

HIGH PERFORMANCE GIMBAL PURPOSE BUILT FOR GROUP 3 UAS



HD80-MNV

ELECTRICAL

- Control over Ethernet or serial
- 25W average, 100W peak power consumption
- 10V to 30V input voltage



CLASS LEADING SWAP-C

Highest performing, lightest weight gimbal in 8" size



ITAR FREE

Non-controlled configurations



HD DIGITAL VIDEO

Fully digital, h.264/h.265 video pipeline



SUPERIOR GEOLOCATION

Less than 6m accuracy onboard



EMBEDDED VIDEO PROCESSING

Electronic stabilization and scene tracking



MISSION PROVEN

TRL 9 for military and commercial applications

TRACKING

- Onboard scene tracking
- Onboard geo tracking
- Onboard target tracking

GEOLOCATION

- IMU co-located with cameras
- 0.5° (typical) total system accuracy
- Real time geointerpointing and geolocation
- Onboard GPS receiver or platform provided GPS compatible

MECHANICAL

- Pan: 360° Continuous
- VV Tilt: -80° to 20°
- MNV Tilt: -80° to 75°
- MV-600 Tilt: -80° to 80°
- 0.02° encoder resolution

SOFTWARE

- Onboard h.264/h.265 compression with adjustable bitrate
- MISB-compliant output including embedded KLV metadata
- Field upgradeable software
- Onboard electronic stabilization
- Ethernet and analog video

CAMERA CONFIGURATIONS

*Options available

CONFIGURATION	WEIGHT	DIMS (W X H)	CAMERAS	FOV/DFOV	ZOOM (O+D)	LASER*
HD80-VV	4300g 9.5lbs	191 x 276mm 7.5 x 10.9in	Visible 1280 x 720 Visible 1280 x 720	47.7° - 1.7° - 0.4° 0.4° - 0.1°	112X (28x+4x) 4X (1x+4x)	
HD80-MNV	5370g 11.8lbs	191 x 276mm 7.5 x 10.9in	MWIR 640 x 512 NIR 1920 x 1080 Visible 1920 x 1080	21.7° - 2.2° - 1.1° 4.5° - 16° 40.4° - 1.8° - 0.3°	20X (10x+2x) 2X (1x+2x) 132X (22x+6x)	
HD80-MV-600	4900 g 10.8lbs	191 x 281mm 7.5 x 11in	Visible 1280 x 720 MWIR 640 x 512	46.8° - 4.9° - 1.2° 18.2° - 0.9° - 0.5°	40X (10x+4x) 40X (20x+2x)	LP