TASE400 / TASE500 Imaging Systems

The Preferred Tactical ISR Solution

UTC Aerospace Systems

TASE Imaging Systems

Superior Performance, Lowest Size Weight and Power (SWaP), Best Value

DAY LIGHT

TASE310

High Definition Daylight Imaging

Payload Performance

Payload Stabilization: 2-axis

Video Out

- SD: NTSC or PAL
- HD-SDI: 720P 30Hz

HD Daylight Camera

Continuous Optical Zoom: 30x

Resolution: 1280 x 720

HFOV: 39.7°- 1.4°

Electrical

VIN: 10 - 30 Volts

Power: 20W (average) 100W (max)

Mechanical

Diameter: 7 inches (177.8 mm)

Height: 10.5 inches (266.7 mm)

Weight: 7.0 lbs (3.17 kg)

Day NIIRS 7.1 @ 4242 ft

TASE400DXR

Extended Range Daylight Imaging

Payload Performance

Payload Stabilization: 2-axis

Video Out

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

Daylight Camera 1

Continuous Optical Zoom: 31x

HFOV: 55.7°- 1.94°

Daylight Camera 2

164x fixed zoom

HFOV: 0.46° (SD) / 0.92° (HD)

Electrical

VIN: 10 - 30 Volts

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

Mechanical

Diameter: 7 inches (177.8 mm)

Height: 10.5 inches (266.7 mm)

Weight: 8.25 lbs (3.74kg)

Day NIIRS 9 @ 4242 ft

DAY & NIGHT

TASE350

Daylight HD / LWIR Night Imaging

Payload Performance

Payload Stabilization: 2-axis

Video Out

- SD: NTSC or PAL
- HD-SDI: 720P 30Hz

Long Wave IR Camera

Dual field of view lens

HFOV: 15.5° - 6.2°

Resolution: 640 x 480

Daylight Camera

Continuous Optical Zoom: 31x

HFOV: 55.7°- 1.94°

HD Daylight Camera (optional)

Continuous Optical Zoom: 30x

Resolution: 1280 x 720

HFOV: 39.7°- 1.4°

Laser Rangefinder (optional)

Class I Eye-safe, 1550 nm, 4km range

Laser Illuminator (optional) (Narrow Beam)[1]

Class IIIb laser[1]

830 nm (NVG band)

150 mW max

Electrical

VIN: 10 - 30 Volts

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

Mechanical

Diameter: 7 inches (177.8 mm)

Height: 10.5 inches (266.7 mm)

Weight: 7.25 lbs (3.2 kg)

Day NIIRS 7.1 @ 4242 ft

Night NIIRS 6.2 @ 4242 ft

TASE400

Advanced Day / Night Imaging

Payload Performance

Payload Stabilization: 2-axis

Video Out

- SD: NTSC or PAL

Mid Wave IR Camera

Continuous Optical Zoom: 10x

Continuous Digital Zoom: 4x

Wavelength: 3 to 5 µm

Resolution: 640 x 512

HFOV: 22° - 2.2 ° continuous

Daylight Camera

Continuous Optical Zoom: 31x

HFOV: 55.7°- 1.94°

Laser Rangefinder (optional)

Class I Eye-safe

1550 nm

4km range

Laser Illuminator (optional) (Narrow Beam)[1]

Class IIIb laser[1]

830 nm (NVG band)

150 mW max

Electrical

VIN: 10 - 30 Volts

Power: 35W (average) 100W (max)

Mechanical

Diameter: 7 inches (177.8 mm)

Height: 10.5 inches (266.7 mm)

Weight: 8.0 lbs (3.62kg)

Day NIIRS 7.1 @ 4242 ft

Night NIIRS 7.1 @ 4242 ft

Cloud Cap TECHNOLOGY

TASE400HD

Daylight HD with Night Imaging

Payload Performance

Payload Stabilization: 2-axis

Video Out

- SD: NTSC or PAL
- HD-SDI: 720P 30Hz

Mid Wave IR Camera

Continuous Optical Zoom: 10x

Continuous Digital Zoom: 4x

Wavelength: 3 to 5 µm

Resolution: 640 x 512

HFOV: 22° - 2.2 ° continuous

HD Daylight Camera

Continuous Optical Zoom: 30x

Resolution: 1280 x 720

HFOV: 39.7°- 1.4°

Laser Illuminator (optional)
(Narrow Beam)[1]

Class IIIb laser[1]

830 nm (NVG band)

150 mW max

Electrical

VIN: 10 - 30 Volts

Power: 35W (average) 100W (max)

Mechanical

Diameter: 7 inches (177.8 mm)

Height: 10.5 inches (266.7 mm)

Weight: 8.0 lbs (3.62kg)

Day NIIRS 7.0 @ 4242 ft
Night NIIRS 7.1 @ 4242 ft

TASE400L

Advanced Day / Night Imaging

Payload Performance

Payload Stabilization: 2-axis

Video Out

- SD: NTSC or PAL

Mid Wave IR Camera

Continuous Optical Zoom: 10x

Continuous Digital Zoom: 4x

Wavelength: 3 to 5 µm

Resolution: 640 x 512

HFOV: 22° - 2.2 ° continuous

Long Wave IR Camera

HFOV: 17.7°

Resolution: 640 x 480

Video Out: NTSC or PAL

Daylight Camera

Continuous Optical Zoom: 31x

HFOV: 55.7°- 1.94°

Laser Illuminator (optional)
(Narrow Beam)[1]

Class IIIb laser[1]

830 nm (NVG band)

150 mW max

Electrical

VIN: 10 - 30 Volts

Power: 35W (average) 100W (max)

Mechanical

Diameter: 7 inches (177.8 mm)

Height: 10.5 inches (266.7 mm)

Weight: 8.4 lbs (3.8kg)

Day NIIRS 7.1 @ 4242 ft
Night NIIRS 7.1 @ 4242 ft

TASE400LRS

Long Range Day / Night Imaging

Payload Performance

Payload Stabilization: 2-axis

Video Out

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

Mid Wave IR Camera

Continuous Optical Zoom: 10x

Continuous Digital Zoom: 4x

Wavelength: 3 to 5 µm

Resolution: 640 x 512

HFOV: 22° - 2.2 ° continuous

Daylight Camera

Continuous Optical Zoom: 31x

HFOV: 55.7°- 1.94°

Spotter Camera

53x fixed zoom

HFOV: 1.06° (SD) / 2.1° (HD)

Laser Illuminator (optional)
(Narrow Beam)[1]

Class IIIb laser[1]

830 nm (NVG band)

150 mW max

Electrical

VIN: 10 - 30 Volts

Power: 35W (average) 100W (max)

Mechanical

Diameter: 7 inches (177.8 mm)

Height: 10.5 inches (266.7 mm)

Weight: 8.9 lbs (4.04kg)

Day NIIRS 7.8 @ 4242 ft
Night NIIRS 7.1 @ 4242 ft

4-AXIS, DAY & NIGHT

TASE500

Advanced Multi-Spectral Imaging

Payload Performance

Payload Stabilization: 4-axis

Video Out

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

HD Mid Wave IR Camera

Continuous Optical Zoom: 7.3x

Continuous Digital Zoom: 4x

Wavelength: 3 to 5 µm

Resolution: 1280 x 1020

HFOV: 30° - 3.0 ° continuous

HD Daylight Camera

Continuous Optical Zoom: 30x

HFOV: 30.0°- 0.90°

HD SWIR Camera (optional)

Laser Rangefinder (optional)

Class I Eye-safe, 1550 nm

Up to 10km

Laser Illuminator (optional)
(Narrow Beam)[1]

Class IIIb laser[1]

830 nm (NVG band)

150 mW max

Electrical

VIN: 12 - 30 Volts

Power: 75W (average) 125W (max)

Mechanical

Diameter: 10.2 inches (259.08 mm)

Height: 14.25 inches (361.9 mm)

Weight: 30 lbs (13.60 kg)

Day / Night NIIRS ratings
are payload dependent

Cloud Cap Technology Advanced Imaging Capability

The TASE series of stabilized camera payloads are small, light-weight, and robust with features previously only available on larger, more expensive turrets.

Thermal (with Longwave and Midwave) imagery is ideal for night surveillance.

TASE camera payloads provide unmatched image quality over similar camera systems in this class.

Applications include reconnaissance and surveillance (law enforcement and aerial firefighting), aerial surveying, infrastructure inspection (pipeline and utility), mapping, surface vehicles and atmospheric sciences.

Industry Leading Size Weight and Power(SWaP)

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 The TASE payload autonomously tracks 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 ground. Satellite, streets and maps, or any user supplied map supported.

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

Geo-Stamp allows 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.

TASE Payload Key Features

Onboard GPS/INS - no external IMU needed for geo-pointing

Fiber Optic Gyro (FOG) stabilization

Common operator interface across TASE family

Environmentally sealed

Onboard image processing capable of target tracking, scene steering and electronic image stabilization

Laser Illuminator (Narrow Beam), Laser rangefinder options (selected payloads only)

ViewPoint interactive map displays location and payload sensor footprint on ground. Satellite, streets and maps, or any user supplied map supported.

Advanced Day / Night Imaging

High Definition Daylight Imaging

Extended and Long Range Imaging

UTC Aerospace Systems

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