



COMPACT TRACKING RADAR (CTR-37250X)

The Compact Tracking Radar (CTR) is a X-Band 3-channel monopulse tracking radar designed to be installed on existing electro-optical tracking mounts similar to the KTM and MPS-2000/3000 series mounts.

CTR-37250X

The CTR not only provides a single station TSPI solution for optical mounts but provides significant enhancements in mission support capability. Enhancements, such as greater range coverage, tracking in poor visibility and provision of Doppler data (Coherent-On-Receive) on one or multiple targets in the beam will increase the versatility, capability, and usefulness of your optical platform and range instrumentation capabilities.

Accuracy (for a 12 dB or greater signal-to-noise target excluding the effects of glint, scintillation, multipath and target induced errors).

Angles (Azimuth and Elevation): ≤ 0.25 mil 1 SIGMA
Range: < 3 meter 1SIGMA.

Maximum Tracking Range (Skin) on a 1m^2 target @ 12 dB S/N in 1.0 μsec pulse width: 43 Kilometers, excluding atmospheric attenuation.

A-Scope:

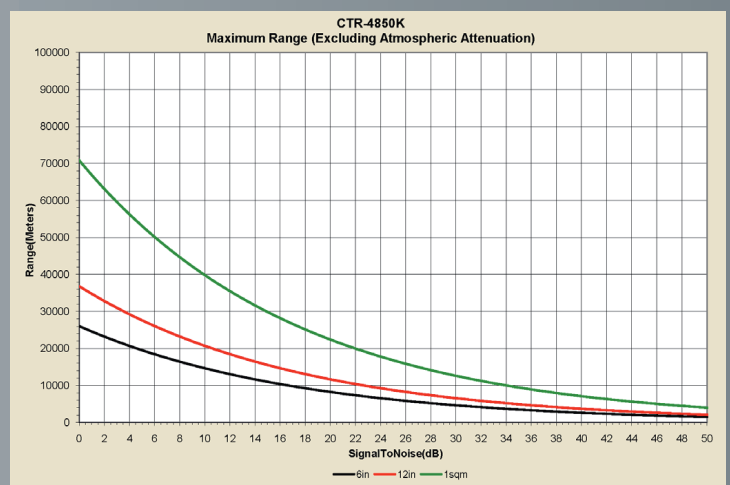
Type: Color A-Scope display on standard RGB monitor Composite video output for recording on a standard VCR.

Range Traces: 4 range traces, two full PRF and two moving expanded traces.

Alphanumeric Overlay: 4 lines of 28 characters each for programmed alphanumeric presentation.

KEY FEATURES

- Radar angle/range solution for your OTM
- Coherent Processing
- Compact Design
- Remote Controlled



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TYPICAL SYSTEM CONFIGURATION

- Angle Precision: 0.25 MII 1SIGMA
- Range Precision: 3 meters 1SIGMA
- Max Range: ≥ 300 km*
- Frequency 8.5 to 9.6 GHz
- Transmitter Power: 100 kilowatts peak at output of magnetron
- Antenna Size: 1.0 meter
- Antenna Beamwidth: 2.3 degrees
- PRF Selectable: 160, 320, 640, 1280 (143, 286, 572, 1144)
- Pulse Width Selectable: 0.25, 0.50, 1.0 microseconds
- Clutter Rejection: 30dB

*Subject to export limitations

Integrating the CTR modification involves installing four major elements into the existing system:

- Antenna: Monopulse, cassegrain fed, approximate 1.0 meter diameter
- Transmitter/Receiver Unit (T/R Unit): Incorporates the transmitter, microwave receiver and local oscillator synthesizer into a single environmental, controlled chassis.
- Radar Signal Processor: Provides all IF receiver and range tracking functions within a single 19-inch rack mounted VME enclosure.
- Operator Console: Consists of an industrial grade computer, flat panel touchscreen, and joystick mounted into a single 19" rack mountable chassis. (May be remotely located over extended distances)

