WR-MOBILE

Mobile version for ELDES WR-Class Weather Radar Systems

The climate change has led ELDES to engineer a further version for its Radar Systems, which can now be proposed not only as fixed installations, but also as mobile on trailer, opening a wider range of applications. With mobility, ELDES systems can be easily deployed for real-time weather observation during events in which the safety of operations and people is the first aspect to be taken into consideration; think for example to Sport Events or Leisure activities. For Civil Protection purposes they can be used for weather monitoring for temporary structures and emergency control installations. In general in all the situations in which a high-resolution observation, with the guarantee of an effective early-warning on a specific area, is required. Even if this area is already covered by Radar service, the increased resolution given by a local sensor, allows the right notice and the right level of information for a "mission-critical" approach. At the same time, the WR-Mobile can be a valid tool in the Research/University sector to carry out traveling study campaigns on a specific territory, or always, in the field of Civil Protection and Meteorological Observation, to follow (and track!) significant events. They can also be an alternative for the Radar coverage of territories without suitable infrastructures to host fixed installations, such as inaccessible areas, or in any case not reached by electricity or data connections.

The WR-Mobile solution is compliant with MIL standards for road and helicopter transportability and MIL tested for stress resistance. The possibility of being customized with highly reflective adhesives, retractable awning for operator protection and sturdy anchorages ensures safe operation in all environments, even with strong winds. The WR-Mobile was designed to house an independent power generator, but it is also equipped with sockets for a power and data connection to existing networks.
A step forward to change, designed today to face the climatic challenges of tomorrow.

Keypoints

1. **Provision for ELDES WR-Class weather radar systems installation**
2. **Quick deployment and start-up**
3. **MIL certified for transportation by road or by helicopter**
4. **Can be equipped with power generator, GPS and network connectivity**
5. **IP54 tested and equipped for use in severe weather conditions**

Quick deployment illustration:

1. Placement in the area of interest
2. Stabilization with extendable parking feet and possible anchoring in case of strong winds
3. Opening of the awning to protect operators
4. Opening of the "power generator" and "server display" compartments, switching on the system via power generator or with direct electrical connection, switching on of the internal and external LEDs and start-up

TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

Provision for ELDES WR-Class weather radar systems installation
Road and helicopter transportability in compliance with MIL-STD-209 K and MIL-STD-913 A standards
Stress resistance in compliance with MIL-STD-209 K and MIL-STD-913 A standards
IP54 equipment and radar compartment
Extendable parking feet with support bases, cable-stayed anchoring hooks for installation in environments with strong winds
Signage and instrumentation for operational displacement
Customizable with high UV resistance adhesives and / or reflectors according to customer requirements
Accessories supplied: mains and power cables (30 m), removable radome support system for maintenance activities

OPERATOR PROTECTION AND ASSISTANCE

Retractable awning for operator protection
Internal LED lighting
External LED for working area lighting
Instruments compartment (max 125 kg overall)
Services socket for powering accessory instrumentation (max 800 W)

OPERATIONAL RANGES

Operating temperature (with air conditioning): -40° C; +50° C
Max Wind Gust in operational configuration up to 60 m/s

ELECTRICAL AND CONNECTIVITY SPECIFICATIONS

Power supply 230 VAC 50 Hz or from independent generator (if installed)
100/1000 Mbps network connectivity with waterproof RJ45 connector, or 3G/4G modem router with automatic failover (if installed)
Integrated GPS receiver for data and system geolocation (if installed)

WEIGHTS AND DIMENSIONS

Support surface with extended parking feet: 2,708 x 2,439 m
Dimensions: 3.85 x 2 x 1.98 m (without radar system)
Total mass in running order max 1,100 kg (with standard generator and WR-25XP ELDES Radar system)

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WR-MOBILE

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