FJDynamics



FJD Trion™ S2 SERIES

LIDAR SCANNER

SMALLER SIZE, LARGER CAPABILITY

The FJD Trion S2 LIDAR Scanner boasts advanced VIO and SLAM algorithms for generating high-quality and reliable point clouds. Supporting over 8000 coordinate systems, the S2 eliminates the need for time-consuming manual coordinate conversions. By integrating with FJD Trion Scan and Model software and utilizing practical accessories like stabilizing vest, drone mount, car mount, and e-dog, the S2 enhances data capturing and processing efficiency for outdoor surveying projects.

1.2 cm Accuracy

Real-time Colorization

Multi-SLAM Algorithms

Georeferenced Point Cloud

Multi-Scenario Adaptation

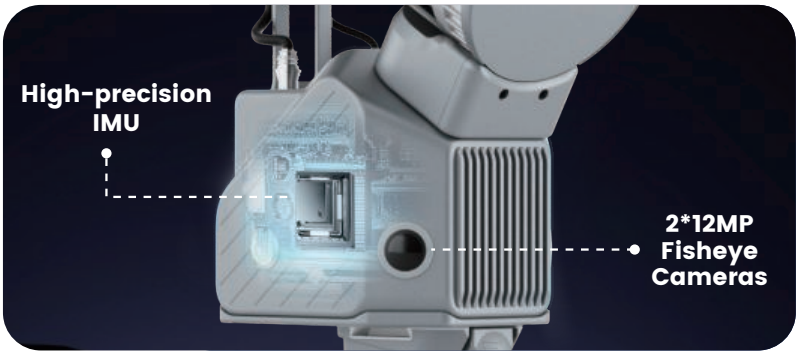
Indoor & Outdoor Scanning

S2	S2 PRO	S2 MAX
320,000 Points per second	**640,000** Points per second	**640,000** Points per second
120m Range	**120m** Range	**300m** Range

MULTI-MODULE INTEGRATION

Integrate camera, IMU, and RTK modules into a compact form of 2kg in weight, allowing you to carry it around for various surveying projects.





MULTI-SLAM ALGORITHMS FOR ACCURATE OUTPUT

Embed two 12MP cameras to generate high-resolution images with advanced Visual-Inertial Odometry (VIO) and SLAM algorithms, delivering accurate results even in complex environments with fewer feature points.



EFFORTLESS SCANNING & CARRYING

Capture point clouds in all directions even in hard-to-reach areas with practical accessories, including stabilizing vest, extension pole, backpack, and rolling suitcase. You can just go and scan anytime, anywhere.



ALL-IN-ONE SEAMLESS WORKFLOW

Seamlessly integrate with both FJD Trion Scan and Model software, offering a streamlined workflow from data capture to final deliverables.



Data collection
Realtime control APP

Data processing
Multi-industry application modules

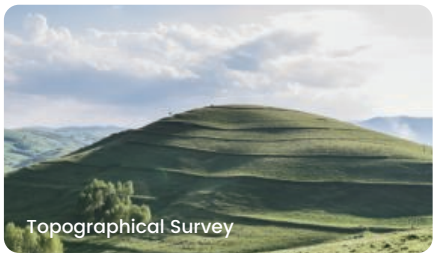
Collaborate and Deliver
generate construction, forestry and mining reports and share online

APPLICATION SCENARIOS













QUICK SPECS

LiDAR

	S2	S2 PRO	S2 MAX
Range	120m @ 80% reflectivity 80m @ 10% reflectivity	120m @ 80% reflectivity 80m @ 10% reflectivity	300m @ 80% reflectivity 80m @ 10% reflectivity
Channels	16	32	32
Speed	320,000 pts/s	640,000 pts/s	640,000 pts/s
FOV	360° × 270°	360° × 270°	360° × 270°
Safty level	Class 1 / 905 nm, eye safety	Class 1 / 905 nm, eye safety	Class 1 / 905 nm, eye safety

System Parameters

Relative Accuracy*	1.2 cm
Absolute Accuracy	3 cm
Weight	1.8 kg (excludes battery, external camera and RTK module)
Battery Life	3 h (with 1 set of 2 batteries)
Storage	512 GB (1TB expandable)
Operating Temperature	-10 °C ~ 50 °C
Power Consumption	25 W
Size（including base and battery）	107 × 118 × 398 mm
Data export	WIFI, USB Type-C, USB Type-A
Point Cloud Format	.las / .ply / .pts / .e57
Power Supply	10.8 V, 3 A

*Measured in experimental environment

Camera

Resolution	2 × 12MP
FOV	200°
Visual Slam	Support
Image Export	Support
Image Format	.jpg

GNSS

Satellite Constellation	GPS L1 / L2 / L5 BDS B1 / B2 / B3 GLONASS L1 / L2 / L3 Galileo E1 / E5a / E5b / E6
RTK Accuracy	H: 8 mm + 1 ppm RMS V: 15 mm + 1 ppm RMS
PPS	Support

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CREATE FOR A BETTER WORLD

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