

PRODUCT DESCRIPTION



Rosetta-Lt™ Data Translator



This document contains the following product information for the Rosetta-Lt™ Data Translator:

- **Frequently Asked Questions**
- **Key Benefits**
- **Sample Printouts**
- **Product Drawings**

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Rosetta-Lt™

Frequently Asked Questions

What is Rosetta?

Like the famed “Rosetta Stone”, Rosetta is a translation device. Its purpose is to provide a simple, fast and reliable means to acquire data from a device and “translate” it so that it can be communicated over a variety of means, such as 2-way Radio, cellular or landline telephone.

The first implementation of Rosetta – Rosetta-Lt, addresses EMS applications, specifically for communicating ECG information from monitor/defibrillators over radio/phone communications systems. It allows a paramedic to put a 12-Lead printout in the hands of a physician quickly and easily!

What does the Rosetta “System” consist of?

The Rosetta “System” consists of two elements:

- Rosetta-Lt in the field (transmit end), and
- Rosetta-Rx or CAREpoint EMS workstation at the hospital (receive end).

In the field, the Rosetta-Lt acquires information from the monitor (12-lead, summary, etc.), translates it, and outputs the translated signal to the communications means for transmission. It is an extremely compact unit, which fits in a pocket on the monitor’s carrying case.

At the hospital, the Rosetta-Rx or CAREpoint EMS workstation receives information sent from the Rosetta-Lt and translates it and prints it on a common laser printer. The Rosetta-Rx is a small stand-alone unit while the CAREpoint EMS workstation is a full function Communications/Information/Documentation workstation for all emergency department EMS activities.

Is a modem or a special radio or phone needed?

No, the Rosetta acts like a special kind of modem, one that will work over communications links where traditional modems will not work or are not practical. Best of all, Rosetta operates over the very same communications link that is used for voice communications between the medic and the physician, so there is no need to carry a separate cell phone or hang-up and call a different phone number.

What monitor/defibrillators is the Rosetta-Lt compatible with?

- Single Lead ECG:
 - Any monitor/defibrillator with standard 1-Volt/mVolt output
- 12-Lead ECG/Summary Data:
 - Medtronic/Physio Control LifePak-12
 - ZOLL M Series (software version 38.50 and later)
 - ZOLL E Series (software version 1.01 and later)

How does the Rosetta-Lt connect to the monitor?

The Rosetta-Lt connects to the monitor via a simple monitor patch cable. One end of the cable plugs into the Rosetta-Lt's *Monitor* connector and the other into the serial data/ECG output connector located on the monitor.

What does the Rosetta-Rx connect to at the hospital?

At the hospital, the stand-alone Rosetta-Rx connects to the telephone line or radio tie-line that is used for communications between the physician and paramedics via a standard RJ-11 telephone cord. A standard HP LaserJet printer is connected to the *Printer* jack on the Rosetta-Rx. In many cases, an existing ER printer can be shared.

If the hospital has a General Devices CAREpoint EMS workstation, no additional equipment is necessary, as CAREpoint can display, print and store Rosetta-Lt transmissions.

Contact General Devices for application specific information.

What do you have to do to get a 12-lead into the Rosetta-Lt?

No much. Just leave the Rosetta-Lt connected to the monitor and everything can be automatic¹. Just press start the 12 lead acquisition as you normally would, and at the conclusion of the acquisition, (either automatically or manually) send/transmit the 12-lead. Rosetta-Lt will automatically turn on², receive the data from the monitor and translate it, all in less than 1 minute! The Rosetta-Lt even flashes an LED and plays confirmation “beeps”, so the medic can monitor the progress and know when the process is complete and the 12-Lead is stored.

- 1) With the transmission configuration settings configured properly.
- 2) With compatible monitors, otherwise press Start/Stop on Rosetta-Lt to turn first it on.

Once the 12-Lead is stored in the Rosetta-Lt, how do I transmit it?

Once a 12-Lead is stored in the Rosetta-Lt, simply connect it to the communications device (radio or phone) and press the “Start/Stop” button. That’s it! The medics can listen to the signal from the speaker to monitor the progress of the transmission. Transmissions can be stopped or restarted using this same button.

How does the Rosetta-Lt connect to the phone or radio?

Connection of the Rosetta-Lt to the communications device (2-way radio, phone or cell phone) can be done one of two ways:

- Direct Connection – Connecting the *Radio/Phone* jack of the Rosetta-Lt to the communications device with an appropriate Radio/Phone patch cable (i.e. to the headset or mic. jack on a cell phone or walkie-talkie (contact General Devices for application specific information), or
- Acoustic Coupling - Holding the mouthpiece (microphone) of the communications device up to the Rosetta-Lt's speaker.

What if the patient (and the monitor) is not near the phone/radio?

No problem. After the Rosetta-Lt has received the 12 lead, simply unplug the Rosetta-Lt from the monitor patch cable and bring it to where the communications are! The Rosetta-Lt operates on an internal 9V battery.

Does the Physician have to do anything to receive the 12-lead?

No. Operation is fully automatic. Just review the printout (or the display for CAREpoint) and confer with the medics. In fact, the Rosetta printout has been made to be virtually identical to the monitor's printout. The additional copies may be printed and a filter feature can be used to reduce noise if necessary.

How long does a Rosetta-Lt transmission take?

Not long. Actual "on-air" transmission time is typically just over 1 minute. This is important because it minimizes the "transmit" time in a radio system as well as the amount of time during which the paramedics cannot speak with the physician. Once the data is received at the hospital receiver, it is translated in about 10 seconds and then displayed/printed.

What is the integrity of the data?

Rosetta-Lt transmissions are diagnostic quality and utilize proven, robust technologies. In order to get through voice systems such as 2-way radio with "low or no" data capability, the "Lt" version of Rosetta provides analog transmissions similar to traditional single lead telemetry, which are not 100% loss-less*. In most cases, communication will be virtually noise free, with any artifact or missing data, and clearly identifiable to the user.

* Performance on some digital only radio/cellular systems may be greatly diminished

How many 12-Leads will the rosetta-Lt hold and for how long?

The Rosetta-Lt stores only one complete 12-Lead at a time. If a second 12-Lead is acquired, it will replace the previous one. A stored 12-Lead is erased when the Rosetta-Lt turns off.

How do you turn the Rosetta-Lt off?

The Rosetta-Lt turns off automatically. The Rosetta-Lt stays in the off mode unless it is transmitting/receiving or a 12-Lead is stored. While connected to a LP 12 monitor with a 12-Lead is stored, the Rosetta-Lt will stay on as long as the LP-12 is on. If the LP-12 is off or disconnected, or for other monitors, Rosetta-Lt will automatically turn off after 20 seconds of no use. The Rosetta-Lt can be manually turned off, by pressing the Start/Stop button for 5 seconds and erasing the 12 lead.

Can the Rosetta-Lt transmit traditional Single-Lead ECGs?

Yes. The Rosetta will modulate single-lead ECGs (i.e. Lead II) from the monitors*, in the industry standard format for sending to a CAREpoint EMS workstation, Rosetta-Rx, GEMS 2000 Console or other compatible EMS console. Just press the Start/Stop button (with no 12-Lead stored) while connected to the monitor, and the Rosetta-Lt will output a 20 second single-lead strip that can be transmitted in the same manner as the 12-Lead. Single lead transmissions are “real time” and are not stored.

* Monitors equipped with a 1 Volt output and the appropriate monitor patch cable.

Can you tell what the status of the Rosetta-Lt is by looking at it?

Yes. The Rosetta-Lt has two LED status indicators:

- POWER
 - Green – On, running on monitor power
 - Red – On, running on 9V battery, flashing indicates low battery
 - Off – Power is off
- Tx/Rx
 - Flashing Green - Receiving data from LP-12
 - Solid Green - 12-Lead stored
 - Flashing Red – Transmitting 12-Lead data
 - Flashing Yellow – Transmitting Single-Lead ECG
 - Off – Nothing stored, no activity

What type of Laser Printer is needed for the Rosetta-Rx at the Hospital?

The Rosetta-Rx is compatible with standard laser printers that have a parallel port connector and use the HP-GL and PCL formats, such as the HP LaserJet series. In many cases, an existing compatible printer in the ER may be shared.

Rosetta™ KEY BENEFITS

EXTENDS CAPABILITY OF MONITOR	Rosetta's robust transmission scheme permits the sending of 12-Leads reports using a customer's existing 2-way radio system. This is particularly important in EMS services (rural or large urban areas) that either rely on radio and do not want to use cellular. Rosetta also works on landline and cellular telephones without the need for a modem card.
LOW COST SOLUTION FOR THE HOSPITAL	The Rosetta-Rx receiving station is a low cost alternative for those who only want a print out of the 12-Lead report or may not have the space, budget or need for a PC based system. The printout quality is much better than fax and is virtually identical to that of the monitor.
“PORTABLE” 12-LEAD STORAGE	Rosetta-Lt's 12-Lead storage capability means it can be disconnected from the monitor and brought to the phone or radio, eliminating the need to move the patient or monitor.
SHORT TRANSMISSION TIME	Rosetta's "on-air" transmission time is just over one minute. This improves productivity, saves "air" time in a phone or radio system and minimizes the time during which paramedics cannot talk with the physician at the hospital.
REQUIRES ONLY ONE CALL	Since Rosetta utilizes the same communication means the customer uses for voice conversations with the Physician, there is no need to hang-up and dial another number or use a separate phone or radio.
ONE BUTTON OPERATION	With only 1 button, Rosetta-Lt is extremely simple to use, as it is mostly automated, in fact pressing just the monitor's acquisition button starts the operation. This level of simplicity improves user acceptance and assurance of fast and successful transmissions.
ACOUSTIC COUPLE OR DIRECT CONNECT	Rosetta-Lt provides for easy connection to most any communications means. No need to disconnect the patient's home telephone.
SMALL, LIGHT AND DURABLE	The Rosetta-Lt is compact and weighs only 4oz, yet is very rugged. It can easily be stowed in a pocket on the monitor's carrying bag while remaining connected.
TRANSMITS SINGLE LEAD ECGS	The Rosetta-Lt also acts as a modulator for single lead ECGs, allowing EMS services to carry only one device to meet their regulations.
COMPATIBLE WITH CAREpoint	Rosetta-Rx features are standard with the telemetry option on the CAREpoint EMS workstation.

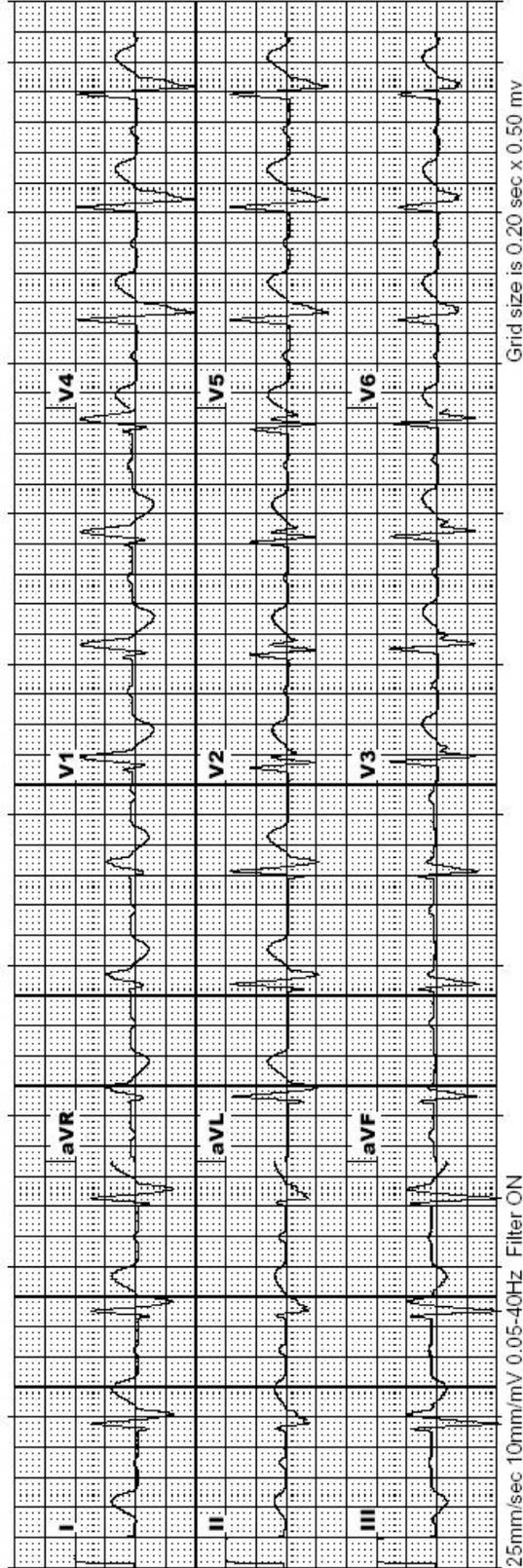
**General Devices CAREpoint
ZOLL M Series Defibrillator 12-Lead Report
2006-01-17 15:08:07**

PATIENT NAME: JOHN DOE
 PATIENT ID: 155062724
 PATIENT AGE: 60
 PATIENT SEX: M

Vent Rate: 80
 P Duration: 76 ms
 PR Interval: 246 ms
 QRS Duration: 146 ms
 QT/QTc: 380/438 ms
 P-R-T Axis: 52 -62 -4

DEVICE ID: 0000000000
 RECORDED: 12:45:53 04 OCT 05

- **Unconfirmed****
- Normal sinus rhythm with 1st degree AV block
 - Right bundle branch block
 - Left anterior fascicular block
- *** Bifascicular block *****
- Possible Lateral infarct , age undetermined
 - Abnormal ECG

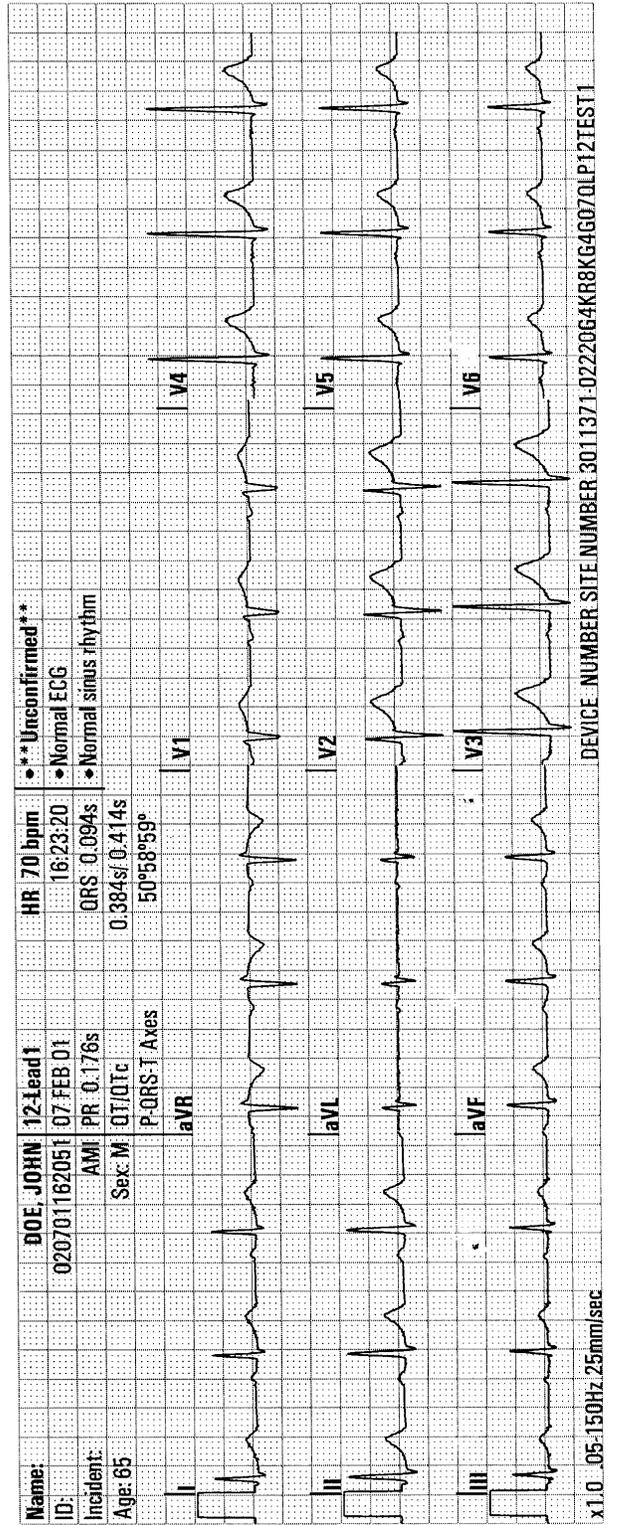


Sample Rosetta 12-Lead Printout (ZOLL) (not to scale)

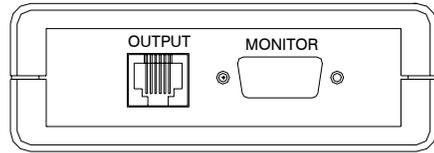
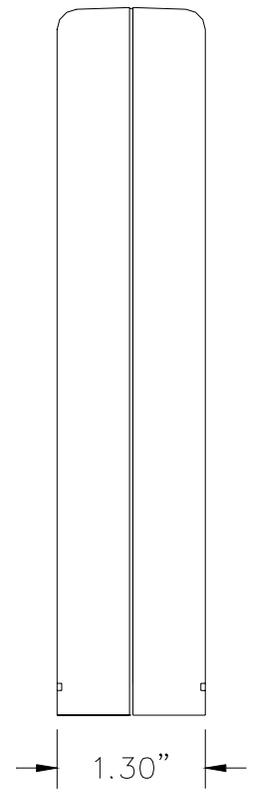
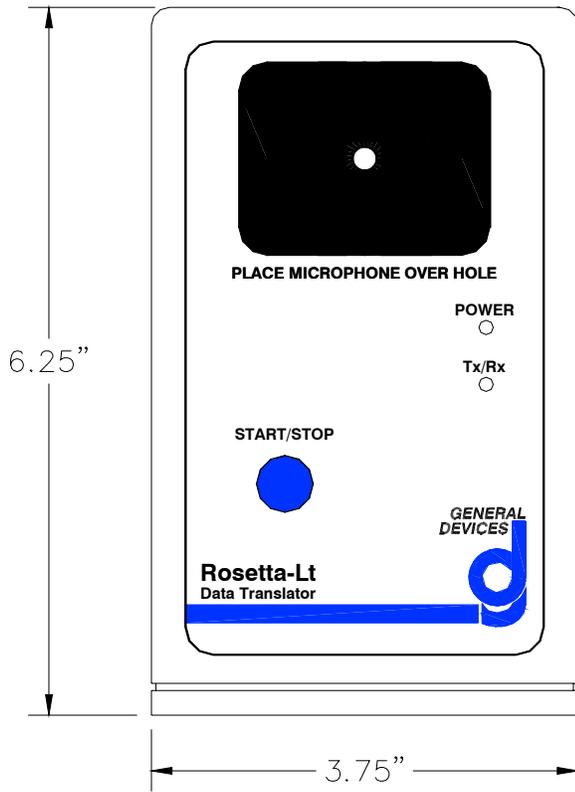
General Devices Rosetta transmission
 Physio-Control LIFEPAK12 defibrillator/monitor series

Organization: Phone #: Date: Time:

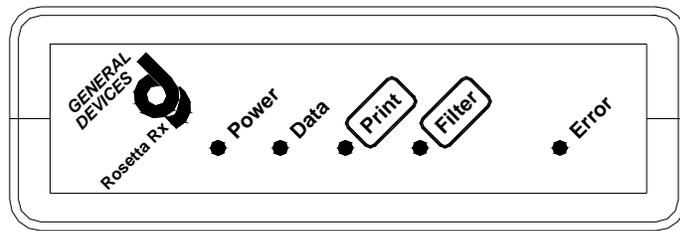
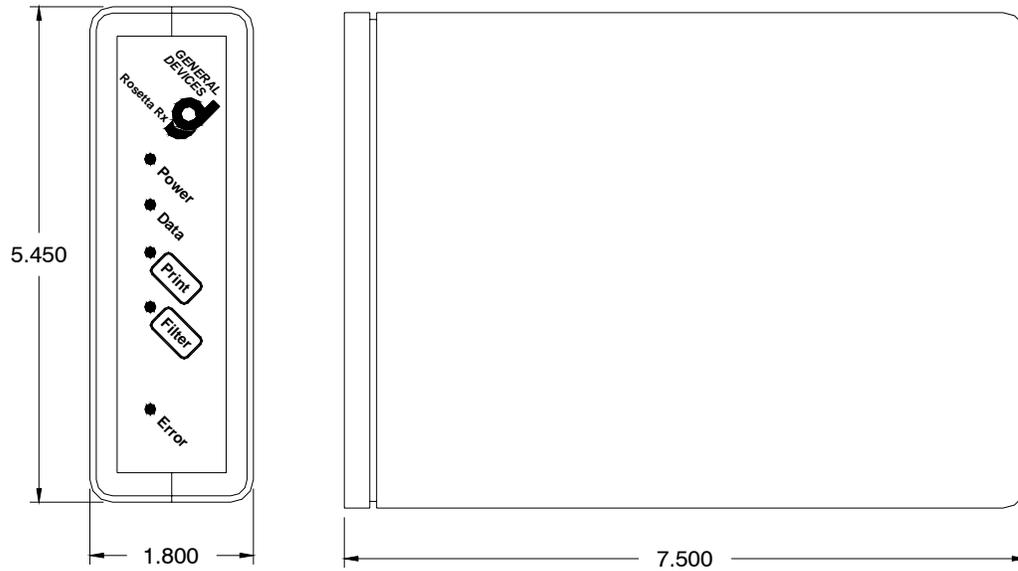
Received ECG.
 Always use the printed grid lines when assessing ECG's.



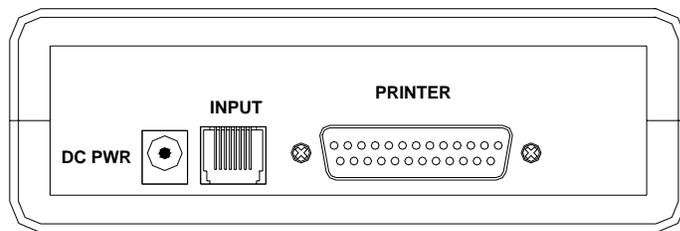
Sample Rosetta 12-Lead Printout (Medtronic) (not to scale)



Rosetta-Lt



FRONT PANEL



REAR PANEL

Rosetta-Rx (Stand-Alone)