



# HD55

## MARKET LEADING LIGHTWEIGHT EO/IR SYSTEMS FOR GROUP 2 UAS



**HD55-LV-CZ**

### ELECTRICAL

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



#### SUPERIOR OPTICS

Increased IR sensitivity provides sharper imagery



#### ITAR FREE

Non-controlled configurations



#### HD DIGITAL VIDEO

Fully digital, h.264/.265-compliant 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 geopointing and geolocation
- Onboard GPS receiver or platform provided GPS compatible

### MECHANICAL

- Pan: 360° Continuous
- MV & VV Tilt: -80° to 40°
- LV Tilt: -80° to 65°
- 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
HD55-VV	1275g 2.8lbs	140 x 199mm 5.5 x 7.8in	Visible 1920 x 1080 Visible 1280 x 720	40.4° - 1.8° - 0.3° 41.3° - 15.2° - 3.8°	132X (22x+6x) 12X (3x+4x)	
HD55-LVV-CZ	1550 3.4lbs	140 x 208mm 5.5 x 8.2in	Visible 1280 x 720 Visible 1280 x 720 LWIR 640 x 512	47.7° - 1.7° - 0.4° 41.3° - 15.2° - 3.8° 29° - 5.9° - 3°	112X (28x+4x) 12X (3x+4x) 10X (5x+2x)	LP LI
HD55-MV	1850g 4.1lbs	140 x 199mm 5.5 x 7.8in	Visible 1280 x 720 MWIR 640 x 512	13.7° - 4.6° - 1.2° 21.7° - 2.2° - 1.1°	12X (3x+4x) 20X (10x+2x)	LP LRF LD