

Frontier Electronic Systems relies on video simulation for testing our deliverable radar video distribution products. These simulation capabilities are implemented in our own hardware and software products that can now be used as the building blocks of a customized simulation unit.

Simulation Applications

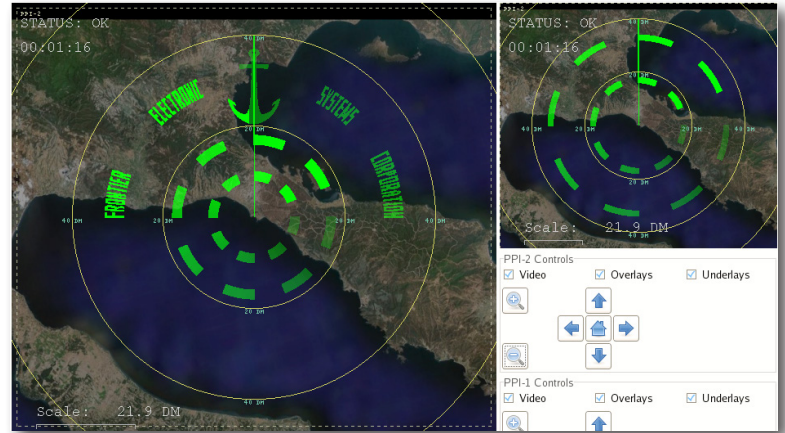
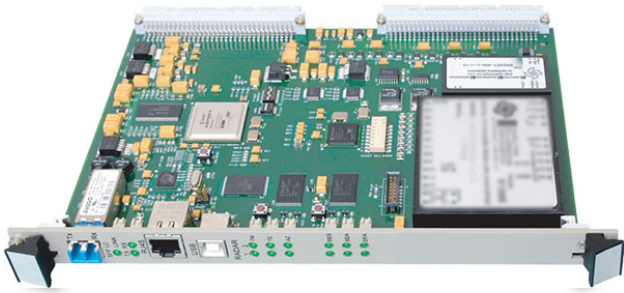
- Integration Testing
- Installation Testing
- Unit Hardware Testing
- Maintenance Training
- Tactical Training

LRADDS Simulator

The LRADDS Simulator is Linux-based software, which is capable of supplying simulated LRADDS video data for testing equipment in environments where no radar signals exist, such as training facilities. LRADDS Simulator lets you interact with the digital output during training scenarios.

Radar Video Simulator Module

Our Radar Video Simulator Module is a single-slot, 6U VME card capable of supplying simulated analog radar signals for testing equipment in environments where no radar signals exist, such as training facilities. Its VME form factor allows for easy integration with our Radar Interface Modules (RIM), the heart of our digital LAN Radar Data Distribution System (LRADDS).



Radar Video Simulator Features

- Configurable to simulate two (2) videos per channel
- Two (2) channels of any one of the following signals:
 - Resolver
 - Differential ACP/ARP (4096 and 8192 pps)
 - Single-Ended ACP/ARP (4096 pps)
- Radar and video parameters are set up via text file and loaded to the RSIM board over gigabit Ethernet LAN
- Adjustable pulse width for ACP/ARP, TM, and TE
- Easy to customize radar targets to any azimuth range and amplitude
- Supports video up to 20 MHz bandwidth
- Supports up to 10 range elements per dwell
- Video amplitude is scalable through 16 independent levels from 0 to 5 volts
- Integration with unit hardware testing



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