Powerful New Crop Measurement Systems

The 4P Series multispectral sensors have 6 high resolution bands and all-new modular capability to support precision crop measurements.

- 6 high resolution bands (RGB, Red, Red Edge, NIR)
- 4P+ has 2X the resolution of the 4P
- Precision Navigation Module now included
- Powerful onboard processing using Smart Compression™ technology
- Flexibility to work with most small UAVs with DJI SKYPORT integration available
- Immediate, on-site analytics with no network connection required
- Exportable data to be consumed wherever, whenever, and however you’d like
The 4P Series ultra-high resolution imaging delivers the most advanced data products available in aerial agronomy, data that only human scouts have been able to produce until now. Some unique use cases include:

- Counting and sizing individual plants for improved yield forecasting
- Detecting weed growth for more precise herbicide applications
- Measuring plant health conditions for more efficient nutrient use
- Enabling users to train the 4P Series to find features and signatures of interest to their own operations with proprietary SmartDetection™ algorithms

You have to be able to trust your data. Changing sunlight conditions, variable soil types, and canopy density are all well-known error sources for other aerial measurement systems, from satellites to manned aircraft to low altitude drones. Only the SlantRange sensor family includes the patented and essential technology to eliminate these error sources before they enter your dataset - so you can trust your results for important decisions.
The Precision Navigation Module now comes standard with all 4P and 4P+ sensors. Enjoy enhanced accuracy and advanced applications, no matter your measurement needs.

**Enhanced Crop Measurement Accuracy**

- LIDAR Rangefinder
- Integrated Dual Antenna RTK GPS
- Modular Compatibility With 4P Series Sensors
- LIDAR Rangefinder Accuracy <10 cm
- Our Most Accurate Plant Counting And Sizing Solution

<table>
<thead>
<tr>
<th>LIDAR Wavelength</th>
<th>905 nm (Class 1)</th>
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</thead>
<tbody>
<tr>
<td>LIDAR Maximum Range*</td>
<td>250 m</td>
</tr>
<tr>
<td>LIDAR Resolution</td>
<td>1 cm</td>
</tr>
<tr>
<td>LIDAR Accuracy</td>
<td>&lt; 10 cm</td>
</tr>
<tr>
<td>LIDAR Divergence</td>
<td>8 mrad x 1 mrad</td>
</tr>
<tr>
<td>INS Roll/Pitch Accuracy (RMS)</td>
<td>0.1 deg</td>
</tr>
<tr>
<td>INS Dynamic Heading (RMS)</td>
<td>0.3 deg</td>
</tr>
<tr>
<td>GPS</td>
<td>RTK enabled Dual L1**</td>
</tr>
<tr>
<td>Navigation Solution</td>
<td>EKF with world magnetic and gravity models</td>
</tr>
</tbody>
</table>

*LIDAR range is dependent on target reflectivity
**With compatible RTK base station

**The Industry’s Most Reliable Plant Counting & Sizing Solution**

When you need accurate measurements of your crops, our 4P Series multispectral sensors combined with the Precision Navigation Module provides you with unmatched precision. Get improved accuracy and map quality, especially in areas of uneven terrain.

**Get Precise Measurements For Advanced Applications**

Our all-new Precision Navigation Module originated with the need for even more precise measures of plant count, size, and shape for aerial phenotyping and pre-harvest yield applications. The integrated dual-antenna RTK GPS and LIDAR rangefinder measure sensor position relative to the plant within centimeters, so measurement scale is precise.

**Now Included With All 4P Series Sensors**

The Precision Navigation Module now comes standard with all 4P and 4P+ sensors. Enjoy enhanced accuracy and advanced applications, no matter your measurement needs.