Larger Sensor, Refined Capture, Sharper Reality

SHARE SLAM S20

Handheld LiDAR 3D Scanner

SHARE SLAM S20 redefines mobile scanning with dual 1-inch mechanical global shutter cameras and hybrid vision-laser SLAM for sub-centimeter accuracy. The lightweight device offers 150-minute runtime, real-time colorized point clouds, and centimeter RTK georeferencing empowering application projects. Open-data SD K supports robotic integration, while optimized workflows empower 3D modeling.

Advantages

Multi-modal SLAM for environments with low content of photogrammetric features

Images and point clouds dual-channel coupling model for spatial scenario re-creation

AUTO WB

Accurate color rendition, reality reconstruction

Images alignment for 3DGS

Features

SLAM & RTK

25° Titled LiDAR Design

Mechanical Shutter

Multiple Data Transmission

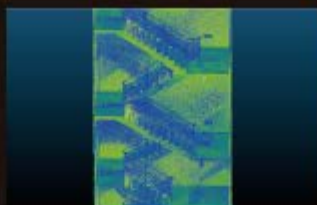Ultra Long 150 Mins

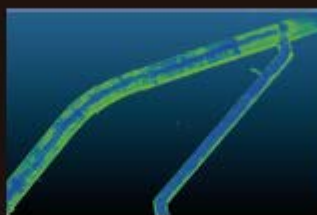Open-data SDK

Applications

BIM
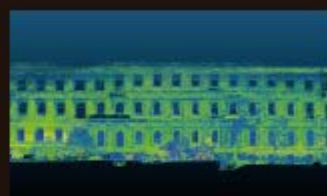

3D Reconstruction & Linear Measurements

Digital Heritage

Volume Measurements

Underground Inspection

Property Management & Assessment

Technical Specifications

LiDAR Class	Class 1/905 nm
Point Clouds Number	200,000 points/s
Scanning Range	0.1~40m@10% reflectivity; 0.1m~70m@80% reflectivity
LiDAR FOV	Horizontal 360°; Vertical 59° (-7° to +52°)
LiDAR Installation	Tilt 25° to the ground
RTK Accuracy	Horizontal 0.8 cm+1ppm; Vertical 1.5 cm+1 ppm
Sensor Size	13.13×8.76 mm; 1-inch
Pixel Size	2.4 µm
Image Size	3504×4672 pixels
Effective Pixels	Single lens 16 million
Shutter Type	Mechanical shutter; Electronic shutter
Focal Length	3.5 mm
Lens FOV	Horizontal: 140°; Vertical: 200°
Frame Rate	30 Hz
Working Time	150 mins
Point Cloud Thickness	≤1 cm
Relative Accuracy	≤1 cm
Absolute Accuracy	≤5 cm