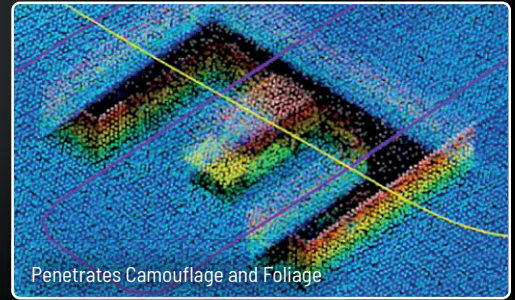




MOVIA™ Air Plus

Real-Time Perception for Autonomous Flight.

MicroVision's MOVIA™ Air Plus combines camera and lidar data to create a fully dimensioned 3D world in real time. The drone-optimized solution provides mapping, localization, and GNSS-denied navigation, including in environments where foliage or camouflage can limit visual sensing.

When it really counts: 3D Mapping in Real Time.



Instant Data

Streams map data to the ground in real time over low-bandwidth RF link.



Built for Autonomy

Onboard edge processing enables intelligent perception directly on the platform.



Day or Night Awareness

Reliable environmental perception regardless of lighting conditions.



GNSS-Denied Operations

Fuses lidar and IMU for mapping and navigation without GPS.

Product proof points

900 g

incl. low-light camera

25 W

Low power consumption

5 cm

Voxel resolution

Real-Time

Onboard edge processing

NDAA Compliant

US-assembled



Mission Ready. For Your Application.



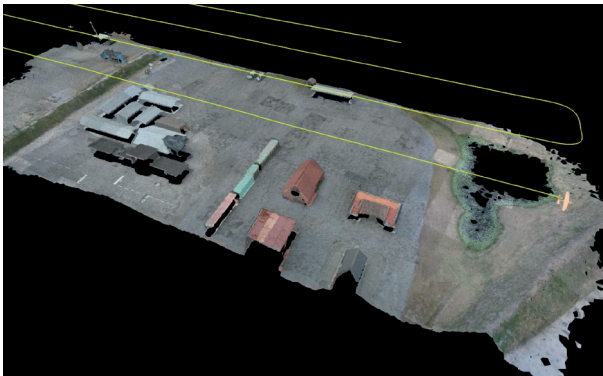
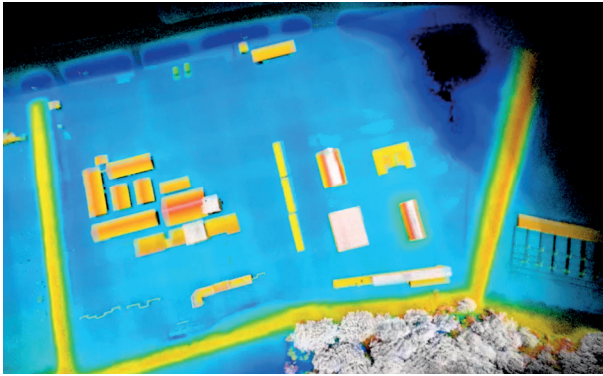
MOVIA™ Air Plus

Offers live 3D mapping and streaming of the operational environment for instantaneous tactical assessment.

- ▶ High-Resolution 3D Mapping
- ▶ Real-Time Data Streaming
- ▶ Sensor Fusion (lidar + camera)
- ▶ ATAK Compatible
- ▶ Lidar Inertial Odometry SLAM

MOVIA™ Air Plus Components:

- ▶ MOVIA™ L 60° Lidar
- ▶ Low-Light EO Sensor
- ▶ Jetson Orin Embedded Processor
- ▶ High-Precision IMU



Designed for a Broad Range of Applications

Defense

- ▶ Night Operations
- ▶ Reconnaissance
- ▶ Battle Damage Assessment
- ▶ GNSS-Denied Navigation
- ▶ Real-Time 3D Mapping

Commercial UAV

- ▶ Inspection
- ▶ Mining
- ▶ Infrastructure
- ▶ Construction

Package Delivery

- ▶ Landing Assistance
- ▶ Drop Zone Verification
- ▶ Obstacle Detection
- ▶ Route Mapping

Emergency Response

- ▶ Search & Rescue
- ▶ Wildfire
- ▶ Disaster Mapping
- ▶ Damage Assessment

Specifications & System Highlights

Technology / Features	MOVIA™ Air Plus
Mass	900 g
Dimensions (L x W x H)	96 x 106 x 97 mm
Typical Power / Voltage	25 W (10-50 V)
Data Interface	1000BASE-T Ethernet
Measurement Range	40 m
Accuracy	± 3 cm
Field of View (H x V)	60° x 37.5°
Map Resolution	0.05 to 1m voxels

Real-Time Mapping

3D data streamed in real time

Onboard Edge Processing

Full perception stack runs directly on the platform.

GNSS-Denied Navigation

Lidar odometry for high-rate position without GPS.

Sensor Fusion

Lidar and camera merged into a single 3D model.

Passive Mode

Low-emission operation for discreet missions.

Multi-Echo

Sees through foliage, dust and rain to true ground.