



HEXADYNE
CORPORATION

**LEADER IN
UAV SOLUTIONS**

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Fixed Wing VTOL UAV

Latitude Engineering, Cloud Cap's development partner, offers a new concept for long endurance **Vertical Takeoff and Landing (VTOL)**. Latitude has extensive experience integrating and supporting Cloud Cap's Piccolo Autopilot and TASE family of gimbal payloads. Latitude has integrated the Piccolo Autopilot and TASE payload into aircraft designs ranging in size from under 5 lbs to over 1300 lbs.

Utilizing the Piccolo Autopilot, Latitude has enabled a role-expanding capability for unmanned systems.

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The Hybrid Quadrotor (HQ) is **Latitude Engineering's** innovative airframe technology that combines the **VTOL capabilities** of a quadrotor and the efficiency, speed, and range of a normal fixed-wing aircraft.

The HQ offers significant advantages of existing "runway independent" unmanned air systems, including:

- Reduced operational footprint – no runway requirement, no approach obstacle issues, no launch/recovery infrastructure required.
- Portability – by eliminating launch and recovery equipment, there are significantly less items to transport and ship.
- Lower initial system cost – no launch and recovery infrastructure or expensive aircraft sensors required for VTOL capability.
- Reduced ongoing operational costs – fewer complex and cumbersome system elements to maintain, fewer people required to operate the system.

FOR MORE INFORMATION PLEASE CONTACT HEXADYNE CORPORATION **310.320.9783**

HEXADYNE is serving the rapidly growing UAV market in the international arenas such as Japan. We proudly represent and distribute the turnkey UAV solutions offered by World Industry Leaders:

Autopilot Flight Management System

Cloud Cap Technology is a world leader in UAV solutions. Cloud Cap's products are led by the **Piccolo Autopilot** flight management system. The Piccolo is the industry standard and is flying on more types of aircraft than any other autopilot. It provides a complete solution in autopilot, navigation, flight management, and ground control offering the highest performance available.

Stabilized Camera Gimbals

Cloud Cap Technology also offers the lowest SWaP (Size, Weight, and Power) stabilized camera payloads in the industry with the **TASE Stabilized Camera Gimbal** product line. TASE payloads come in weight ranges from 1kg to 3.5kg with a variety of cameras and lenses for daylight and nighttime operations.

As a part of UTC Aerospace Systems, Cloud Cap has the ability to offer complete ISR imaging solutions for the growing small UAV market.



TASE 400 SERIES



TASE 150/200 SERIES



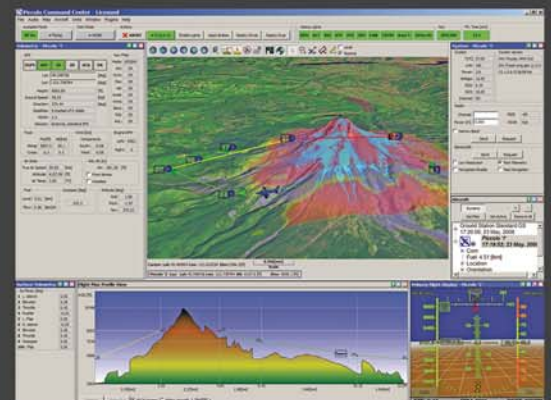
PICCOLO SL



PICCOLO II

Arcturus JUMP™ Fixed Wing VTOL UAV

The application of **JUMP technology** to the family of **Arcturus UAV** allows for precision VTOL while retaining its proven long-duration and large payload capacities. Fully autonomous flight control is gained through the time-proven **Cloud Cap Piccolo Autopilot** command center software coupled with **Latitude Engineering's Hybrid-Quadrotor technology**. Fully autonomous flights from launch to land are easily operated by a two man crew. Once on site, **JUMP™** can be set up and ready for flight in less than 15 minutes. Arcturus UAV is ready to equip **Cloud Cap TASE payloads**.



PICCOLO COMMAND CENTER

Onboard Video Processing

SightLine Applications delivers cutting-edge onboard video processing systems. The SLA family of products are DSP-based, embedded systems well-suited for airborne and ground video applications which demand high performance in small, light, low-power packages.

The **SLA-2000** provides a four channel, embedded video stabilization, object tracking, image enhancement system well-suited for airborne and ground ISR applications including:

- Multi-Camera Gimbals
- Fixed Cameras + Moving Vehicles
- Multi-Spectral Camera Configurations
- Perimeter Security
- Threat Assessment

Sightline Video Stabilization



Hexadyne

also offers additional airborne and ground systems and components including but not limited to Tracking Antennas, Rugged Ground Station, World's Smallest Transponders, GPS Receivers, Aero Vehicle Flap Actuators, Laser Altimeter Sensors depending on the customer needs.

Please let us help meet your unique UAV requirements.

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