

V-PRO

Vehicle Predictive Roll-Over System

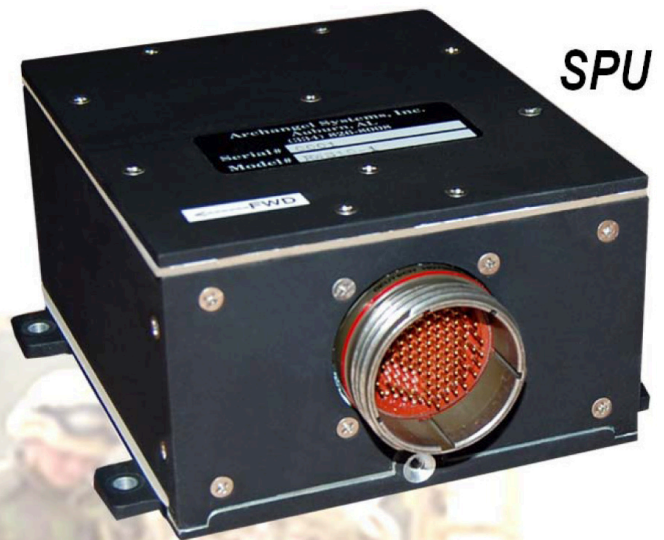
FOCUS ON THE FIGHT

V-PRO Three Steps to Rollover Mitigation

1. Continuously measure vehicle dynamics
2. Compute rollover risk 100 times a second
3. Send rollover risk cues to all LTV crew

FEATURES & BENEFITS

- Early warning of LTV rollover risk
- Visual and audible crew alerts
- Intercom cues in development
- Simple 2-box solution
 - SPU – Sensor Predictor Unit
Remote mount
 - DAU – Display Annunciator Unit
Dashboard mount
- NVG compatible display with dimmer control
- Flight-critical aviation heritage
- MIL-STD 810 compliant
- Strict software development processes
- Single supply voltage (24 V nominal)
- MIL-STD 38999 filtered connector
- Preloaded software for multiple LTV variants
- LTV variant selected by cable strapping
- Suitable for factory and after-factory installations
- Fully exportable outside US



SPU



DAU

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Archangel Systems, Inc.

V-PRO leverages Archangel Systems expertise in inertial sensor systems for critical missions including hardware, software and hardened MIL-STD 810 enclosures.

Archangel's products include an FAA certified ADAHRS used by the Erickson Aircrane S64-F helicopter in firefighting and heavy-lift construction applications.

Archangel has 10 years of experience in predictive rollover algorithms. V-PRO merges these algorithms with our aviation heritage, yielding a low cost rollover mitigation solution.

For further details visit our website at www.archangel.com



The Fredericks Company

For over 75 years, The Fredericks Company has been partnering with commercial and military customers to provide custom sensors and instrumentation.

As a leading designer and manufacturer of tilt sensors and inclinometers, our next generation of products include indication of tilt, inclination and inertial measurement systems.

Our tilt products are used in a variety of applications from safety switches in scissor lifts, tilt sensing for mobile satellites and robust inclination assemblies of construction vehicles.

For further details visit our website at www.frederickscom.com



SPECIFICATIONS

Parameter	Unit	Value	Comments
Supply Voltage	V	16 / 24 / 36	Minimum / Nominal / Maximum
Total Power	W	4.0	DAU power supplied by SPU
Predictive Lead Time	ms	500	Without CAN bus access
Size	inches	4.25 x 5.25 x 3 3.4 x 2.8	SPU width x depth x height DAU diameter x depth
Weight	lbs	2.1 / 0.9 / 3.0	SPU / DAU / Total
Operational Temperature	°C	-40 to +70	Audible alarm derated beyond -20 °C and 60 °C
Storage Temperature	°C	-55 to +125	
Rollover Risk Visual Cues	%	Green / Yellow / Red	< 50 / 50 to 70 / 80 to 100