

# ***ECM RECEIVER 1854***

**SRC's ECM Receiver 1854 is a key component of the Threat Radar Emitter Simulator (TRES), used to train Navy pilots to identify and react to critical SAM threats**

As a nationally recognized developer of electronic systems for the Department of Defense and intelligence community, SRC, Inc., formerly Syracuse Research Corporation, strives to redefine possible from prototype to production to support. Our unique solutions in advanced radar, electronic warfare and communication systems help keep our nation safe and strong. We develop ground-, air-, sea- and space-based sensor systems that support a wide range of command, control, communications, computers, intelligence, surveillance and reconnaissance, and EW applications.

Leveraging our work in electronic warfare, we develop receivers that process radar returns for existing threat simulators that characterize and evaluate the effectiveness of countermeasures used by target aircraft. We have a long history of electronic countermeasures and counter-countermeasures analysis and simulation.

The ECM Receiver 1854, developed by SRC, is a multi-configurable, self-contained system that provides automatic detection, discrimination and measurement of electronic countermeasures signals combined with monopulse tracking capability to more closely model the real SAM Threat.



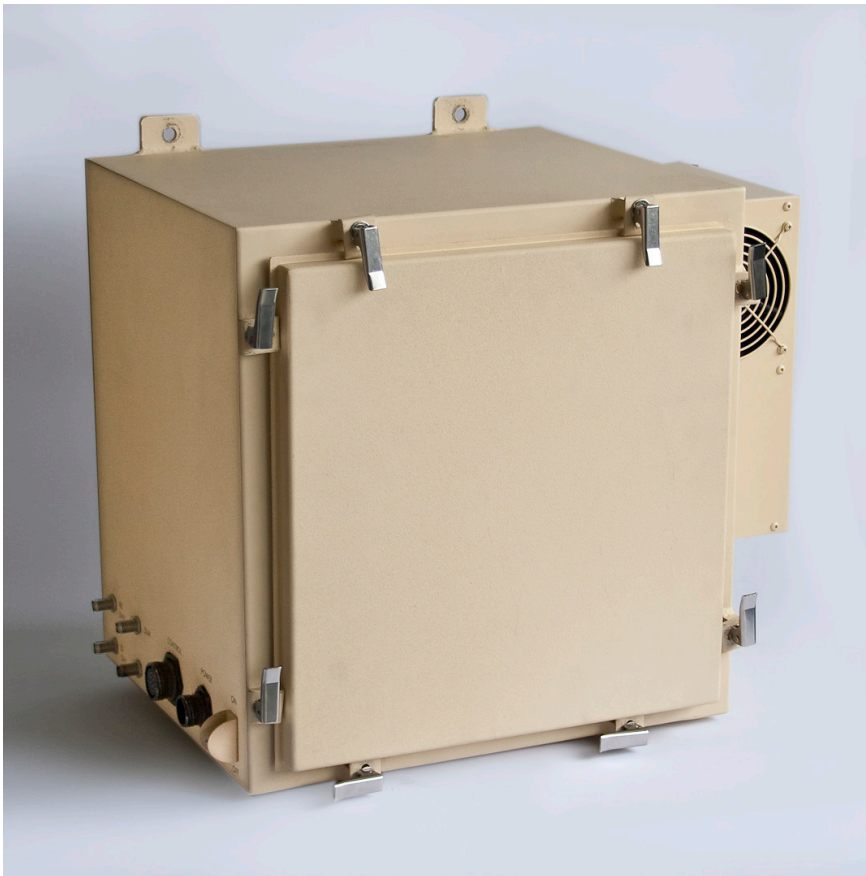
***THE TRES ECM RECEIVER 1854  
REDEFINES VERSATILITY IN  
TRES SYSTEMS***



## ECM RECEIVER 1854

### SPECIFICATIONS

- RF Coverage: From 6.9 to 17.0 GHz depending on configuration
- Interfaces: Ethernet
- Instantaneous signal bandwidth: Up to 1.6 MHz, programmable
- RF tuning increments: 100 kHz
- System size: 22 x 19 x 16 in
- System weight: 50 lb
- Operating environment:
  - -20° to 50° C operational
  - -40° to +65° C non-operational,
  - NEMA 4X - compliant enclosure
- Power consumption: 205 W



### FEATURES

- Monitors the threat radar's radio frequency environment to detect and measure the jamming signals while tracking the skin return
- Multiple electronic counter-countermeasures techniques implemented to simulate threat fidelity
- Three channel monitoring: Sum, azimuth and elevation delta beams
- Variants include radio frequency monopulse tracking capability in three bands – C/X/Ku
- User programmable and configurable via Ethernet
- Flexible field reprogrammable digital signal processor design using gate array-based hardware
- Doppler or non-coherent processing
- Digital log video output
- Automatically monitors and tunes to transmitter frequency
- Built-in test provides go/no-go status and automatic fault isolation
- Ruggedized, all-weather enclosure for coastal applications; shock and vibration resistant



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