

ModalAI accelerates autonomy by providing innovators with robot and drone perception and communications systems that are manufactured in the U.S.A.

From home and business security to retail and government applications, our highly-integrated AI-powered modules empower a variety of industries to utilize aerial and ground autonomous navigations systems. We offer start-to-finish custom design services and plug-and-play computing platforms.

## **Seeker Product Brief**

The Seeker is the first micro-development drone that accelerates indoor and outdoor autonomy. The Seeker is powered by the new VOXL CAM which houses Blue UAS Framework components, VOXL and Flight Core, and SWaP-optimized sensors and payloads optimized for indoor and outdoor navigation.





## VOXL CAM Perception Engine

Built-in sensors to navigate from indoors to outdoors

- PMD time of flight (ToF) module for indoor depth mapping
- <u>Stereo image sensor pair</u> for outdoor depth mapping
- <u>Tracking image sensor</u> for visual inertial odometry (VIO) localization



## Autonomy

Open development platform with premier processing power

- Powered by <u>VOXL companion computer</u>
- Integrated Qualcomm Snapdragon 821 premium tier chipset onboard: 4 cores up to 2.4 GHz, 14nm, 4GB LPDDR4 PoP 1866MHz
- VOXL 4-in-1 ESC
- Open-source software: Open CV, ROS, Docker, PX4
- Optional 4G for cellular carrier-based networks



## SWaP-Optimized

Designed to maneuver small spaces

- 550g take-off weight
- 270mm diagonal SWaP-optimized carbon fiber airframe
- Compact, self-contained VOXL CAM camera mezzanine design
- 15 degree stationary camera viewing angle for improved VIO
- Tilted rotors optimized for smooth yaw navigation

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ModalAI's VOXL product line helps manufacturers and independent builders get to market quickly and affordably. For a free demo and to get started on your next project, email hello@modalai.com.



VOXL Seeker Development Drone



