

VRS and VRT Modules

The Venue Wideband receiver is a modular rack mount design for use with a wide variety of transmitters from Lectrosonics and other manufacturers. Designed for maximum versatility and performance, the wideband design offers the flexibility needed in today's changing and increasingly congested RF environments.

A Venue receiver is a "system" that consists of a master unit and up to six receiver modules. Two different types of receiver modules are available. The standard module (VRS) is an excellent choice for fixed installations where fairly clear RF spectrum is available. The tracking module (VRT) is a more costly alternative, but its tracking front-end makes it the better choice for use in congested RF environments. VRpanel software is included to simplify setup and monitoring.



Receiver Modules

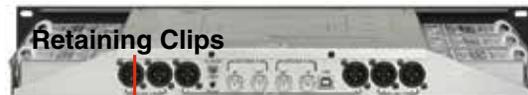
The VRS standard module has fixed front-end filters that cover its 25.5 MHz tuning range. The higher selectivity VRT module has a much narrower tracking front-end filters that retune as the frequency is changed to stay centered over the selected frequency.

The modules are a triple conversion, frequency synthesized design, controlled by the microprocessor in the host assembly. A common DSP in the host assembly is used for all six receiver modules to decode the received signals and restore the digital audio. Using a single DSP results in a significant reduction in cost per channel.



The host assembly will handle up to six receiver modules via multi-pin connectors on the side of the main housing. The modules are held in place with snap-in retaining clips. The clips hold the modules firmly but are easy to remove without tools to make needed changes.

Hardware Installation



VRS and VRT receiver modules can be mixed in the same chassis. For ratio diversity operation, both modules in the pair must be on the same frequency block and positioned in the assembly in keeping with the OPTI-BLEND labeling on top of the chassis housing.

All modules must be within the frequency passband of the host assembly. Frequency blocks are marked on the receiver module and chassis housings.

Installing Receiver Modules

1. Turn the power off.
2. The receiver modules interface with the main assembly through multi-pin connectors on either side of the chassis. Insert the module straight down and then slide it toward the main housing to insert the connector pins. The module should sit flush against the side of the housing.
Caution: Make sure the connectors align correctly. Do not force the module onto the tab. Excessive force may damage the connectors.
3. Align the ridge on the retaining clip with the slot in the chassis and press the clip downward until the ridge snaps into the slot in the side panel.

Removing Receiver Modules

1. Turn the power off.
2. Remove the retaining clip by pressing on it sideways to release it from the slot in the side panel. Then pull upward to remove it.
3. Pull outward on the module to release the connector and then lift it upward out of the chassis. Holes in the underside of the chassis allow you to grip the module on the top and bottom.

