
No licenses for Pocket Viewer. Please contact your system administrator.	There are no suitable licenses.	Contact the system administrator.
Receiving trend data. Please wait.	The Pocket Viewer is updating the display.	Wait.
User account locked. Please contact your system administrator.	You have failed the login too many consecutive times.	Contact the system administrator.
There was an error while saving the setup to the server. The settings were not saved.	Due to network problems the settings were not saved.	Check network connection. Try again.

Message	Cause	Solution
Trend data not available	There is no trend data for the selected patient.  You are viewing an S/5 Light Monitor.	Select another view or another patient.  No trends are available from an S/5 Light Monitor.
Waveforms frozen	You have stopped the waveforms in the <b>Waveform View</b> .	Tap the <b>Unfreeze</b> command button, tap <b>View - Unfreeze</b> or wait until the waveforms are unfrozen automatically.
You have been logged off because of x minutes of inactivity.	The automatic log-off feature has logged you out of the system after the time defined by the system administrator.	Log in again.

If the problem persists, contact the system administrator or GE Healthcare technical support.

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# Factory default settings

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## Waveform pages

**Page 1: Bedside 1** according to bedside monitor

**Page 2: Bedside 2** according to bedside monitor

### Page 3 (Empty):

Waveform field 1 - 4 OFF

Digit field 1 - 2 OFF

### Page 4: Invasive

Waveform field 1 ECG1

Waveform field 2 P1

Waveform field 3 P2

Waveform field 4 OFF

Digit field 1 NIBP

Digit field 2 SpO2+Temp

### Page 5: Swan-Ganz

Waveform field 1 ECG1

Waveform field 2 P1

Waveform field 3 P4

Waveform field 4 OFF

Digit field 1 C.O.+PCWP

Digit field 2 Temp

### Page 6: Cardiac

Waveform field 1 ECG1

Waveform field 2 ECG2

Waveform field 3 P1

Waveform field 4 OFF

Digit field 1 NIBP

Digit field 2 SpO2+Temp

## Waveform pages (cont.)

### Page 7: Ventilation

Waveform field 1	Paw
Waveform field 2	O2
Waveform field 3	CO2
Waveform field 4	OFF
Digit field 1	SpO2
Digit field 2	Resp

### Page 8: Anesthesia

Waveform field 1	ECG1
Waveform field 2	Pleth
Waveform field 3	CO2
Waveform field 4	OFF
Digit field 1	NIBP
Digit field 2	Gases

### Page 9: Neuro

Waveform field 1	EEG1
Waveform field 2	EEG2
Waveform field 3	EEG4
Waveform field 4	EEG4
Digit field 1	OFF
Digit field 2	OFF

### Page 10: Empty

Waveform field 1 - 4	OFF
Digit field 1 - 2	OFF

---

## Graphical trend pages

### Page 1: Vital parameters

Field 1	P1/NIBP + HR
Field 2	CO2+SpO2

### Page 2: Cardiac

Field 1	HR+SpO2
Field 2	ST

### Page 3: Arrhythmia

Field 1	HR+PVC
Field 2	ST

### Page 4: Swan-Ganz

Field 1	P1/NIBP + P2
Field 2	C.O.+PCWP

### Page 5: Ventilation

Field 1	CO2+SpO2
Field 2	Airway

### Page 6: Depth of anesthesia

Field 1	CO2+AA
Field 2	EEG1

### Page 7: NMT

Field 1	T1+T2
Field 2	NMT

### Page 8 - 10: Empty

Field 1	OFF
Field 2	OFF

---

## Graphical trend scales

HR	0 to 240 /min
PVC	0 to 24 /min
ST	-5 to +5 mm
CPP	0 to 200 mmHg
PCWP	0 to 30 mmHg
C.O.	0 to 9 l/min
SpO <sub>2</sub>	80 to 100%
VO <sub>2</sub> &VCO <sub>2</sub>	0 to 400 ml/min
EE	0 to 3000 kcal/d
PgCO <sub>2</sub>	0 to 10 kPa
T <sub>1</sub> - T <sub>4</sub>	20 to 40 °C
T <sub>blood</sub>	20 to 40 °C
EEG SEF	0 to 30 Hz
EEG Amplitude	0 to 100 µV
EEG MF	0 to 30 Hz

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## Sweep speeds

Hemodynamics	25 mm/s
CO2	Fast (6.25 mm/s)
O2	Fast (6.25 mm/s)
AA	Fast (6.25 mm/s)
Paw	Fast (6.25 mm/s)
Flow	Fast (6.25 mm/s)
Resp	Fast (6.25 mm/s)
EEG	25 mm/s

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## Units

Height	cm
Weight	kg
EE	kcal/d

---

## Numerical trends

### Page 1: Vital parameters

Column 1	HR
Column 2	SpO2
Column 3	NIBP
Column 4	CO2

### Page 2: Invasive

Column 1	HR
Column 2	P1
Column 3	P2
Column 4	SpO2

### Page 3: Swan-Ganz

Column 1	P4
Column 2	PCWP
Column 3	C.O.
Column 4	SvO2

### Page 4: Ventilation 1

Column 1	SpO2
Column 2	O2
Column3	Pplat
Column4	PEEPtot

### Page 5: Ventilation 2

Column 1	SpO2
Column 2	Resp
Column 3	TVexp
Column 4	Pmean

### Page 6: Entropy and NMT

Column 1	Entropy RE
Column 2	Entropy SE
Column 3	Entropy BSR
Column4	Ratio%

### Page 7 - 10: Empty

Column 1-4      OFF

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## PDA requirements

For the PDA technical specifications, refer to its user documentation.

### PDA requirements

With TI OMAP 1510:

- 175 MHz or better
- Windows Mobile 2003 software for Pocket PC - Phone Edition
- Windows Mobile 5.0 for Pocket PC

With Intel PXA/XScale processor:

- 400 MHz or better
- Windows Mobile 2003 software for Pocket PC
- Windows Mobile 5.0 for Pocket PC

### Memory

- 20 Mb free memory

### Display

- Color display with 240x320 resolution

### Network

- Wireless LAN or high speed GSM connection (GPRS, HSCSD, CDMA or similar)

