

ModalAl® accelerates development of smaller, smarter and safer drones with SWAP-optimized Blue UAS Framework autopilots built in the U.S.A.

From home and business security to retail and government applications, the company's highly-integrated Al-powered modules empower a variety of industries to utilize aerial and ground autonomous navigation systems that communicate on 4G and 5G cellular networks.

## **VOXL CAM™ Product Brief**

The VOXL CAM is an all in one compute and perception engine that makes it easier to develop smaller, smarter, and safer drones, robots, and IoT devices with autonomy. The VOXL CAM condenses the computing power of 7 PCBs and 4 concurrent image sensors into one compact platform powered by Blue UAS Framework components, VOXL and Flight Core.





## Perception

Built-in sensors to safely navigate from indoors to outdoors

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



## **Autonomy**

Smart 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 SDK
- Open-source software: Open CV, ROS, Docker, PX4
- Optional 4G for cellular carrier-based networks



## Modularity

Designed to enable smaller, robots, objects, or wearables

- 57.5g total weight
- 100.32mm x 39.57mm x 17.47mm
- Self-contained camera mezzanine with onboard compute
- Easily mountable on drones, robots or wearable IoT devices