CALLISTO -
Radar Pulse Software Analysis

The Callisto Radar Pulse Analysis Software processes, filters, and analyses Radar Pulse Descriptor Words (PDWs) so they can be visualised easily and quickly. Callisto can be integrated with Teledyne Phobos R-ESM and digital receivers. PDWs from third-party receivers can also be imported into Callisto for analysis.

RADAR · SYSTEMS · ANALYSIS · VISUALISATION

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Callisto's comprehensive feature set divides into the following sections:

PDW Data Format Support
- Native Files (Teledyne family of support receivers only)
- Third-party PDW Data Format Support (via CSV or XML files)

PDW Filtering
- Frequency & Pulse Width domain filtering to ease analysis of dense environments
- Inside/Outside removal of PDWs from complex / sensitive datasets

Data Visualisations
- User definable 2D & 3D displays with any parameter on any axis
- Polar display provides spatial awareness from data with an AOA component
- Waterfall display provides real-time information for network-sourced PDWs

Single Emitter Analysis
- Easy selection of PDWs belonging to single emitter (mouse windowing)
- Automatic analysis of an emitter over time (ARP, PRI, etc.)
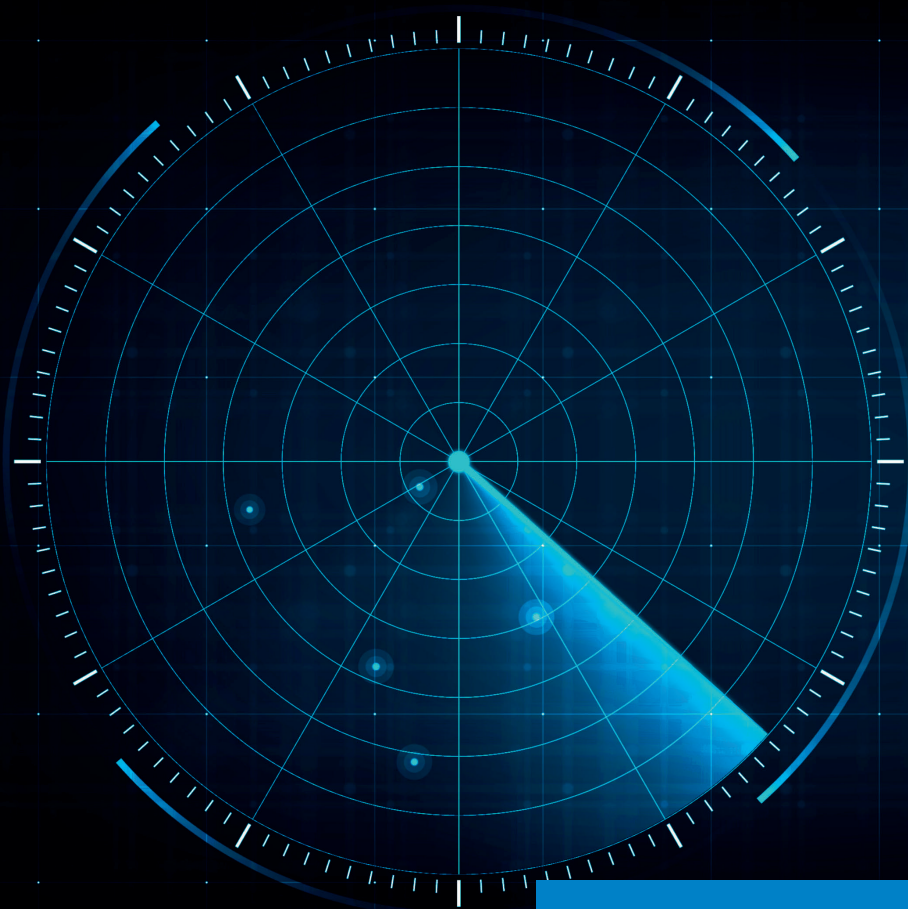- Easy selection of PRI/TDOA patterns to create an emitter definition

Audio Playback
- Playback of PDW data with audio relative to key parameters
- Support of multiple speaker configurations (e.g., Stereo, Surround, 5.1, 5.7)

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BENEFITS

Easy to use interface for radar deinterleaving and analysis ⭕

Isolate single illuminations from many individual emitters ⭕

Multiple user-configurable display modes ⭕

Compatible with multiple receiver types ⭕

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SYSTEM REQUIREMENTS

	Minimum	Recommended
Processor	Intel i5	Intel i7
Memory	4GB	8GB
Graphics Chipset	Intel HD3000	Nvidia GTX-550 or higher
Display Resolution	1366 x 768	1366 x 768
Operating System	Windows 7 (32-bit)	Windows 7/10
Ethernet	1 Gigabit (for live PDW streaming)	
Disk Space	50MB	

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