

# MSSR

## MONOPULSE SECONDARY SURVEILLANCE RADAR

- Developed in full compliance with ICAO and Eurocontrol
- Mode 1, 2, 3/A, C and Mode-S ELS/EHS
- Automatic system reconfiguration and switch-over
- Built-in data processing and suitable for combining for MSSR, PSR, ADS-B and MLAT
- Built-in track processor and output data formatter
- BITE for continuous monitoring of MSSR subsystems and non-radar equipment
- Diagnostic CMS to provide local and remote control of operation
- Archiving, playback and statistical analysis of surveillance data
- Cost-effective and low maintenance cost solution
- Remotely controlled SSR Mode-S monitor
- Built-in extended reception channel testing
- Transportable version available
- Tailored Spares, Maintenance & Upgrade Packages available



Easat is a leading supplier of advanced Mode S Monopulse Secondary Surveillance Radar (MSSR) systems for global Air Traffic Management applications.

Easat's latest generation of Mode-S MSSR has been designed to ensure that it is fully compliant with ICAO requirements and Eurocontrol standards. Easat MSSRs are intended for cooperative air traffic control surveillance in accordance with elementary and enhanced Mode-S specifications.

Easat's MSSR can be used either as a stand-alone system or integrated with PSR, ADS-B and M-LAT systems. In situations where MSSR is to be integrated with other surveillance systems, common content management and advanced tracking will ensure that combined targets, as well as process status and performance parameters, are displayed simultaneously.

The Easat MSSR system is highly flexible with open architecture which is easily adapted to meet customer requirements.

## Specifications\*

Minimum Range	0.25NM
Maximum Range	256NM
Height	66,000 ft
Elevation	0.3-45 deg
Repetition Frequency	50-250 Hz
Rotation Period	6 to 15 RPM
Maximum Number of Aircrafts per Scan	1,000
Maximum Number of Aircrafts In a 10° Sector	100
Azimuth	0.068 deg
Range Accuracy, Mode-S	15m
Range Accuracy, Mode AC	30m
Detection Probability	99%
Code Detection Probability	98%
Probability of Code Validation:	
Mode A/C, greater than	98%
Mode S, greater than	99%
Multiple Target Reports by Splits	0.1% From Total
False Reports, not more than	0.1% From Total
Probability of Combining MIOS MSSR Information with PSR	0.95
Aircraft Azimuth Information Delay, not more than	30 deg
Interrogation Modes	1, 2, 3/ A, C, S ELS/EHS All combinations
Availability	0.99998
Drive Type	Dual Redundant

## Easat MSSR Vertical Coverage\*

