**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

- **Wide range of transportation choices**
  - Pickup, Trailer, Small truck...
- **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 Test)
- **WR110 case for easy transportation**

---

### 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

---

**www.furuno.com**
<table>
<thead>
<tr>
<th>Model Name</th>
<th>WR110</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antenna Polarization</td>
<td>Single polarization (Horizontal)</td>
</tr>
<tr>
<td>Operating Frequency</td>
<td>9.4 GHz band</td>
</tr>
<tr>
<td>Pulse Width</td>
<td>0.5 - 50 μs</td>
</tr>
<tr>
<td>Pulse Repetition Frequency (PRF)</td>
<td>up to 2,000 Hz</td>
</tr>
<tr>
<td>Beam Width</td>
<td>2.7 degrees</td>
</tr>
<tr>
<td>Peak Output Power</td>
<td>100 W</td>
</tr>
<tr>
<td>Vertical Scan Angle</td>
<td>-2 to 182 degrees (adjustable)</td>
</tr>
<tr>
<td>Antenna Rotation Speed</td>
<td>0.5 – 10 rpm</td>
</tr>
<tr>
<td>Observation Range</td>
<td>70 km max.</td>
</tr>
</tbody>
</table>

### 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 Odim HDF5, CF-compliant NetCDF (rain only), Grib2 (rain only)

### Operating Temperature Range
- -2 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
- Standard configuration
- Multi-radar configuration
- Server configuration
- Multi-radar configuration for higher precision and reduced blind areas
- Multi-radar configuration for increased observation range

### Specifications
- 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