

Autopilot Feature Options

Piccolo Autopilot Software Options

Piccolo autopilots are available in several different software configurations depending on the particular application.

- **Economy Feature Set** - Provides a lower cost Piccolo SL autopilot option. The feature set is ideal for University programs, target drones or for vehicles with simple payload support requirements.
- **Standard Feature Set** - Adds new support for servo driven pan-tilt cameras, Microair transponders, Iridium satellite communications and external magnetometers.
- **Laser Altimeter** - Provides accurate altitude information allowing the vehicle to perform a soft, flared landing.
- **RTK**- Improves the GPS performance by using RTK DGPS. This feature set enables precision landing on fixed runways or into nets, as well as more accurate position information.
- **RTK and Moving Platform Recovery** - Adds support of precision moving platform recovery, needed for shipboard, moving net, and other moving capture applications.
- **Helicopter Operations** - Includes autonomous take-off and landing, precision hover, and automated path following, along with autopilot assisted manual steering modes.

Feature Set						
Autopilot Advanced Features Supported	Economy Feature Set (SL Only)	Standard	Laser Altimeter Autoland	DGPS Autoland	DGPS Autoland + Moving Net Recovery	VTOL Vehicle Support
Advanced flight planning. Allows updates during flight, drag and drop, definition of lost com plan, and automatic landing plans	✓	✓	✓	✓	✓	✓
Supported by full Hardware-in-the-loop and software simulators	✓	✓	✓	✓	✓	✓
Support of TASE stabilized gimbal	✓	✓	✓	✓	✓	✓
Support for DGPS		✓	✓	✓	✓	✓
Gimbal stabilization control for servo based pan-tilt cameras		✓	✓	✓	✓	✓
Support of MicroAir transponders		✓	✓	✓	✓	✓
Support of Iridium satellite communications		✓	✓	✓	✓	✓
Support of external magnetometer to enable dead-reckoning in lost-GPS environment		✓	✓	✓	✓	✓
Support of Laser Altimeter Above Ground Sensor			✓	✓	✓	✓
Supports external Novatel RTK capable GPS for precision navigation				✓	✓	✓
Support of moving platform recovery using external Novatel RTK					✓	
Helicopter Support. Tech support provided by CCT partner GST.						✓