



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 | ≤ 0.15° |
| 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® 5, the most up-to-date software package for meteorological users.

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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