



## MULTISCAN THREATTRACK™ WEATHER RADAR

# Get ahead of the storm with accurate threat avoidance

## Target what matters

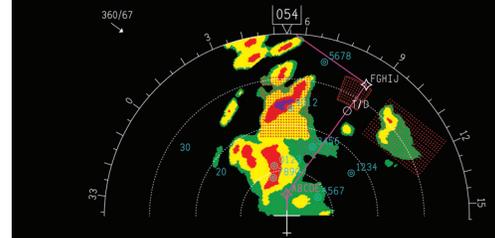
MultiScan ThreatTrack identifies and evaluates adverse weather conditions, presenting information automatically in a clear and intuitive display that aligns with standard operating procedures. Our cutting-edge threat detection technology enables flight crews to recognize hazards throughout all flight phases, minimizing unnecessary route changes and delays. A comprehensive flight path assessment is essential for aviation safety, ensuring a safer and more dependable travel experience for passengers.

### ADVANCED TRACK-WHILE-SCAN TECHNOLOGY

Our innovative track-while-scan technology can monitor up to 64 cells and detect threats as far as 320 nautical



miles away. MultiScan ThreatTrack performs intelligent vertical scans on each developing or rapidly growing convective cell, delivering essential information for making informed flight path decisions. By concentrating on vertical sweeps, our technology swiftly and accurately identifies threats, avoiding unnecessary scans of clear skies and eliminating the need for complex, inaccurate 3D display renderings.



### Safety Enhancing Technologies

- Core threat analysis display
- Mid-altitude associated threat
- Anvil top associated threat
- Predictive overflight
- Two-level turbulence
- Path attenuation compensation

### Operational Efficiencies

- Quiet, dark cockpit philosophy
- Track-while-scan technology
- Automatic temperature-base gain
- Geographical weather correlation

## QUIET, DARK COCKPIT PHILOSOPHY

MultiScan ThreatTrack utilizes threat technology grounded in our quiet, dark cockpit philosophy, which offers complete situational awareness at a glance. While MultiScan ThreatTrack monitors and tracks up to 64 vertical storm cells, only those posing a threat to the flight path are displayed to the crew, reducing workload and simplifying displays. Crews can switch to manual mode to analyze storms not shown automatically for a complete weather picture for both tactical (short ranges) and strategic weather (longer ranges).

## Our patented technologies set our radar apart

### INTUITIVE CORE AND ASSOCIATED THREAT ASSESSMENT

MultiScan ThreatTrack conducts assessments of imminent thunderstorm threats and identifies associated risks, such as lightning, hail and convective threat potential within and external to a thunderstorm core. The intuitive symbology display makes it easy to quickly grasp and verify threat to the aircraft.

### PREDICTIVE OVERFLIGHT™ PROTECTION

Track-while-scan technology monitors cells up to 320 nautical miles away, while intelligent vertical scans concentrate on rapidly growing cells that might impact the flight path. Predictive OverFlight alerts pilots to potential clear-air turbulence (CAT) building from these developing cells by measuring growth rates, predicting bow-wave turbulence and indicating possible threats. This technology will allow users to reduce the numerous passenger injuries caused by CAT each year.

## PATH ATTENUATION COMPENSATION

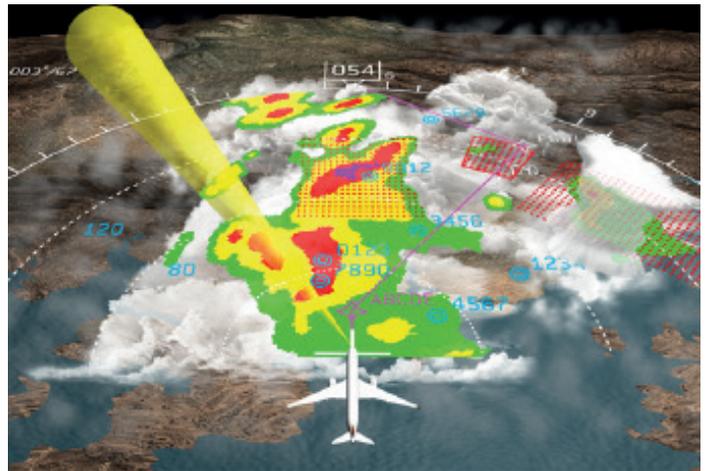
Our patented path attenuation compensation technology has been integrated into our weather radar functionality for over two decades. Detecting what lies behind a large, dense storm can be challenging. If a cloud is heavily saturated with moisture, the radar cannot penetrate it. The radar will notify the pilot of additional weather behind the visible cloud, advising caution.

## GEOGRAPHICAL CORRELATION AND AUTOMATIC TEMPERATURE BASE GAIN

Automatic gain adjustments enable compensation for varying thunderstorm reflectivity at different altitudes and global locations, regardless of the season. As the aircraft ascends, the radar system scans regions, such as the tops of thunderstorms, which are often glaciated and typically not undetected by conventional radar. MultiScan ThreatTrack technology compensates for reduced reflectivity, providing pilots with essential information they may otherwise miss without requiring intervention.

## HIGH-RELIABILITY TECHNOLOGY FROM A TRUSTED PARTNER

Global flight tests of MultiScan ThreatTrack have validated the performance of the threat detection concept in a wide range of weather conditions. For maximum performance worldwide, it uses a database of geographic and seasonal weather variations. Let us show you how MultiScan ThreatTrack can deliver operational efficiencies and safety enhancements to your fleet.



Specifications subject to change without notice.



### COLLINS AEROSPACE

+1.319.295.4085

avionicsmarketing@collins.com

collinsaerospace.com