**Compact X-band Doppler Weather Radar**

Model WR110

At last, Performance, Transportability and Reliability within everyone’s reach!

**A weather Radar for all situations**

**Cities**
Local weather observation capabilities for optimal wastewater treatment efficiency, increased public safety and minimizing property loss through enhanced flood damage prevention control.

**Airports**
Observation and identification of approaching rainfall/snowfall around airports for improved traffic management and safety.

**Mountains**
Observation of rainfalls and their effect in mountainous areas allowing easier prediction of water flows for disaster prevention.

**Easy Installation**
- Very Compact and lightweight (1 m, 65 kg)
- No heavy equipment required
- Compatible with regular power outlet

**Reduced Operating Costs**
- Solid-State
  - Reliable, less maintenance, long life solid-state transmission device
  - Lower power consumption
- Radar status monitoring for optimized performance

**Transportability**
- Wide range of transportation choices
  - Pickup, Trailer, Small trucks...
- Heading sensor for azimuth adjustment*
- Vibration isolator for safe relocation and transport*
  - MIL-STD-810G Test Method 514.7 ANNEX C Category 4 Secured Cargo. Common carrier (US highway truck vibration exposure) Test1
- WR110 case for easy transportation*  
  *Option

**Large Radars (S/C-Band) supplement**

The WR110 can supplement, reinforce and fill-in areas global surveillance weather radars cannot reach.

*Example diagram of an efficient combination using WR110 X-Band Radar to detect local weather changes with high precision in lower elevation areas while large S/C band radars sweep higher elevations for longer range surveillance.

**Various software applications available**

**Visualization Application (Paid service)**
- Easy monitoring with our standard WR110 visualization software

**Various data format compatibilities**
- Various data formats used in major software packages, such as Vaisala IRIS Focus and Baron Lynx, are available

www.furuno.com
**Model Name** | **WR110**
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Antenna Polarization | Single polarization (Horizontal)
Operating Frequency | 9.4 GHz band
Pulse Width | 0.5 - 50 μs
Pulse Repetition Frequency (PRF) | up to 2,000 Hz
Beam Width | 2.7 degrees
Peak Output Power | 100 W
Vertical Scan Angle | -2 to 182 degrees (adjustable)
Antenna Rotation Speed | 0.5 – 10 rpm
Observation Range | 70 km max.
Scan Modes | PPI, Volume Scan, Sector PPI, Sector RHI
Output Parameters | Reflectivity factor Z_h (dBZ), Doppler velocity V (m/s),
| Doppler velocity width W (m/s), Rainfall intensity Rain (mm/h)
Data Correction | Distance and Rain attenuation, Doppler Velocity Folding
Doppler Speed | +/- 64 m/s
Unwanted Signal Removal | Suppression of clutter from land, Interference Rejection
Available Data Formats | CF/Radial, Opera Odim HDF5, CF-compliant NetCDF (rain only), Grib2 (rain only)
Operating Temperature Range | -10 to +50°C
Maximum Wind Survival Speed | 90 m/s
Power Supply | 100-240 VAC, Single phase, 50/60 Hz
Power Consumption | 350 W max., 200 W typ.

**Multi-radar configuration for higher precision and reduced blind areas**

- High precision measurements
- Reduced blind areas

**Multi-radar configuration for increased observation range**

It can also be carried through narrow spaces (800 mm) if disassembled.

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**Specifications subject to change without notice.**