3DMAKERPRO

Eagle Series

Turning Views into Data, Reality into Virtuality

8K Ultra imaging

Up to **140m** Scan range

Up to **2cm** Accuracy

All-in-one Workflow



Eagle LiDAR Scanner

Handheld spatial 3D scanning equipment



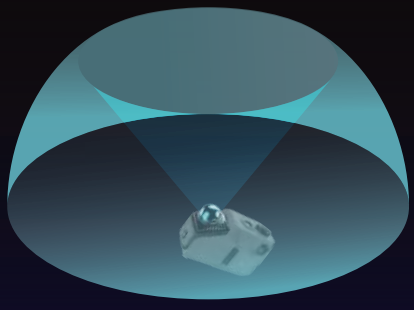
Weight 1.5KG

Integrated, lightweight, and efficient data collection



360 ° True 3D

Hybrid solid-state laser technology, ultra large field of view angle



Multi environment adaptation

Seamless switching between different environments



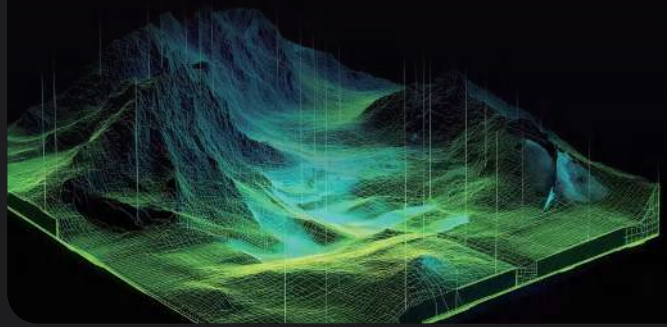
High precision and reliability of data results

Effective control of cumulative errors



High visualization effect

360 ° panoramic view, shaded point cloud, 3D Gaussian, colored mesh



Standard format output

Comprehensive 3D solution



Developer Program

The convenient, efficient, and accurate 3D spatial laser scanning solution is composed of Eagle scanner and its powerful software.
The point cloud, photos, and IMU data obtained through scanning with the Eagle device can be easily imported into RayStudio software with just one click, enabling filtering and denoising, intelligent stitching, 3D modeling, data editing, and result quality inspection. Depending on different application scenarios, the results can be rende red into colored point clouds, 3D panoramic comics, or 3D Gaussian, and then published on the Vision Cloud Exhibition platform with just one click, enabling data sharing between different departments and applications.

DATA ACQUISITION

Eagle LiDAR Scanner

Handheld 3D scanning modeling equipment

01

02

DATA PROCESSING

Ray Studio

Data editing and processing software

COLLABORATIVE SHARING

Vision Creation Cloud Exhibition

Data Achievement Display Platform

03

04

INDUSTRY APPLICATIONS

Cooperative partner

Application development in various industries

01

Provide one-stop service
SaaS based 3D scene display service system

02

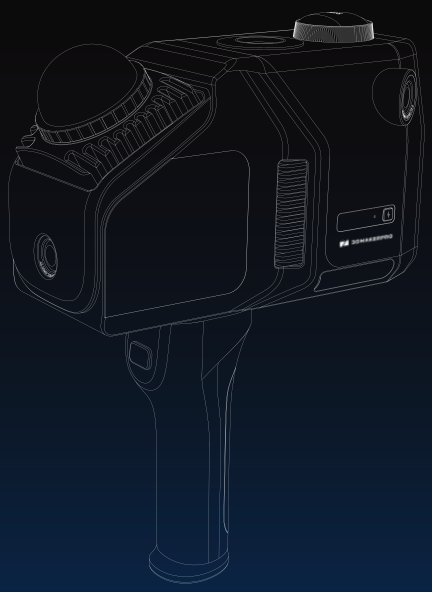
Integrate core open capabilities
Satisfy web and localization needs
Development mode requirements

03

Assist in creating high-quality 3D visual effects
Cloud Exhibition Hall

Industry Applications

Eagle LiDAR Scanner has the advantages of portability, ease of use, efficiency, and precision, providing industry users with a simple, easy-to-use, high-quality, and efficient 3D space modeling solution



Portable | Easy | Efficient | Precise



Public safety

- Complete restoration of the spatial structure of the crime scene
- Quickly solidify the site and protect critical evidence, preserving every detail of the environment
- 3D on-site simulation makes the case replay more intuitive
- Cross departmental sharing of achievement information to achieve efficient joint case handling



Traffic accident

- Efficient collection and real-time generation of 3D models of accident scenes
- Significantly improve the efficiency of on-site survey work and avoid affecting traffic flow
- Accurate capture of details, reducing omissions and errors in manual measurements
- 3D real scene data, supporting accident analysis and responsibility determination
- Improve the integrity and reproducibility of on-site data



Emergency firefighting

- Assist firefighters in quickly understanding the site layout in complex and low visibility environments
- Significantly improve the efficiency and safety of fire scene investigation work
- Fire scene investigation and response, more intelligent and digital





Real estate surveying and mapping

- Real time generation of 3D maps of the interior of buildings
- Quickly build 3D models that can comprehensively present the three-dimensional structure of the house
- Meet the accuracy requirements of real estate surveying and mapping, and efficiently output drawing results
- Provide 3D data support for architectural design and property display



Cultural Relics Protection

- Build a comprehensive 3D model of cultural relics and collect information on each element of cultural relics
- Provide data support for the digital protection, restoration design, and virtual display of cultural relics
- Non contact collection to avoid secondary damage to cultural relics
- Significantly improve the efficiency and accuracy of the protection of ancient architectural relics



Interior design

- Quickly obtain three-dimensional real data of indoor environment
- Using AI intelligence to generate multiple decoration styles and intuitively plan spaces
- Can provide accurate construction budget and record the entire decoration process
- Improve satisfaction with decoration decisions and promote digital marketing in the home decoration industry

Technical Parameter

Eagle LiDAR Scanner

3D laser scanner



Eagle Max

Eagle

Eagle Max

Camera System

4x 48MP 8K
HD cameras

Eagle

Camera System

1x 48MP 8K
HD cameras

Other technical parameters

Accuracy	2cm 10 meters, 3cm 20 meters, 5cm 40 meters
Scan radius	40 -70 meters(>10% reflectivity or >80% reflectivity)
Scan range	80-140 meters
Scan angle	Horizontal 360°, Vertical 59°
Point cloud frequency	200,000 points/second
Laser light source	905 nm
Eye safety level	Class 1 (IEC60825-1:2014) Eye safety
HDR mode	Support (3-5 exposure values)
Data interface	USB-TypeC*2
Network support	Wi-Fi 5
Screen	3.5"
Output format	3D Color Point Cloud PLY 3D Gaussian Splatting PLY 3D Colored Polygonal Model OBJ 3D Panoramic Tour Data OBJ
Built-in battery	12000 mah, supports 1 hours of work, supports external power supply while charging
Volume	115*181*106mm
Weight	1.5 kg
Configuration	8 Cores 2.4GHz 32GB (Supports TF card expansion)

3DMAKERPRO

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