

TASE™ imaging systems



A LEADING SOURCE OF REAL-TIME INTELLIGENCE

Over 500,000 operational hours of advanced, reliable
imaging for warfighters and first responders



Collins Aerospace

SUPERIOR PERFORMANCE, LOWEST SIZE WEIGHT AND POWER (SWaP)



TASE™ 250 LWIR

Compact lightweight EO/LWIR

ENVIRONMENTAL

Mechanical

Diameter: 5.5 inches (139.7 mm)

Height: 7.5 inches (190.5 mm)

Weight: <4.4 lbs (<1.99 kg)

Electrical

VIN: 14 - 30 volts

Power: 25 W (average) 100 W (max)

PERFORMANCE

Payload performance

Payload stabilization: 2-axis

Video out

- (H.264): 640 x 480 30 Hz

- with embedded metadata

Long wave IR camera

Dual field of view lens

HFOV: 11° - 4.4°

Resolution: 640 x 480

Daylight camera

Stepped digital zoom: 4x

HFOV: 14.5° - 2.5°

Laser pointer¹ (optional)

Class IIIb laser¹

830 nm (NVG band)

130 mW max



TASE™ 400 DXR

Extended range daylight imaging

Mechanical

Diameter: 7 inches (177.8 mm)
Height: 10.5 inches (266.7 mm)
Weight: 8.25 lbs (3.74kg)

Electrical

VIN: 10 - 30 volts
Power: 25 W (average) 100 W (max)



TASE™ 400 BLK II

Advanced day/night imaging

Mechanical

Diameter: 7 inches (177.8 mm)
Height: 10.5 inches (266.7 mm)
Weight: 9.0 lbs. (4.08kg)

Electrical

VIN: 10 - 30 volts
Power: 35 W (average) 100 W (max)



TASE™ 500 HD

Advanced multi-spectral imaging

Mechanical

Diameter: 10.25 inches (260.35 mm)
Height: 14.75 inches (374.65 mm)
Unmanned weight: 33 lbs (15 kg)
Manned weight: 37 lbs (17 kg)
Color: black and gray

Electrical

VIN: 18 - 30 volts
Power: 95 W (average) 125 W (max)

Payload performance

Payload stabilization: 2-axis

Video out

- SD: NTSC or PAL
- HD (H.264): 720P 30 Hz
- with embedded metadata

Daylight Camera 1

Continuous optical zoom: 36x
HFOV: 57.8° - 1.7° (SD)

Daylight camera 2

125x fixed zoom
HFOV: 0.46° (SD) / 0.92° (HD)

Payload performance

Payload stabilization: 2-axis

Video out

- NTSC, HD-SDI
- H.264, H.265
- with embedded KLV metadata
- Adjustable bit rate

Mid wave IR camera

Continuous optical zoom: 10x
Digital zoom: 24 and 4x
Wavelength: 3 to 5 µm
Resolution: 640 x 512
HFOV: 29° - 1.9° continuous (SD)

Daylight camera

Continuous optical zoom: 29x
HFOV: 57.8° - 1.7° (SD)

Laser illuminator (narrow beam)

Class IIIb laser¹
830 nm (NVG band)
150 mW max

Payload performance

Payload stabilization: 4-axis

Video out

- HD (H.264): 720P 30Hz
- HD-SDI: 720P 30Hz
- with embedded KLV metadata

Mid wave IR camera

Continuous optical zoom: 6.3x
Continuous digital zoom: 4x
Wavelength: 3 to 5 µm
Resolution: 1280 x 720
HFOV: 17.° - 3.0° continuous

Daylight camera

Continuous optical zoom: 18x
HFOV: 42.3° - 2.3°

Daylight spotter

Fixed spotter lens
Resolution: 1280 x 720
HFOV: 0.9°

Laser pointer¹ (optional)

Class IIIb laser¹
830 nm (NVG band), 130 mW max

ADVANCED IMAGING CAPABILITY

Our payloads collect full motion video utilizing multiple sensors in support of intelligence operations. These systems provide solutions to complex tactical situations through the use of high resolution and unique imaging solutions. When size, weight and power are priorities, TASE™ Imaging Systems is the leader in creating sound solutions in demanding environments.

INDUSTRY LEADING SIZE WEIGHT AND POWER (SWaP)

The TASE series of stabilized camera payloads are small, light-weight and robust. Less weight and minimal power requirements translate into increased useful load, endurance and mission performance.

ADVANCED COMMAND AND CONTROL SOFTWARE

ViewPoint is an advanced user interface software application that displays video and command/control for TASE payloads. Key features include: video recording and playback with associated payload metadata, real-time display of video and metadata for operational awareness, camera control via joystick, keyboard and/or touchscreen.

Object tracking enables the TASE payload to autonomously track selected objects such as people, cars, trucks or other objects moving in the scene based on image match within a user adjustable target box.

Moving map displays location and payload sensor footprint on the ground. Satellite, streets and maps, or any user-supplied maps are supported.

PathTrack autonomously points the payload toward pre-loaded GPS coordinates along a path. PathTrack auto-detects aircraft heading and picks up the path for tracking.

GeoStamp enables the operator to designate areas of interest with the click of a button. The event is tagged on a map, a still image is captured and the location is logged. This feature is invaluable when a still-image of an object/feature is needed for later reference.



To learn more, go to
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TASE PAYLOAD KEY FEATURES

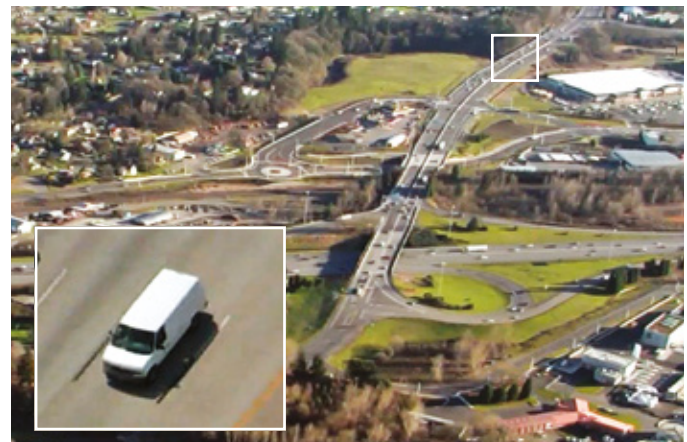
- Onboard GPS/INS - no external IMU needed for geo-pointing
- Common operator interface across TASE family of systems
- Environmentally sealed
- Onboard image processing capable of target tracking, scene steering and electronic image stabilization
- Laser pointer, laser rangefinder options (selected payloads only)



Advanced Day / Night Imaging



High Definition Daylight Imaging



Extended and Long Range Imaging

