



Tiki3D

From 3D Reality to Spatial Intelligence

Hardware



TWSMobile



NEW

TWSMobile 2026 is a portable, fully integrated mobile data processing center designed for rapid reality capture and large-scale 3D reconstruction in field and time-critical scenarios. Combining high-performance computing hardware with Tiki3D’s complete reality modeling software suite, it provides an efficient end-to-end workflow covering data processing, 3D modeling, model editing, data refinement, visualization, and browsing.



TWS TriFold-5080

TWS TriFold-5080 is a compact, single-node mobile GPU workstation designed for field data processing and 3D reconstruction. It integrates high-performance computing hardware, professional software, and three foldable 15.6-inch 4K displays into one portable system, providing an efficient plug-and-play workflow for mobile operations.



TWS Box

The TWS Box is a highly compact GPU Workstation series. It features latest Intel/AMD CPU, NVIDIA Graphic Card, in a easily scalable way, designed specially for reality 3D model processing. Despite its small size, the KWS Box delivers exceptional processing speed, enabling efficient handling of large data volumes with high-speed performance.

Model	TWS Mobile	TWS TriFold-5080	TWS Rack
Computing Nodes	5 node	1 node	4x1U node
CPU	AMD Ryzen 9 9950X / 9900X	Intel Core Ultra 9 275HX	Intel® Core™ i9-14900KF (36M Cache, up to 6.00 GHz)
GPU	NVIDIA GeForce RTX 5080 / RTX 5070 Ti / RTX 5060 Ti	NVIDIA GeForce RTX 5080 mobile	NVIDIA RTX 5070Ti GPUs
Memory	128 GB / 64 GB DDR5	64GB/32GB DDR5	4*DDR5 Max 48Gb per slot
Storage	16 TB NVMe SSD	8TB / 4TB / 2TB M.2 NVMe	3x M.2 Gen4 slots (B650), 2x M.2 (A620), or 1x M.2 (X600/X300)
Network	5G / 2.5G / 1G RJ45 ports and 10 Gbps optical port	1 / 2.5 / 5Gbps LAN and Wi-Fi 7	Dual 2.5G LAN + optional 10G SFP+ with PXE/SR-IOV support
Interfaces	USB 3.0/3.1 and HDMI	-	-
Weight	Approx. 30 kg; approx. 40 kg including monitor	From 7 kg	28kg
Power Requirement	2500 W and above	350W	2000W redundant PSU (94% efficiency), 240V DC/AC input
Dimensions	520 × 440 × 490 mm	390 × 280 × 70 mm	2U chassis (650 x 435 x 88mm)

LiDAR and Radar Systems

Pika3D Pocket Handheld SLAM 3D Laser Scanner

 **CM-LEVEL**
Accurate Capture

 **700 g**
Ultra-Portable

 **100 m**
LiDAR Range

 **MULTI-SCENE**
Efficient Mapping



Key Specifications

Weight	700 g, excluding camera
Dimensions	127 × 105 × 223 mm
Operating Time	Up to 3 hours
LiDAR Range	0.15–100 m
Ranging Capability	30 m @ 10% reflectivity
LiDAR Channels	16
Horizontal FOV	360°
Vertical FOV	40°
Point Rate	48,000 pts/s
Relative Accuracy	2 cm @ 60 m
Absolute Accuracy	5 cm
Operating Temperature	–20°C to 50°C
Connectivity	Wi-Fi / Bluetooth / Type-C
Storage	64 GB TF Card

Key Specifications

Weight	1.68 kg, excluding battery
Operating Time	Up to 180 min
LiDAR Range	Up to 300 m
Horizontal FOV	360°
Vertical FOV	280°
Effective Point Rate	640,000 pts/s
Relative Accuracy	1 cm
Absolute Accuracy	2 cm
Operating Temperature	–20°C to 55°C
Connectivity	Type-C / Skyport / GNSS
Storage	512 GB SSD



Pika3D L3 Handheld SLAM 3D Laser Scanner

 **ALL-IN-ONE**
Indoor & Outdoor Capture

 **GEOREFERENCED**
Direct Coordinate Output

 **REAL-TIME**
Full Point Cloud

 **VISIBLE ACCURACY**
Live Quality Feedback

UAV | Drones | Drone Dock

Tui26

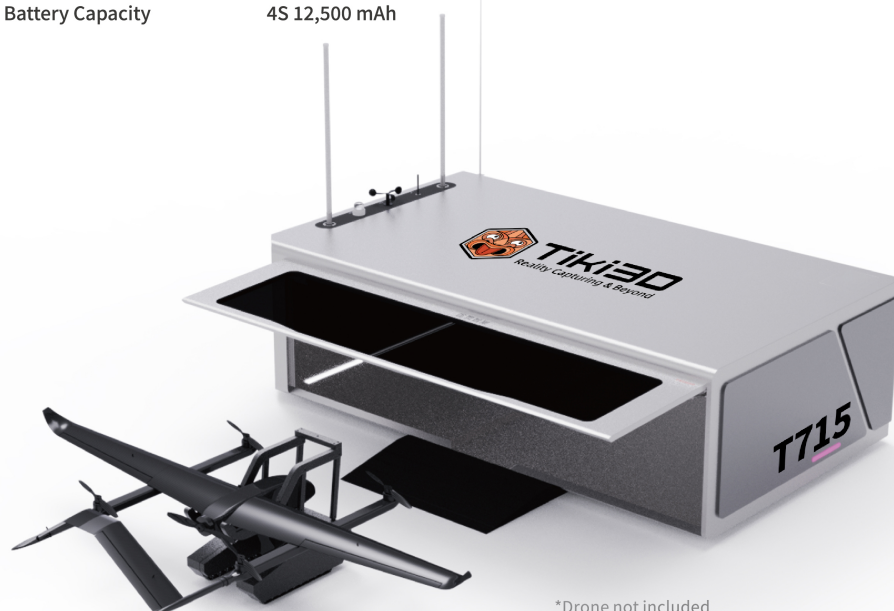
Tui26 Realtime Mapping Multirotor UAV

Flight Time	45–50 minutes
Wind Resistance	Level 6
Control Range	10–12.5 km
Positioning	GNSS + Optical Flow + ToF
GNSS	GPS + Galileo + BeiDou + GLONASS
Wide-Angle Camera	26 MP @ 20mm
Maximum Takeoff Altitude	4,000 m
Operating Temperature	–10°C to 40°C
Folded Dimensions	291 × 147 × 175 mm
Battery Capacity	4S 12,500 mAh



TMP5

Wingspan: 3m, Fuselage Length	1.62m
Maximum Takeoff Weight	21 kg
Payload Capacity	4 kg
Economical Cruise Speed	80km/h
Service Ceiling (Cruising Altitude)	7000m
Power System	ALL-Electric Endurance (Over 6 hours)
Airframe Material	Ultra-light carbon fiber



*Drone not included

T715 - Fixed-Wing Drone Dock (w/Intelli-AGV)

Dimensions	3.5m x 2.0m x 1.25m
Weight	820 kg
Features	Automatic recovery Automatic charging Automatic mission execution
Operating Temperature	–30°C to 50°C
Altitude Suitability	Adaptable to 7000m high-altitude environments



Tiki3D Lonehawk

Mobile Real-time 3D Mapping Solution



Tiki3D LoneHawk Real-Time Modeling System



Rapid Deployment

Lightweight and portable, quick assembly, operable by single person for fast response.



Simple Operation

Highly integrated software seamlessly connects flight planning, aerial photographing, data transmission, and 3D modeling with one-click operation.



Stable Transmission

High-speed data link with automatic ground station tracking. 15km line-of-sight* gigabit real-time transmission.



High Efficiency Results

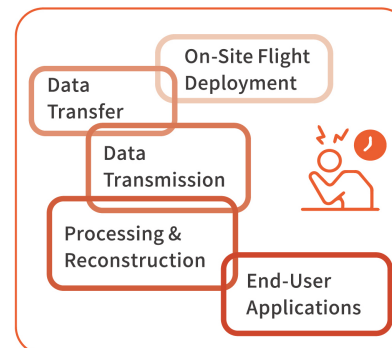
Works for any area size - simultaneous flying/transmitting/modeling. Full-resolution 3D models within 5 minutes upon data transmission completion.

* Line-of-sight or unobstructed conditions required.

The LoneHawk Mobile Real-Time Modeling System for solo operators deeply integrates drones, real-time transmission modules, reconstruction software, and high-performance hardware. It delivers an end-to-end solution for flight, live data streaming, and instant 3D reconstruction.



Challenges in Emergency Reality 3D Reconstruction



Traditional workflow



Key Features



Transmit Data Mid-Flight



Generate Models During Transmission



Lossless Detail and Quality 3D Output

- Automated
- User-Friendly
- Rapid Deployment



Fully autonomous real-time modeling

Tiki3D Lonehawk workflow

Hardware Agnostic One-stop Reality Modeling Software Platform

The Trusted Choice of Over 200,000 Professional GeoSpatial Experts.



www.tiki3d.com



Linked 



You 



WhatsApp/Mobile: +86 186 2121 8688



sales@tiki3d.com