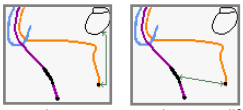
Real-Time LV Electrogram Display and Printing

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.

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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).

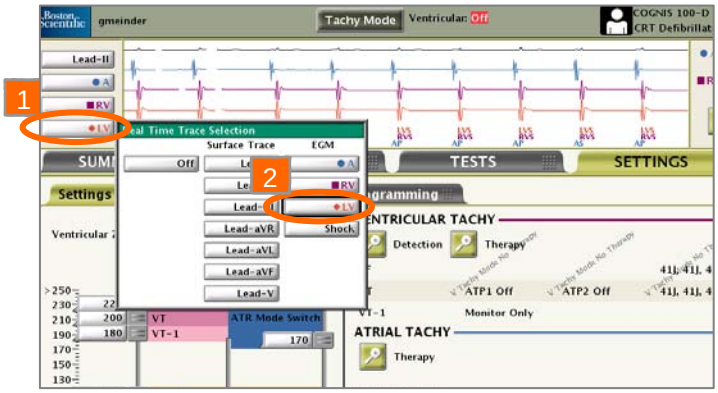

Figure 1. Real-time LV electrogram display on a COGNIS programmer screen.

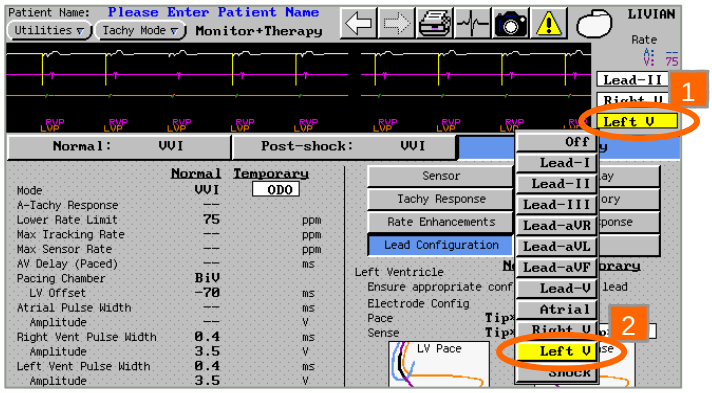

Figure 2. Real-time LV electrogram display on a LIVIAN programmer screen.

- **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.