

Real-Time LV Electrogram Display and Printing













SUMMARY

Real-time left ventricular (LV) electrograms can be useful in assessing LV lead performance and can provide a left-side ventricular view of cardiac events. This article lists the lead configurations in which real-time LV electrograms are available and the steps required to display and print them.

Real-Time Left Ventricular (LV) Electrograms

Real-time LV electrograms can be used to assess LV lead performance and to assist in optimizing programmable parameters such as AV Delay and LV Offset. Table 1 lists all programmable LV Electrode Configuration and LV Sense Configuration combinations that support real-time LV electrograms for CRT-D and CRT-P device families.

Table 1. Configurations That Support Real-Time LV Electrograms

| Device Family | LV Electrode Configuration | LV Sense Configuration |
|---|----------------------------|--|
| COGNIS® | Dual |  LVtip»Can  LVtip»RVcoil ^c  LVring»Can  LVring»RVcoil ^c  LVtip»LVring |
| | Single |  LVtip»Can  LVtip»RVcoil ^c |
| LIVIAN® and CONTAK RENEWAL® (all models) ^a | Dual |  LVtip»LVring |
| CONTAK RENEWAL TR and TR 2 ^b | Dual |  LVtip»Can  LVring»Can  LVtip»LVring |
| | Single |  LVtip»Can |

a. Real-time LV electrograms are unavailable when the LV Electrode configuration is programmed to Single, or when the Dual Electrode LV Sense configuration is programmed LVtip»»RVcoil.
 b. Real-time LV electrograms are unavailable when the LV Sense configuration is programmed to LVtip»»RVring or LVring»»RVring.
 c. If a dedicated bipolar lead is used in the RV, the LV Sense Configuration utilizes the RVring rather than RVcoil.

CRM PRODUCTS REFERENCED

The following are trademarks of Cardiac Pacemakers, Inc., a Boston Scientific company: ZOOM LATITUDE and the device families in Table 1.

Products referenced herein may not be approved in all geographies. For comprehensive information on device operation, reference the appropriate product labeling.

CRT-D: Cardiac Resynchronization Therapy Defibrillator
 CRT-P: Cardiac Resynchronization Therapy Pacemaker
 ICD: Implantable Cardioverter Defibrillator

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LV Electrogram Display and Printing

When any of the lead configuration combinations listed in Table 1 are programmed in the device, the real-time LV electrogram channel and associated LV event markers will be available for display and/or printing via the ZOOM® LATITUDE® programmer.

- **To display the real-time LV electrogram channel (Figures 1 and 2):**

1. Select the desired electrogram channel.
2. Select the LV electrogram option from the drop-down menu. If the LV electrogram channel is not available to select, the device may not be programmed to a configuration that supports real-time LV electrograms (review information in Table 1).

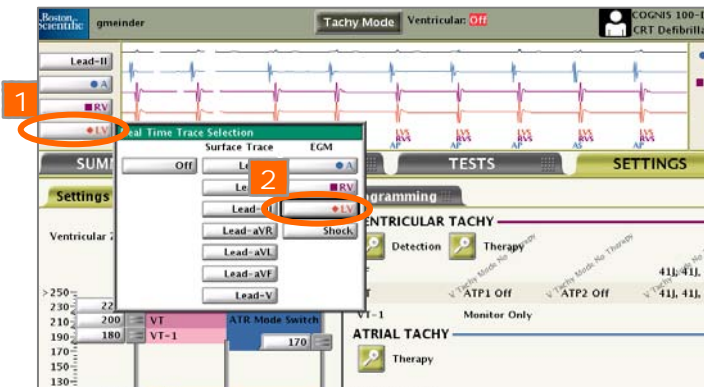


Figure 1. Real-time LV electrogram display on a COGNIS programmer screen.

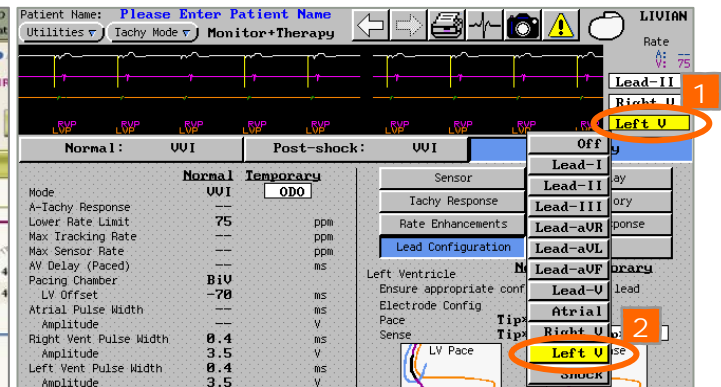


Figure 2. Real-time LV electrogram display on a LIVIAN programmer screen.

- **To print real-time electrograms:**

1. To begin printing, press the desired paper speed key on the programmer (i.e., 10, 25, 50, or 100 mm/sec).
2. To end printing, press the "0" paper speed key on the programmer.