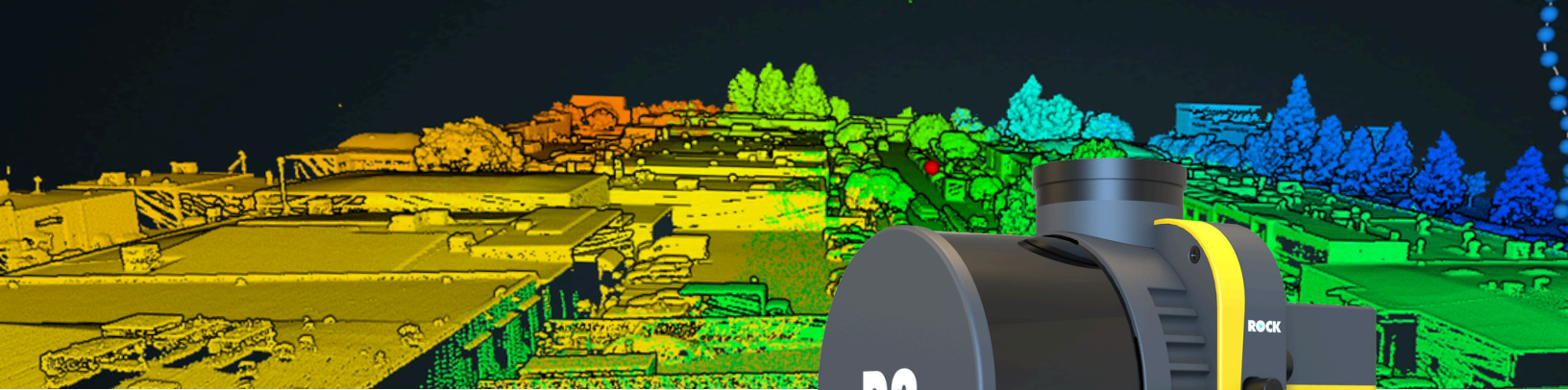




ROCK R3 V2

Aerial + SLAM

The **ROCK R3 V2** is a powerful, LiDAR solution built with surveyors in mind. Its dual operating modes—**Aerial (GNSS/PPK)** and **Handheld (SLAM)**—allow you to capture survey grade data in open skies and complex indoor or obstructed environments. Backed by ROCK Desktop and ROCK Cloud, the R3V2 forms a complete field-to-finish mapping workflow.

KEY ADVANTAGES:

DUAL MODES:

- **Aerial** (GNSS/PPK): Ideal for large-area topographic and ALTA surveys
- **Handheld** (SLAM): Perfect for GPS-denied or complex indoor sites

HIGH ACCURACY:

- 5 mm laser ranging precision
- 2–3 cm overall system accuracy (at 40 m AGL)

VERSATILE MOUNTING:

- DJI M300/M350 SKYPORT or Universal Mount for broader compatibility



QUICK SPECS

Parameter	Specification
System Accuracy	2–3 cm @ 40 m AGL
Laser Precision	5 mm
Weight	1.2 kg
IMU	0.03° Heading 0.006° Pitch/Roll
Recommended Flight	50m AGL 5 m/s
Measurement Rate	320k pts/s (single); 640k pts/s (dual)

WHAT'S IN THE BOX

- **R3 V2** 16 LASER LIDAR
- **26 MP** CAMERA
- **SLAM DOCK V1**
- ROCK DESKTOP PPK (1 YR)
- ROCK PHOTOGRAMMETRY (1 YR)
- ROCK CLOUD 500 GB (1 YR)
- COLORIZED SLAM (OPTIONAL)
- UNIVERSAL MOUNT (OPTIONAL)
- MOBILE MOUNT (OPTIONAL)



TECHNICAL SPECIFICATIONS

SYSTEM PARAMETERS

Weight:	1260g ± 10g
Dimensions:	159mm × 118mm × 127mm
Power Consumption:	25W
Power Supply:	10 ~ 30V DC
Device Interface:	SKYPORT / Universal Mount
Data Storage:	USB - disk 256GB
Operating Temperature:	-10°C ~ 50°C
System Accuracy:	0.1 ft (3cm)

IMU/GNSS

GNSS Signal Tracking:	BDS, GPS, GLONASS GALILEO L1/L2/L5
Operating Mode:	PPK
Pitch/Roll Accuracy:	0.006° PPK
Heading Accuracy:	0.03° PPK

LASER UNIT

Laser Class:	Class 1
Wavelength:	905nm
Measurement:	120m@60%reflectivity
Range Precision:	5mm
Horizontal FoV:	360°
Vertical FoV:	31°
Number of Returns:	2
Measurement Rate:	320,000/s (single return) 640,00/s (dual return)

AERIAL METRIC CAMERA

Pixels:	26 MP
Sensor Dimension:	23.5 × 15.7mm
Image Resolution:	16252 × 4168
Image Width FoV:	73°
GSD:	2.3cm@100m Flight Height

OPTIONAL MOUNTS

ROCK Colorized SLAM Dock V2



Advanced SLAM device with 360° imaging, GPS, and advanced mounting options



ROCK Mobile Mount



Suction mount for vehicle. Requires ROCK Desktop Mobile Processing and SLAM Dock V2.



ROCK Universal Mount



32mm x 32mm mounting pattern for easy integration into 3rd party vehicles.



Contact ROCK Sales to get started!

ROCK Sales # +1 (720) 706-8648
Email Address sales@rockrobotic.com

LEARN MORE



TALK TO SALES

