trillium

HD59

INDUSTRY LEADING GIMBAL SYSTEMS FOR MID-SIZED UAS & LAUNCHED EFFECTS

HD59-MLVS

ENVIRONMENTALLY SEALED
IP65 rated for protection against dust and water

SUPERIOR SWAP-C
Optimized for size, weight, power, and cost efficiency

ITAR FREE
Non-controlled configurations available

SUPERIOR OBJECT ID
Delivers the best EO identification range in its class

INTEGRATED AI PROCESSING
Instant real-time detections

ROBUST DESIGN
Capable of withstanding high impact forces

TRACKING

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

GEOLOCATION

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

ELECTRICAL

- Control over Ethernet or serial
- 20W average, 100W peak power consumption (LD)
- 24VDC regulated input, external regulation accepting 10V to 30V available

MECHANICAL

- Pan: 360° Continuous
- Tilt: -80° to 35°
- 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 video

CAMERA CONFIGURATIONS

*Options available

CONFIGURATION	WEIGHT	DIMS (W X H)	CAMERAS	FOV/DFOV	ZOOM (O+D)	LASER*
HD59-LLVV	1550g 3.5lbs	147 x 202mm 5.8 x 7.9in	LWIR 640 x 512 LWIR 640 x 512 Visible 1920 x 1080	29° - 5.9° - 3° 32° - 16° 45° - 1.5° - 0.3°	10X (5x+2x) 2X (1x+2x) 180X (30x+6x)	LP LRF
HD59-MVV	1900g 4.2lbs	147 x 202mm 5.8 x 7.9in	MWIR 640 x 512 Visible 1920 x 1080	21.7° - 2.2° - 1.1° 45° - 1.5° - 0.3°	20X (10x+2x) 180X (30x+6x)	LP LRF
HD59-MLVV	1900g 4.2lbs	147 x 202mm 5.8 x 7.9in	MWIR 640 x 512 LWIR 640 x 512 Visible 1920 x 1080	21.7° - 2.2° - 1.1° 32° - 16° 45° - 1.5° - 0.3°	20X (10x+2x) 2X (1x+2x) 180X (30x+6x)	LP LRF
HD59-MLVS	2050g 4.3lbs	147 x 202mm 5.8 x 7.9in	MWIR 1280 x 1024 LWIR 640 x 512 Visible 1920 x 1080 SWIR 640 x 512	5.6° - 1.4° 18.2° - 9.1° 16.9° - 3.5° - 0.6° 5.7° - 2.9°	4X (1x+4x) 2X (1x+2x) 30X (5x+6x) 2X (1x+2x)	LP LRF LD

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