

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.

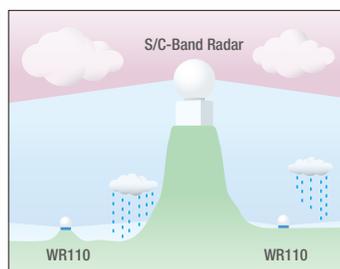


WR110 on a trailer (example)

- **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

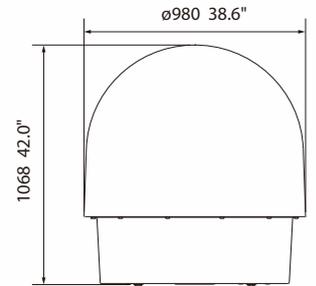
Various data format compatibilities

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

| | |
|---------------------------------|---|
| 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 Odium HDF5, CF-compliant NetCDF (rain only) Grib2 (rain only) |
| 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. |

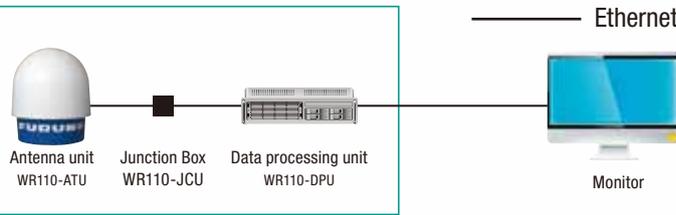


WR110
65 kg 143.3 lb



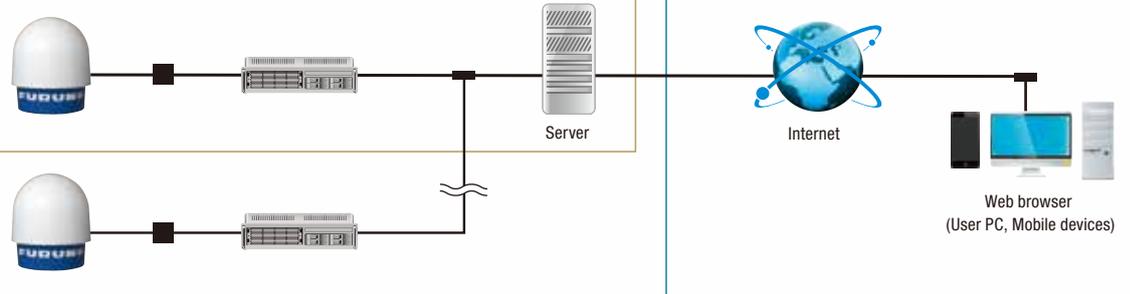
It can also be carried through narrow spaces (800 mm) if disassembled.

Standard configuration



Multi-radar configuration

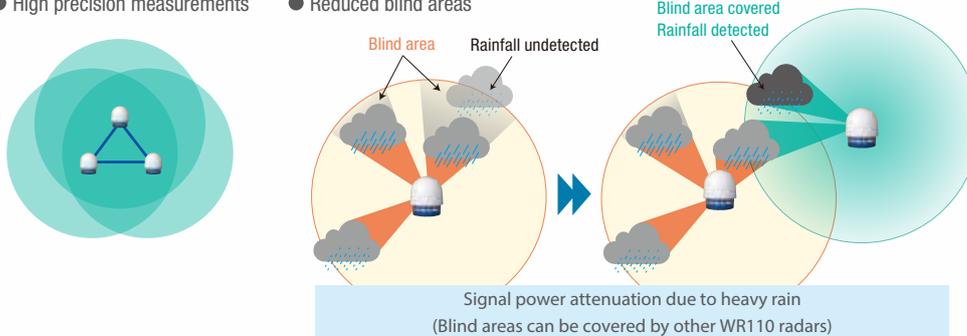
Server configuration



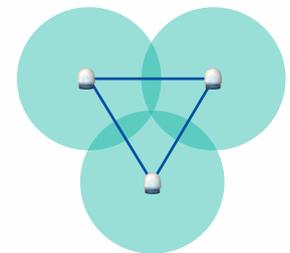
Multi-radar configuration for higher precision and reduced blind areas

● High precision measurements

● Reduced blind areas



Multi-radar configuration for increased observation range



Beware of similar products

All brand and product names are registered trademarks, trademarks or service marks of their respective holders.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

FURUNO ELECTRIC CO., LTD.
Japan | www.furuno.com
FURUNO U.S.A., INC.
U.S.A. | www.furunousa.com
FURUNO PANAMA S.A.
Republic of Panama | www.furuno.com.pa
FURUNO (UK) LIMITED
U.K. | www.furuno.co.uk
FURUNO NORGE A/S
Norway | www.furuno.no

FURUNO DANMARK A/S
Denmark | www.furuno.dk
FURUNO SVERIGE AB
Sweden | www.furuno.se
FURUNO FINLAND OY
Finland | www.furuno.fi
FURUNO POLSKA Sp. Z o.o.
Poland | www.furuno.pl
FURUNO DEUTSCHLAND GmbH
Germany | www.furuno.de

FURUNO FRANCE S.A.S.
France | www.furuno.fr
FURUNO ESPAÑA S.A.
Spain | www.furuno.es
FURUNO ITALIA S.R.L.
Italy | www.furuno.it
FURUNO HELLAS S.A.
Greece | www.furuno.gr
FURUNO (CYPRUS) LTD
Cyprus | www.furuno.com.cy

FURUNO EURUS LLC
Russian Federation | www.furuno.ru
FURUNO SHANGHAI CO., LTD.
China | www.furuno.com/cn
FURUNO CHINA CO., LTD.
Hong Kong | www.furuno.com/cn
FURUNO KOREA CO., LTD
Korea
FURUNO SINGAPORE
Singapore | www.furuno.sg

PT FURUNO ELECTRIC INDONESIA
Indonesia | www.furuno.id
FURUNO ELECTRIC (MALAYSIA) SND. BHD.
Malaysia | www.furuno.my