

2025

Company Profile



PT. TOTAL TEKNIKA
NUSARAYA

Authorized Dealer of

Aptella AUTOMATION +
POSITIONING TECH

Jl. Ronggolawe no. 441, Batokan, Kecamatan Kasiman,
Bojonegoro

totalteknikanusaraya@gmail.com

+6282234082284

Tentang Kami

PT Total Teknika Nusaraya adalah perusahaan yang bergerak di bidang survei dan pemetaan, survei statistik, serta penyediaan peralatan keselamatan kerja. Kami juga menjual peralatan survei, teknologi monitoring, dan machine control dengan dukungan kecerdasan buatan (AI) untuk meningkatkan efisiensi dan akurasi pekerjaan. Dengan pengalaman dan teknologi terkini seperti GPS geodetik, total station, drone, serta sistem monitoring otomatis berbasis AI, kami siap memberikan solusi profesional dan inovatif bagi kebutuhan proyek di berbagai sektor di seluruh Indonesia.



Our **Mission** and **Vision**

Mission

We Explore With No Limit, We Focus on Precision, We Present The Details

We explore with no limit

Our services are not limited by distance, location and time. we provide maximum service in all fields

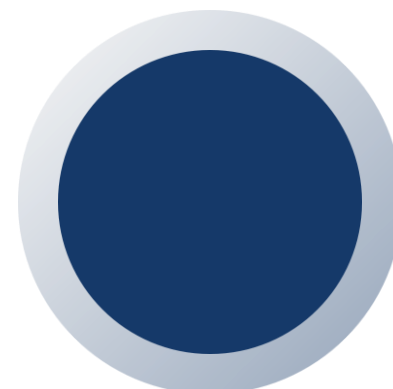
We focus on precision

we focus on the accuracy and authenticity of the data we provide

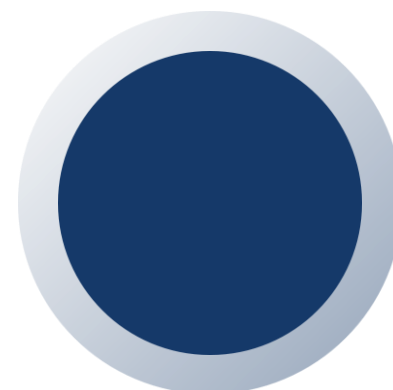
We present the details

The data we convey focuses on clients, in the form of data that is attractive, easy to understand, and accountable

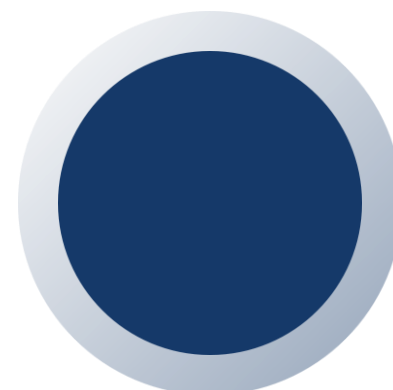
Jasa dan Produk Kami



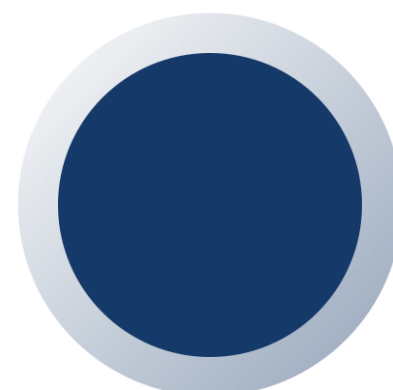
**Geodetic
Survey**



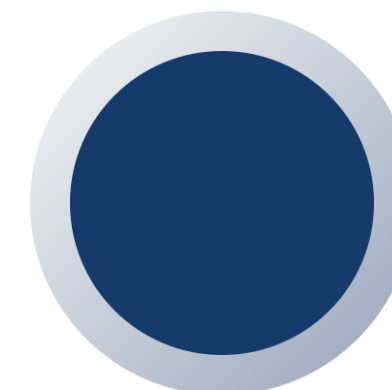
**Statistic
Survey**



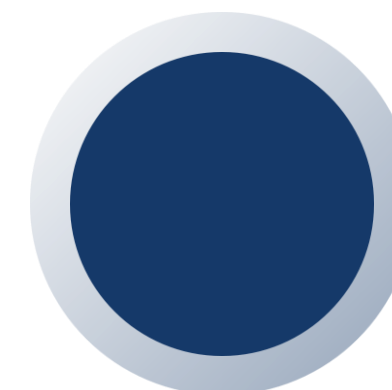
**Safety
Equipment**



**Machine
Control**



Laser Scanner



**Monitoring
System**

Our Milestones

2023

PT. Total Teknika
Nusaraya Berdiri dengan
Layanan Jasa Survey dan
Safety Equipment

2025

Memperluas Jasa dan
Produk dengan 3D Lasser
Scanner, Machine
Control, Sistem
Monitoring, dan AI

Our Team



Aryan Prasetyo Adji, S.T.

Direktur



Irfan Afifi, A.Md.Ro., S.Si., M.M.

Data Analyst & Safety
Equipment Expert



Melisa Amalia, S.T., M.T.

Geodetic Expert



Bimantara G P, S.T.

Environmental Eng &
Marketing Specialist

Produk Terbaru Kami **LixelKity K1**



LixelKity K1 adalah perangkat pemindaian dan pemodelan 3D genggam yang baru diperkenalkan oleh XGRIDS. Dengan bobot ringan $<1\text{kg}$, perangkat ini mengintegrasikan modul penglihatan panoramik 48 MP $\times 2$ dan LiDAR 360° , memungkinkan pembuatan model 3D berwarna dengan tingkat akurasi sentimeter secara real-time. Dirancang untuk profesional, bisnis kecil hingga menengah, serta penggemar 3D, LixelKity K1 menawarkan solusi praktis untuk pemindaian dan pemodelan 3D.

Performa Perangkat

Parameter	Spesifikasi
Input daya	14.4V
Konsumsi daya	<20W
Berat	1kg
Antarmuka data	USB3.1 Gen2
Kapasitas penyimpanan	TF card 256GB (Dapat diganti)
Mode koneksi	Wifi/Bluetooth
Suhu operasional	-20°C~50°C
Tingkat perlindungan	IP54
Material produk	Aluminium Navigasional
Sumber daya	Baterai fast-lock/eksternal
Waktu operasional	1,5 jam
Kapasitas baterai	28.8Wh
Jumlah kamera	4
Posisi berbantu visual	Didukung
Jarak WiFi aplikasi	20m
Modul RTK	Didukung

Performa Pemindaian

Parameter	Spesifikasi
Jumlah garis laser	40
Kelas laser	Kelas 1 / 905nm
Akurasi relatif	1,2cm
Akurasi absolut	3cm
Akurasi ulang	2cm
Akurasi horizontal	0.015°
Jangkauan kerja	0,1m~40m@10%, 70m@80%
FOV LiDAR	360° * -7°~52°
Mode pemindaian	Mobile
Kecepatan pemindaian	200.000 poin/detik
Melanjutkan pemindaian dari titik jeda	Didukung

Modul Visual

Parameter	Spesifikasi
FOV Kamera	Panorama berwarna HDV 360° * 360°
Resolusi Kamera	5,6 juta piksel

Data & Penyimpanan

Parameter	Spesifikasi
Mode perhitungan	Perhitungan waktu nyata / Perhitungan campuran
Perangkat lunak perhitungan	Lixel Studio untuk pemrosesan pasca di Windows
Format Point Cloud	.Las
Point Cloud berwarna	Didukung

LixelKity K1

Color Point Cloud before/after post processing



Color Point Cloud before/after post processing



Produk Terbaru Kami

L2 Pro



Standard RTK

Survey Grade RTK

Lixel L2 Pro adalah perangkat pemindai 3D genggam berpresisi tinggi yang mengintegrasikan teknologi LiDAR, kamera panorama 48MP ganda, dan IMU presisi tinggi dalam desain all-in-one. Dengan operasi satu sentuhan yang sederhana, perangkat ini mampu menghasilkan data point cloud berwarna secara real-time dengan akurasi absolut 3 cm dan akurasi relatif 1 cm.

Dengan Lixel L2 Pro, Anda dapat mencapai efisiensi tinggi dalam pemindaian dan pemodelan 3D, menjadikannya alat yang ideal untuk berbagai aplikasi profesional.

System Parameters	Weight	1.7kg*
	Size [1]	180mm×130mm×400mm*
	Outer Casing	Industrial-grade Aluminium
	Power Consumption	<30W
	Interfaces	USB 3.1 Gen2
	Storage	1T SSD
	Continuous Operation Time	90min
	Wireless	Supports WiFi, Bluetooth: 802.11a/b/g/n/ac, 2.4~2.4835Ghz and 5.15~5.85Ghz
Environment	Operating Temperature	-20°C~50°C -4°F - 122°F
	IP Rating	IP54
Functions	Visual Positioning	Supported
	Real-time RGB	Supported
	Real-time RTK fusion	Supported

Output	Point Cloud Formats	.las .ply
	Image Formats	.jpg
Real-time Accuracy	Absolute Vertical Accuracy (RMSE) [2]	3cm*
	Absolute Horizontal Accuracy (RMSE) [2]	3cm
	Measurement Accuracy (RMSE) [3]	2cm*
Processed Accuracy	Absolute Vertical Accuracy (RMSE) [4]	3cm*
	Absolute Horizontal Accuracy (RMSE) [4]	3cm*
	Measurement Accuracy(RMSE) [3]	1cm*
	Repeat Accuracy(RMSE) [5]	2cm
	Point Cloud Thickness [5]	0.5cm*
	Horizontality (with RTK) [6]	0.015°
	Verticality	0.03°
	LixelUpSample	Supported*
LiDAR	Operating Range	0.5m~120m 0.5m~300m
	LiDAR Sensor	Class 1 / 905nm
	Sensor FOV	360°×270°
	Scanning Frequency	320,000 points/s 640,000 points/s

[1]Includes battery and base, excludes other accessories.

[2]RTK disconnection <100m.

[3]Distance between two points is less than 100m.

[4]GCP/RTK disconnection <100m.

[5]Two RTK-enabled scans without disconnection.

[6]Point cloud thickness within 10m of the walking path.

Camera for Panoramic Images	Resolution	2×48 Megapixels
	Focal Length	2mm
	Aperture	F/2.0
	CMOS	1/2"
	Shutter	Rolling shutter
	FOV	190°×190°
Camera for Visual Positioning	Resolution	1×1MP
	Shutter	Global shutter
	FOV	190°×119°
Battery	Voltage	14.4 V
	Capacity	46.8 Wh
Charging	Input	100V~240V,50 ~ 60 HZ 1.5A 80VA
	Output	16.8V 2.0A
	Power Rating	34W

Accessories and RTK	Backpack with Stabilizing Arm	Dimensions: 60cm×60cm×15cm Weight: 2.5KG
	Backpack with Padding	Dimensions: 55cm×35cm×25cm Weight: 2.7KG
	Standard RTK ^[7]	Supported Channels: GPS L1/L2/L5 GLONASS L1/L2 BDS B1/B2/B3 Galileo E1/E5a/E5b/E6b Accuracy: Horizontal: 0.8 cm+1 ppm Vertical: 1.5 cm+1 ppm
	Survey Grade RTK ^[7]	Supported Channels: GPS L1/L2/L5 GLONASS L1/L2 BDS B1/B2/B3 Galileo E1/E5a/E5b/E6b Accuracy: Horizontal: 0.8 cm+1 ppm Vertical: 1.5 cm+1 ppm
	2m Extension Pole	Supported
	Mobile Phone Mount	Supported
	Control Point Plate	Supported
	Shipping case	Dimension: 42cm*34cm*18cm Weight with System: 6.6kg

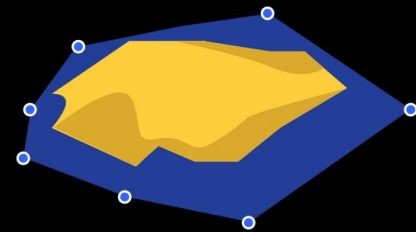
Lixel L2 Pro | True SLAM with real-time output



L2 (post-processed)



L2 PRO (real-time)



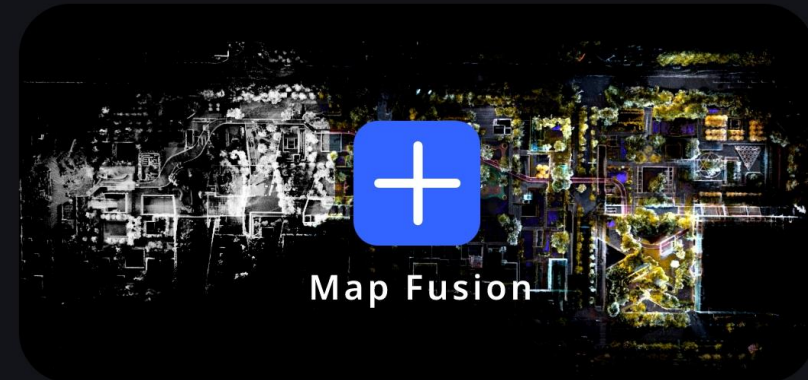
Stockpile Measurement



Support for Multiple
Data Formats



One-Click Project
Processing



Map Fusion



Mesh



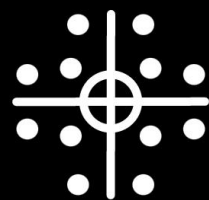
LixelStudio^{3.0}



Segment



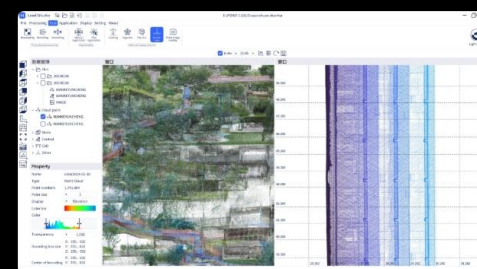
Measurement



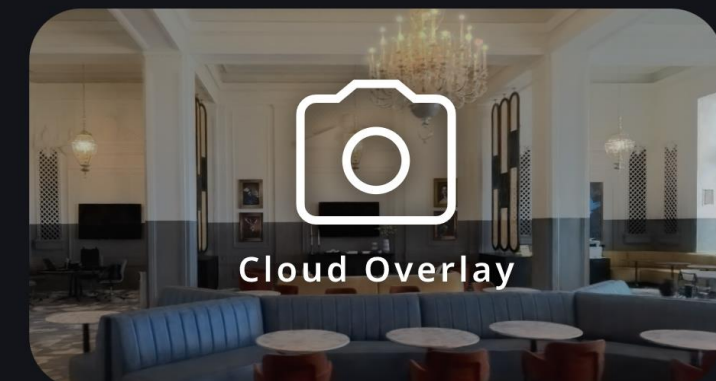
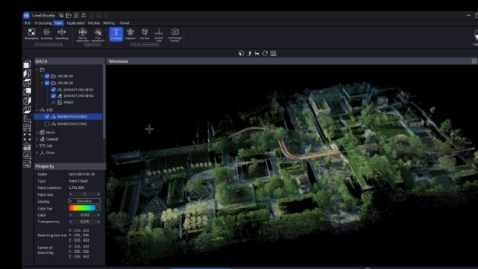
Registration



Clip Box

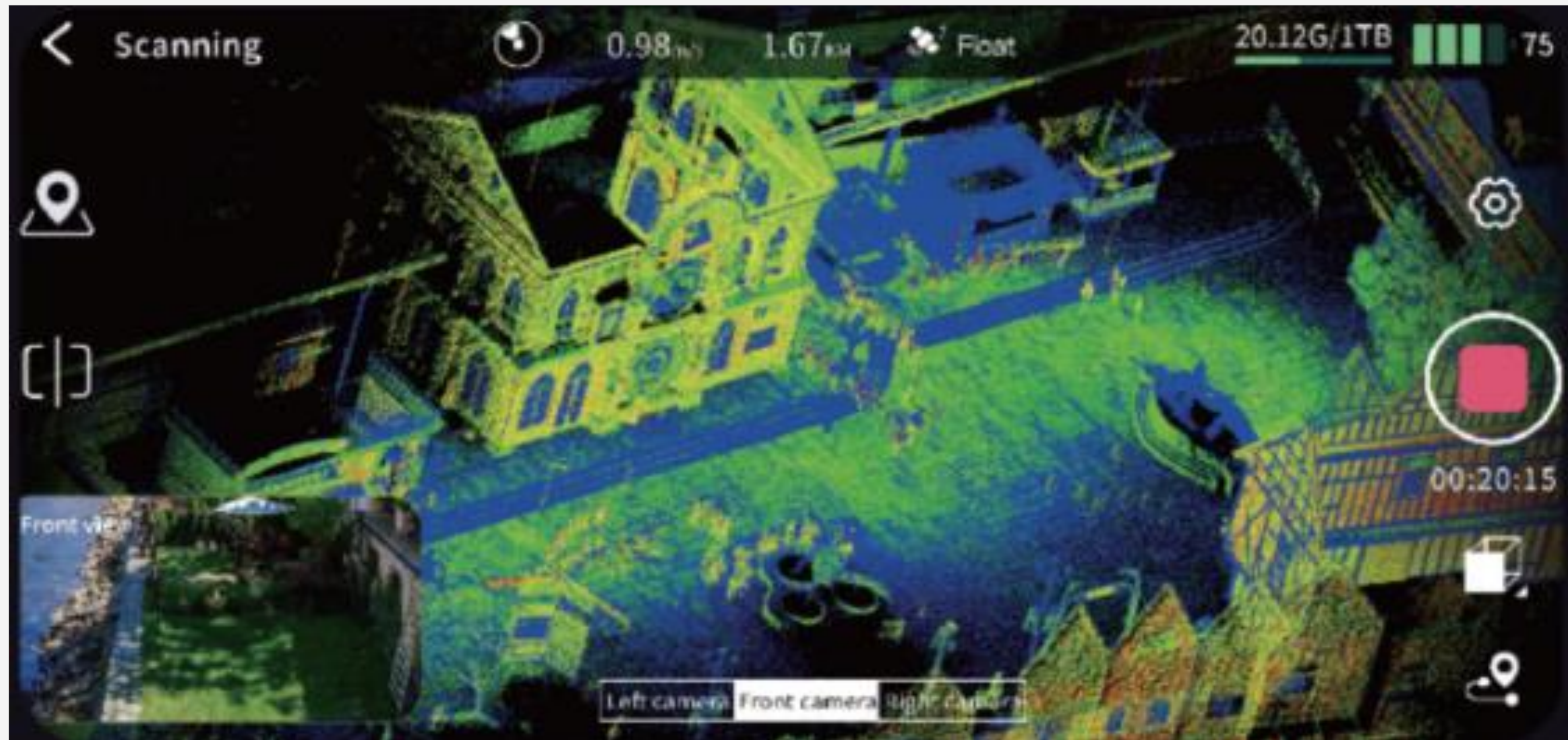


Light/Dark
Mode



Cloud Overlay

All-in-One Point Cloud Processing Software



Produk Monitoring



SWARM Sound – Sound Level Monitoring



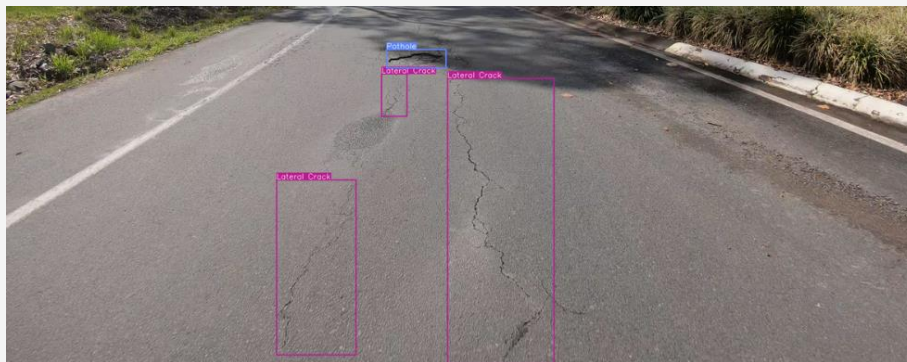
Omnidots Vibration Monitoring Sensor



GeoWAN Crack Sensor Node



GeoWAN Optical Displacement Node



- ◆ SWARM Sound Level Monitoring
- ◆ Omnidots Vibration Monitoring Sensor
- ◆ GeoWAN Crack Sensor Node
- ◆ GeoWAN Optical Displacement Node
- ◆ ARC Vision Road Monitoring

Machine Control



Topcon X-52 Machine Control For Excavators



Topcon C-53 Intelligent Compaction System



Topcon MC-Max Grader



Topcon MC-Max Dozer



Topcon Millimetre GPS+

Pengalaman Pekerjaan.

CV Mahes Mitra	Pengadaan Prescription Safety Glasses	2022
LABKESDA Ponorogo	Staking Out Titik As Pondasi Ponorogo	2023
PT Marindo Tech	Pengukuran Monitoring Settlement, Plumbness & Roundness Tangki Donggi Senoro LNG Luwuk	2023
PT Geo Green Synergy	Staking Out Titik Bor Tambang Nikel Morowali Sulawesi	2023
Rumah Sakit Muhammadiyah Lamongan	Foto Udara & Detil Situasi RS Muhammadiyah Lamongan	2024
PT Ramai Jaya Abadi	Foto Udara & Detil Situasi Stasiun Pengumpul Pertamina EP Cepu	2024
PT Ramai Jaya Abadi	Staking Out Titik Pondasi Fire Protection System Pertamina EP Cepu	2024
KJSB Diah Agustin dan Rekan	PTSL Desa Banyoening Laok Bangkalan, Madura	2024
CV Mahes Mitra	Pengadaan Prescription Safety Glasses	2024

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