

## UTILITY SERIES – U520



### System Features

- 4 or 5-axis advanced fiber optic gyro-stabilization
- Interchange cameras, lenses, and sensors in less than 30 minutes
- Fully upgradeable as gimbal, camera, lens, and sensor technologies evolve
- Geo-pointing with moving map interface option
- Look-down capability
- High-speed fiber optic video data transfer
- No ITAR or EAR export restrictions
- Modularized to ship as excess baggage (<70lbs/32kg per box)
- MIL-STD-810F power filters with reverse polarity protection
- Independent Structural Analysis IAW FAA 14 CFR 23.337, 25.337, 27.337, & 29.337 at 200 knots
- Engineered/Manufactured to DO-160G standards - not certified
- Platform designed for both standard and inverted use
- Wireless capability option
- Metadata outputs (lens, camera, & GPS functions)
- Internal and external INS options
- Electro-mechanical gimbal stow mechanism
- Compatible with existing air and ground mounts
- Standard 2-year warranty and 24/7/365 customer service

### System Specs

#### Gimbal Performance

- 4 or 5-axis advanced fiber optic gyro-stabilization
- Azimuth: 360° continuous
- Elevation: +30° to -205° from horizontal
- Roll: +/- 90° (steerable/stabilized)
- Gimbal slew rate: 0-150°/second
- Max operational airspeed: 200 knots - certified to FAA 14CFR requirements, increased airspeeds possible

#### Interface

Control: RS-232, RS-422, or ethernet

#### Electrical

VIN: 18-33 VDC  
Power: 15 amps max draw at 28 VDC

#### Dimensions

Gimbal width: 20 inches (508 mm)  
Gimbal height: 23.5 inches (597 mm)  
Snout length: 0-6 inches (0-152 mm)  
Cable set length: 20 - 100 feet

#### Weight

Platform: 85 lbs (38.5 kg) + payload  
Laptop control unit: 7 lbs (3.2 kg)  
Auxiliary junction unit: payload specific  
Cable set: 8 lbs (3.6 kg)

#### Environmental

Operating temperature: -4° to +122°F (-20° to +50°C)  
Sealed system for airborne, ground, and marine applications

#### Interchangeable Camera Options

Still Cameras: Phase One, Hasselblad, Canon, Nikon  
EO Cameras: WAMI Payloads, Red Epic/Mysterium/Dragon  
Specialty Cameras: Corona, Hyperspectral  
\*Other cameras available upon request

#### Interchangeable Lens Options

Still Lenses: Schneider-Kreuznach, Zeiss, Canon  
HD Lenses: Fujinon and Canon  
\*Other lenses available upon request

#### Recommended Helicopter Mount Configuration

Airfilm AS 350/355 AFSP Nose Mount  
Airfilm Bell 206/206L/407 Nose Camera Mount  
Airfilm 6-axis passive vibration isolator  
\*Compatible with various other mounts

#### Recommended Vehicle/Marine Mount Configuration

Airfilm Unimount  
Airfilm 6-axis passive vibration isolator

\*Specifications are subject to change