

News Release

New Virtual Cockpit 2.5 Software and Kestrel Firmware Released.

OREM, Utah. February 1, 2009 – Procerus® Technologies announced the release of Virtual Cockpit 2.5, accompanied by the release of Kestrel Firmware 8.3. “This new software set contains many exciting new features as well as addresses a handful of known issues”, said Todd Titensor, President and CEO of Procerus Technologies. According to Titensor, Procerus is very proactive in reaching out to customers and responding to their needs. In addition, it contains many exciting new features including:

Virtual Cockpit

- Quicker Autopilot updates - Much faster downloading of autopilot and configuration variables (almost 20 times faster).
- User configurable – Users can now set through software modem transmit power.
- New, easier-to-read communications status bar (Number of bars indicates signal strength and color of bars indicates packet loss).
- Mission Simulator - Embedded in the Virtual Cockpit is a powerful simulation and mission control tool called the Mission Simulator (MIS). This tool allows Virtual Cockpit operators to be trained without putting expensive hardware at risk. It also allows for multi-agent and single agent mission scenarios to be tested in the safety of a simulation environment built into the Virtual Cockpit.
- Added Waypoint Functionality - Routes can be constructed more easily with GoTo waypoints; Search areas can be automatically covered with waypoint paths with the simple drag of the mouse; Waypoints added more easily by Ctrl-left-clicking, greatly speeding up path planning.
- Map Maker Utility - New visual application for making maps for Virtual Cockpit. Interfaces with Google Earth and automatically generates map file. Launchable from Virtual Cockpit.
- Terrain Data Support - Support for SRTM and DTED Terrain Data built in to Virtual Cockpit. VC notifies aircraft of its local height above ground and reports this to user. Minimum HAG failsafe provided for aircraft.
- Flight Summary Recording - Virtual Cockpit now stores a flight log for each flight automatically for data retrieval and troubleshooting.
- New Virtual Cockpit HTML Help - HTML Help is now available in addition to all of Procerus' documentation manuals. Hitting F1 from any VC screen pulls up applicable help for that window.
- Enhanced Coordinate System Support - UTM, MGRS, and Lat/Lon fully supported. Improvements made to units display - Metric, English, and Nautical units now fully supported.
- Camera Controls - Change zoom, iris, gain, and shutter settings on the Sony Zoom Cameras.
- New Payload Control Screen - Control payloads such as the Aeries Laser Range Finder through the payload control window.
- Flaps Scrollbar - Adjust flaps in the right pull-out menu of Virtual Cockpit.
- Improved MSL Support - Switching between Height-Above-Launch and MSL Altitude better supported with waypoint checks implemented to prevent dangerous altitude settings.
- Video Channel Selection - Video channels can be tied to specific agents and automatically switched when a new agent is selected if a video switch is installed in the Commbx.

Kestrel Firmware 8.3

- New climb controller - Significantly improves climb and descent efficiency.
- Optional differential pressure sensor - External analog differential pressure sensors boost measurable airspeed range up to 250 mph
- TASE Gimbal Support - Ability to use the TASE gimbal with the same functionality provided by other supported gimbals including manual drive, gyro-stabilized mode, and GPS pointing modes.
- Aerius Photonics Laser Range Finder Support - Support added for the small, lightweight Aerius Photonics laser. Used as a ground sensor, the laser range finder adds terrain following capability as well as improved landing accuracy.
- Improved Landing Accuracy - Improved landing accuracy through vector path following and pitch feedforward capability.
- Flaps / Flaperons - User configurable for flaps and flaperons
- Landing Gear Support - Landing gear retracts and nose wheel control
- Greater MSL Support - Improved ability to incorporate and use MSL altitude or Height Above Launch.
- Freewave MM2, P511EX008 and Microhard N130F, N920f Modem Support – Added modem support high speed and military bands.
- Deep Stall Capability - Support for deep stall landings and user-triggered deep stall with fixed pitch capability.
- More Servo Channels - Support for up to 12 PWM channels using the Servo Expansion Board.
- Waypoint Servo Capability - Automatically trigger a servo when the aircraft reaches a specified waypoint.
- More Auxiliary Servo Functionality - payload dropping, parachute deployment, gimbal bay doors.
- Catapult Launch Capability - Aircraft can now be configured to turn on throttle automatically during takeoff when an acceleration threshold is reached. This allows for safe, autonomous catapult launches.
- Safe UAV Mode - throttle is guaranteed to be off and servos undergo less stress in this mode intended for use on the ground or in transport.

Procerus Technologies

Procerus Technologies, makers of the world's smallest, lightest (16.7 grams), full-featured autopilot for mini and micro UAVs. Procerus is focused on intelligent, autonomous guidance and control systems for small unmanned aircraft as well as enhancing the overall user experience and utility of micro UAVs. Procerus is also a leading developer and manufacturer of ground control software, the Virtual Cockpit, and associated hardware, as well OnPoint™ Targeting. www.procerusuav.com

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