



LEONARDO Germany GmbH

METEOR 700S

Weather Radar





Technical Data

Mode	Doppler, Dual Polarization
Operating Frequency Range	2700 – 2900 MHz (S-Band)
Typical Operational Range/ Technical Range	400 km / 600 km
Maximum Doppler Velocity	± 214 m/s
System Phase Stability	$\leq 0.15^\circ$
Transmitter Type	Coaxial Magnetron with solid state, IGBT-switched modulator
Peak Power	850 KW
Noise Figure (Total Receiver)	≤ 2.0 dB

METEOR 700S Weather Radar

The METEOR 700S sets the benchmark in weather radar technology for Meteorological Services with special emphasis on long-range surveillance and extreme precipitation in tropical regions.

The METEOR 700S combines cutting-edge technologies with straight-forward and reliable implementation. It features an S-Band magnetron transmitter with a 2nd generation solid-state modulator, a digital receiver, a high-precision antenna and Rainbow® 7, the most up-to-date software package for meteorological users.

METEOR 700S Highlights

- High-end Doppler weather radar with unparalleled price-performance ratio
- Proven magnetron technology
- Graceful degradation modulator
- Wide dynamic range receiver, based on Dynrex dual-channel implementation
- Compliant with EU Radio Equipment Directive (RED) due to proprietary high-power filter technology
- Minimization of lifecycle costs due to high reliability
- Improved range resolution and scanning speed through multi-trip echo recovery
- S-Band advantage: Optimized for long-range surveillance under conditions of extreme precipitations

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