### RDR-4000M

3D Weather Radar for the C-130 transport aircraft

**Safety**

**First Radar**
Certified to the FAA Enhanced Turbulence Minimum Operating Performance Standards (MOPS)
Advanced, forward-looking weather detection and avoidance capability
- Improved turbulence identification
- Detects hazards along flight path
- Look ahead function when maneuvering

**Value**

Lower Fuel Costs

>30% Weight Reduction Over Existing Military Radars

### Efficiency

Only Radar That Automatically Scans All of the Weather, All the Time

RDR-4000M features automated weather detection to display significant weather without requiring pilots to make tilt adjustments
- Reduces Pilot/Navigator Workload
- Improves Safety by Expanding Situational Awareness Time
- Field Tested and Combat Proven (C-17)

26% Improvement
In Weather Avoidance Decision-Making Ability to Detect and Reroute Around Storms Sooner (relative to previously available systems)
- Enhanced Strategic Maneuvering
- More Efficient and Quicker Flight Rerouting
- Reduces Delays, Turn Backs and Diversions

### Safety

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Advanced, forward-looking weather detection and avoidance capability
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50% Reduction In Turbulence Related Incidents
Based on In-Service Data, Compared to Aircraft Equipped with Conventional Radars
- Predictive Windshear Detection and Alerting
- Reduces Hazardous Weather False Alarms
- More Effective Routing and Rerouting Decisions

### Value

Lower Fuel Costs

>30% Weight Reduction Over Existing Military Radars

#### Reduced Maintenance Costs

+80% Increase
Mean Time Between Unscheduled Removal (MTBUR)
- Reduces Unit Removals
- Minimizes Spares
- Decreases Operational Delays

8000+ Hours
Mean Time Between Failure
System uses direct drive, DC brushless mechanical drive with coaxial rotary joints, and a solid-state transmitter design to improve operational uptime.