

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
- [Stereo image sensor pair](#) for outdoor depth mapping
- [Tracking image sensor](#) for visual inertial odometry (VIO) localization



Autonomy

Open development platform with premier processing power

- Powered by [VOXL companion computer](#)
- 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



VOXL Seeker Development Drone

