

# Compact X-band Doppler Weather Radar

Model **WR110**

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

## A weather Radar for all situations

## Transportability



### 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.

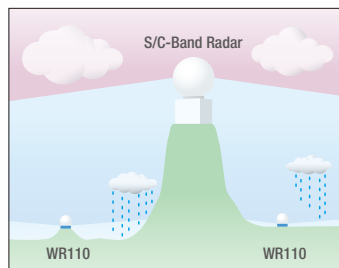


WR110 on a trailer (example)

- **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

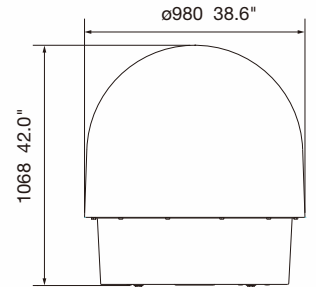
## Various data format compatibilities

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

<b>Model Name</b>	<b>WR110</b>
Antenna Polarization	Single polarization (Horizontal)
Operating Frequency	9.4 GHz band
Pulse Width	0.5 - 50 $\mu$ 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	Binary, CSV, JPEG, CF/Radial, Opera Odim HDF5, NEXRAD Level 2
Temperature Range	-10 to +50°C (Starting), -20 to +50°C (Operating)
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.

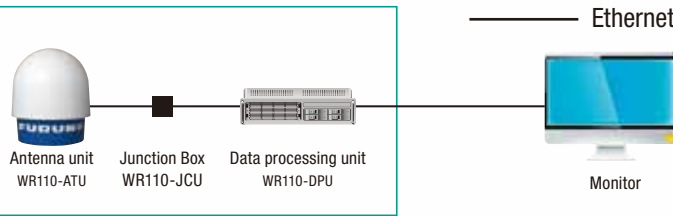


**WR110**  
65 kg 143.3 lb



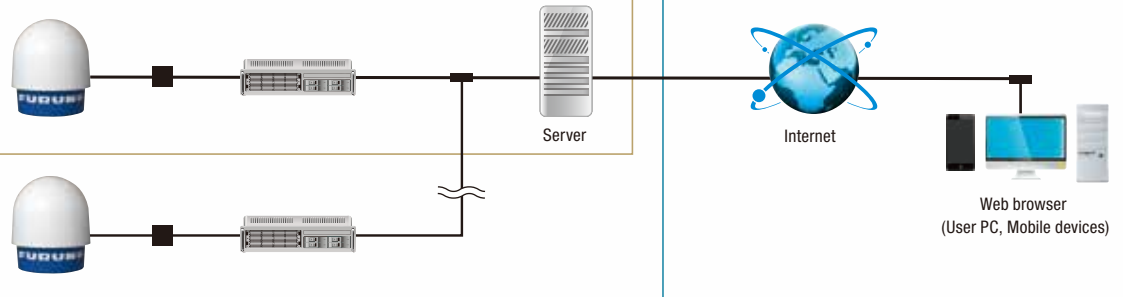
It can also be carried through narrow spaces (800 mm) if disassembled.

### Standard configuration



### Multi-radar configuration

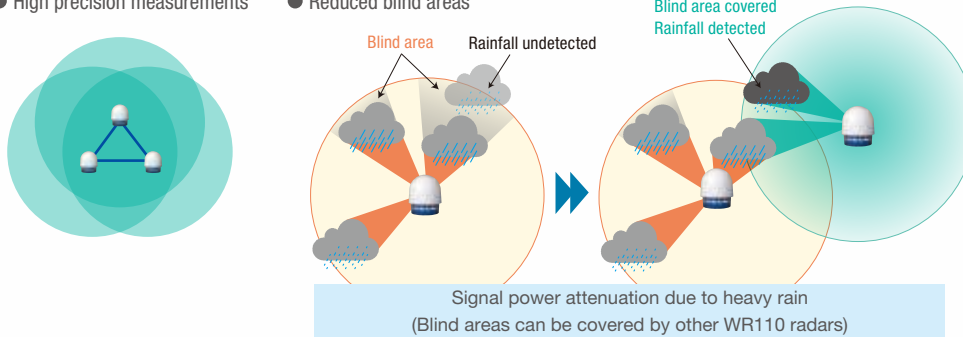
#### Server configuration



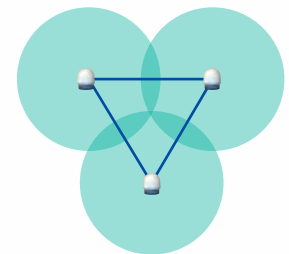
### Multi-radar configuration for higher precision and reduced blind areas

● High precision measurements

● Reduced blind areas



### Multi-radar configuration for increased observation range



Beware of similar products

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