

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.

Transportability

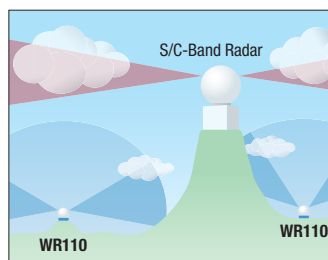


WR110 on a trailer (example)

- **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.

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

Various software applications available



Visualization Application (Paid service)

- Easy monitoring with our standard WR110 visualization software

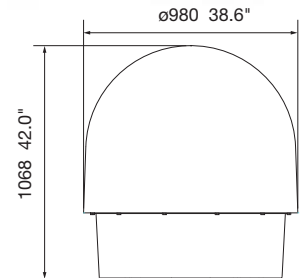
Various file formats available

- HDF5 (e.g. Vaisala IRIS Focus)
- NetCDF
- Others

Model Name	WR110
Antenna Polarization	Single polarization (Horizontal)
Operating Frequency	9.4 GHz band
Pulse Width	0.5 - 50 μ s
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 Zh (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 Odin 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.

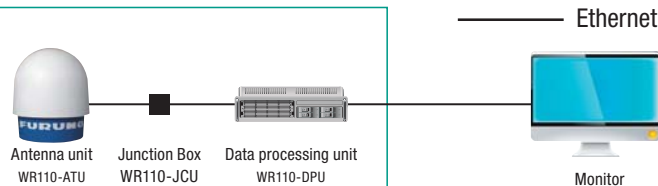


WR110
65 kg 143.3 lb



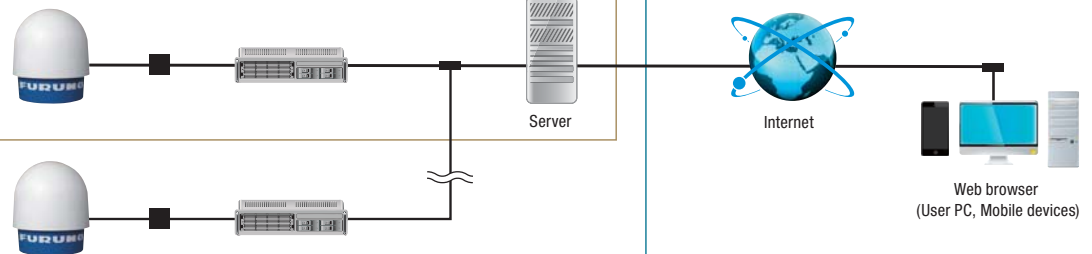
It can also be carried through narrow spaces (800 mm) if disassembled.

Standard configuration



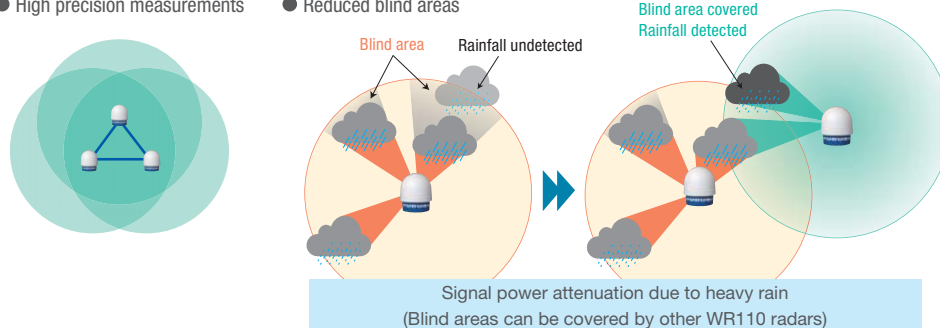
Multi-radar configuration

Server configuration

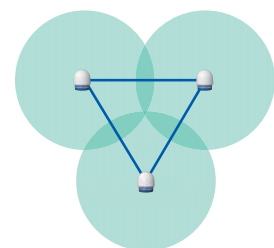


Multi-radar configuration for higher precision and reduced blind areas

- High precision measurements
- Reduced blind areas



Multi-radar configuration for increased observation range



Beware of similar products

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