InnovizPro offers outstanding performance and value for automotive, mapping, and other applications. It creates a dense 3D point cloud that enables exceptional perception.

InnovizPro offers high pixel density with uniform vertical field of view with no gaps, to detect targets from 20cm to an outstanding 600 meters maximum range! The sensor’s advanced design ensures reliability and resilience to sunlight and weather conditions.

**KEY PERFORMANCE METRICS**

<table>
<thead>
<tr>
<th>Metric</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angular Resolution (HxV)</td>
<td>0.2°x0.45°</td>
</tr>
<tr>
<td>Detection Range</td>
<td>20cm to 600m</td>
</tr>
<tr>
<td>Field of View (HxV)</td>
<td>73°x20°</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>10 FPS</td>
</tr>
<tr>
<td>Ingress Protection</td>
<td>IP67</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>73x66x165mm</td>
</tr>
</tbody>
</table>

**UNIQUE FEATURES**

- Superior detection at extremely close and long distances
- No Gaps Between Pixels
- Equally Distributed vFOV
- Resilient to Sunlight & Weather Conditions

**MARKET APPLICATIONS**

- Shuttles
- Smart Cities
- Mapping
- UAVs
- Security
- Industrial
## OPTICAL PERFORMANCE

<table>
<thead>
<tr>
<th></th>
<th>@10% reflectivity</th>
<th>@50% reflectivity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Range</strong></td>
<td>100klux 60m</td>
<td>15klux 80m</td>
</tr>
<tr>
<td></td>
<td>100m</td>
<td>145m</td>
</tr>
<tr>
<td>Minimum range*</td>
<td>0.2m</td>
<td></td>
</tr>
<tr>
<td>Maximum range</td>
<td>600m</td>
<td></td>
</tr>
<tr>
<td>Range accuracy**</td>
<td>3cm @1σ distribution, &lt;5cm bias</td>
<td></td>
</tr>
<tr>
<td>Field of view</td>
<td>73°x20° (HxV)</td>
<td></td>
</tr>
<tr>
<td>Angular resolution</td>
<td>0.2°x0.45° (HxV)</td>
<td></td>
</tr>
<tr>
<td>Frame rate</td>
<td>10 FPS</td>
<td></td>
</tr>
<tr>
<td>Reflection preference</td>
<td>Strongest, first or last</td>
<td></td>
</tr>
</tbody>
</table>

## LASER

- Laser product class: Class I, Eye-safe (IEC-60825-1)
- Wavelength: 905nm

## OUTPUT

- Points returned per second: 178k
- Connection: 100BASE-T / 1000BASE-T Ethernet
- Outputs (UDP): Per reflection: Distance, Ambient IR, Confidence, Reflectivity
  Per frame: Blockage map
- Time stamp: 1μsec resolution, GPS synchronized

## CONTROL INTERFACE

- Command and control: TCP/IP
- Time synchronization: PPS plus $GPRMC message inputs through dedicated connector pins
- UDP routing protocols: Broadcast, Unicast or Multicast
- Features: Web Server for cross-platform control and monitoring
  InnovizPlayer point cloud viewer, recording and playback tool
  Windows, Linux, ROS and Python drivers; Upgradeable device software

## MECHANICAL / ELECTRICAL

- Power consumption: 38W (maximum), 35W (nominal)
- Operating voltage: 9-32V (regulated)
- Dimensions (HxWxD): 73x66x165mm
- Weight: 950g
- Mounting: 4 threaded mounting holes, 2 alignment pins

## OPERATIONAL

- Temperature: Operating: -20°C-55°C (4°F-131°F) Storage: -40°C-85°C (-40°F-185°F)
- Ingress protection: IP67
- Shock and vibration: 300m/s², 6ms, half-sine, 3,000 shocks/axis; 500m/s², 6ms, half-sine, 10 shocks/axis
- Certifications: FCC, CE, KCC, CCC (exempt), DENAN/PSE, RoHS, WEEE, REACH
- Data connector: HDMI
- Power connector: Male M8 (4-position, A-coding)
- Indication LED: 3 colors
- Interface box: HDMI, RJ45 (Ethernet), USB Type-C (to power a GPS device), DB15 (PPS, $GPRMC, and sync)

Specifications subject to change without notice
* At room temperature for 50% reflectivity target
** At room temperature for 50% reflectivity target at 50m distance