Intersections
• Stop + Advance
  Stop Bar and Advance Detection with one Single Sensor

Arterials
• Forward +
  Traffic Counting and Classification

Enforcement
• Red Light Enforcement
• Speed Enforcement
  Stationary & Portable

ULTRA HIGH DEFINITION TRAFFIC RADAR
UMRR-OC

- 3D/UHD
- Multi-lane, multi-object Detection
- Replaces Loops, outperforms Video Detectors
- Detects moving and stopped Traffic
- Works in all Weather Conditions
- Maintenance-free
# UMRR-OC

**Type 42**

## APPLICATIONS
- Stop+Advance 3D/UHD
- Forward+ 3D/UHD
- Enforcement 3D/UHD Certified by METAS

## TECHNOLOGY
- 3D Object Tracking with UHD Resolution

## PERFORMANCE
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection Range (Passenger Car)</td>
<td>250 m (820 ft) / 170 m (557 ft)</td>
</tr>
<tr>
<td>Detection Range (Truck)</td>
<td>340 m (1150 ft) / 280 m (918 ft)</td>
</tr>
<tr>
<td>Maximum Detection Range</td>
<td>340 m (1150 ft)</td>
</tr>
<tr>
<td>Azimuth Field of View</td>
<td>-50 ° to +50 °</td>
</tr>
<tr>
<td>Number of Lanes</td>
<td>Up to 8</td>
</tr>
<tr>
<td>Range Accuracy</td>
<td>Typ. &lt; ±2.5 % or &lt; ±0.25 m (bigger of)</td>
</tr>
<tr>
<td>Speed Accuracy</td>
<td>Typ. &lt; ±0.28 m/s or ±1 % (bigger of)</td>
</tr>
<tr>
<td>Speed Interval</td>
<td>-320 to 320 km/h</td>
</tr>
<tr>
<td>Refresh Time</td>
<td>&lt;54 ms</td>
</tr>
<tr>
<td>Simultaneously Tracked Objects</td>
<td>Up to 256</td>
</tr>
</tbody>
</table>

## MECHANICAL
- Weight: 1290 g (45.5 oz)
- Dimensions: 212.6 x 154.6 x 38.15 mm
- Enclosure: Rugged, watertight casing (IP67)

## ENVIRONMENTAL
- Operation Temperature: -40 to 74 °C (-40 to +165 °F)
- Shock | Vibration: 100g rms | 14g rms

## GENERAL
- Frequency Band | EIRP: 24.0 to 24.25 GHz (K Band) | 20 dBm or 12.7 dBm in certain regions
- Mounting Height: 1.5 to 10 m (5 to 32.5 ft)
- Power Supply: 13 to 32 VDC | typ. 12 W
- Connector: 12 Pin plug Hirose LF10WBRB 12PD (Bayonet)
- Communication Interface: Ethernet, RS485, CAN Bus, Relays (Option)
- Compatible Interface Modules: NEMA Cabinet Cards (Relays, SDLC), HSDPA/UMTS/GPRS WiFi Modems
- Other Features: Real Time Clock, Flash Memory for >2 months storage

---

1. High Power Mode: 20 dBm
2. Low Power Mode: 12.7 dBm
3. Can be selected, certain Regions permit 12.7 dBm only.

All Product Specifications and Data in this Document are Subject to change without Notice. smartmicro disclaims any and all Liability.