



# GS-130D

UAV Lidar Scanning System GS-130D  
With Integrated Multispectral Camera

**LIDAR**

Self Developed  
**POS**

Trajectory One key  
**solution**

Multispectral  
**Camera**

RGB and  
**NDVI**



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# GS-130D

UAV Lidar Scanning System GS-130D  
With Integrated Multispectral Camera

**Highly**  
Integrated

**Highly**  
Precision

**120m**  
Ranging

**Highly**  
Efficiency

**Multi**  
Platform

**Easy**  
Operation

GS-130D lidar scanning system is a UAV measurement system independently developed by international navigation. It highly integrates laser scanner, GNSS satellite positioning system, INS inertial navigation system and multispectral camera, and can quickly obtain high-precision laser point cloud number. It can be widely used in Forestry and Agriculture.

## System Parameter

|                     |             |                   |                                 |
|---------------------|-------------|-------------------|---------------------------------|
| Accuracy            | ≤10cm@120m  | Dimension         | 197*115*110mm                   |
| Weight              | 1.6kg       | Storage           | 64 GB Max support 128GB TF card |
| Working Temperature | -20° ~ +55° | Carrying Platform | Multi Rotor/VTOL                |

## Laser Unit

|                   |                                 |                |                                 |
|-------------------|---------------------------------|----------------|---------------------------------|
| Measuring Range   | 0.3m-120m                       | FOV            | 360°, adjustable                |
| Laser Class       | 905nm Class1 (IEC 60825-1:2014) | Range Accuracy | ±1.5cm                          |
| Laser Line Number | 32-Beam                         | Data           | Double echo 1280,000 Points/Sec |

## POS Unit

|                      |        |                   |   |
|----------------------|--------|-------------------|---|
| Update Frequency     | 200HZ  | Position Accuracy | ≤0.05m  |
| Pitch /Roll Accuracy | 0.005° | GNSS Signal Type  | GPS L1/L2;GLONASS L1/L2<br>BDS B1/B2a/B3;GAL E1/E5b |
| Heading Accuracy     | 0.017° |                   |   |

## Pre-Processing Software

|                           |         |                      |          |
|---------------------------|---------|----------------------|----------|
| POS (Trajectory) Software | Shuttle | Point Cloud Software | gAirHawk |
|---------------------------|---------|----------------------|----------|

## Camera

|                         |                           |
|-------------------------|---------------------------|
| FOV                     | HFOV: 49.6° VFOV: 38°     |
| Weight                  | 275g                      |
| Focal Length (mm)       | 5.2                       |
| Typical Width           | 110m*83m@AGL=120M         |
| Resolution              | 1280*960                  |
| Ground Pixel Resolution | GSD: 8.65 cm/pix, AGL:120 |



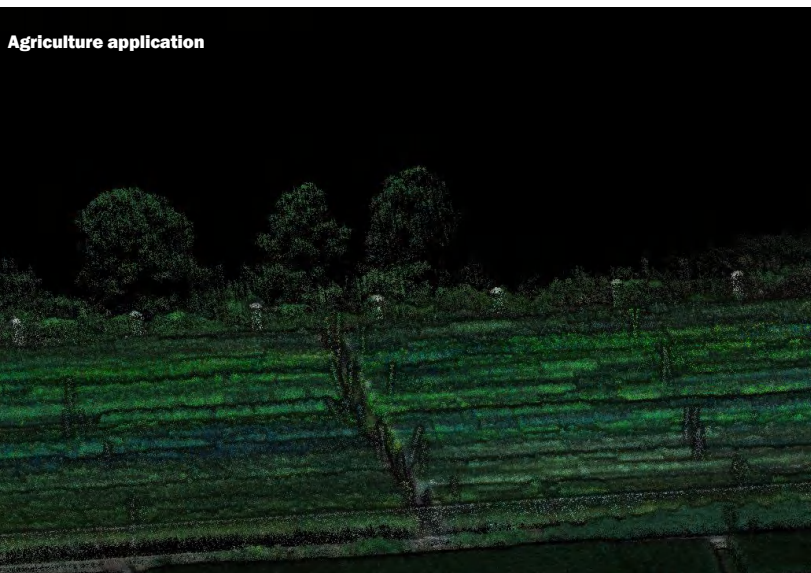
## Operation Efficiency Table

| Flight Height (m) | Density (pts/m <sup>2</sup> ) @ speed 10m/s | Single Flight Operation(km <sup>2</sup> ) |
|-------------------|---|---|
| 50                | 128   | 1   |
| 100               | 64  | 1.65                                      |

## Mission Planning Software (Optional)

|                           |  |
|---------------------------|--|
| Mission Planning Software | Customized Route Planning Software – WayPoint Master |
|---------------------------|--|

## Application case



Model:GS-130D  
 Flight speed:10m/s  
 Flight altitude:80m  
 Application:Forestry Survey  
 Project location:Wuhan, China

