



Airborne Law Enforcement TASE Imaging Systems





TASE500

Advanced multi-spectral imaging system featuring 4 axis stabilization, all-HD color, low light and MWIR sensors.

HD Imaging performance gives operators improved situational awareness and superior image quality

All-Digital Imaging Chain for maximizing processing capability and reducing complexity with consistent image quality across video displays

Onboard Video Enhancements for customizable look and feel (overlays) allows operator to be more efficient and design output for your mission





High Definition - MWIR



High Definition - MWIR

TASE Advanced Multi-Spectral Imaging Systems

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

Continuous Digital Zoom: 4x

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) Class IIIb laser

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)

HD Imaging Performance

- HD solution for improved image quality and clarity
- Full digital imaging enables advanced post processing and third party exploitation tools and no compression artifacts
- Fourth Generation HD-MWIR imager for superior IR imaging at long ranges, including local area processing and noise reduction filter
- Precision optics, shared aperture between EO/SWIR imagers for maximum image sharpness and clarity
- Shortwave Infrared (SWIR) imaging through smoke, dust and haze environments where other imagers are ineffective
- Integrated GPS/INS provide accurate target coordinates and aircraft location

Best Value

- Lowest cost with fully integrated features for best value in the industry. Less impact to air support budget without compromising quality or performance



TASE400

Mission Centric Advanced Imaging Systems

Battle proven advanced imaging performance gives operators improved situational awareness and superior imagery

All-Digital Imaging Chain for maximizing processing capability, reducing cost and complexity with consistent image quality across video displays

Onboard Video Enhancements for customizable look and feel (overlays) allows operator to be more efficient and design output for your mission

Low weight, low cost with fully integrated features





High Definition - Daylight



High Definition - Spotter

Superior Imaging Performance

- HD/SD options for excellent image quality and clarity
- Integrated GPS/INS provides accurate target coordinates and aircraft location
- Full digital imaging enables advanced post processing, third party exploitation tools, and no compression artifacts

Designed for the Mission

- Cloud Cap Technology TASE Imaging systems are designed and delivered as a complete, fully integrated system. Our solutions are packed with the features and functionality required by today's Airborne Law Enforcement Mission – delivering advanced (yet simple) functionality, superior video processing, and mission-centric features

Best Value

- Lowest cost with fully integrated features for best value in the industry. Less impact to air support budget without compromising quality or performance

TASE Day & Night Imaging Systems

TASE 350
Daylight HD and LWIR
Night Imaging

TASE 400
Advanced Day and MWIR
Night Imaging

TASE400 HD
Daylight HD with MWIR
Night Imaging

TASE400 LRS
Long Range Day and
MWIR Night Imaging

TASE Daylight Imaging Systems

TASE310
High Definition Daylight Imaging

TASE400 DXR
Extended Range Daylight Imaging

10,000 Ft.



TASE500 HD

Advanced Multi-Spectral
10" diameter, 4 axis stabilized imaging platform, built in GPS/INS and tri band, full digital HD imagers (EO/MWIR) for day, night and obscurant penetration with a total system weight of under 30 lbs.

7,000 Ft.



TASE400 LRS

Long Range Day and MWIR Night Imaging
7" diameter, 2 axis stabilized, High Definition EO spotter and SD MWIR with continuous zoom integrated GPS/INS and onboard video processing with H.264 digital video output



TASE400 DXR

Extended Range Daylight Imaging
7" diameter, 2 axis stabilized, High Definition EO spotter and SD zoomable EO with integrated GPS/INS and onboard video processing with H.264 digital video output

4,000 Ft.



TASE400 HD

Daylight HD with Night MWIR Imaging
7" diameter, 2 axis stabilized, High Definition EO and SD MWIR with continuous zoom, integrated GPS/INS and onboard video processing

3,000 Ft.



TASE310 HD

High Definition Daylight Imaging
7" diameter, 2 axis stabilized, SD EO or HD EO with integrated GPS/INS, onboard video processing

Integrated Solution with Mission Centric Features



IR Imagery



ViewPoint UI - Moving Map

Advanced Functionality & Video Processing

All TASE imaging systems include advanced onboard Video Processing (VPS) which include several mission-critical functions:

Object-Tracking The TASE camera will autonomously track selected objects such as moving vehicles or persons within a user adjustable track-box. Object-Tracking can be enabled via touch-screen or hand-controller commands

Scene-Steering The TASE camera will automatically follow the selected image "scene", greatly reducing the camera operator's workload

Geo-Point Operators can command the TASE camera to point to a specific GPS coordinate on the ground, such as an intersection or point on a map

Picture-in Picture TASE systems can display video from multiple cameras simultaneously in a user-configurable picture-in-picture, allowing operators to view daylight and thermal imagery, or narrow and wide fields of view, at the same time

Custom Video Overlays TASE imagery includes selectable user-defined overlays including aircraft and target coordinates, target range, camera field of view, date and time, and north indicator, all with user-selectable font size and color

Included with all TASE imaging systems is the Viewpoint User-Interface Tactical PED (Processing, Exploitation, and Dissemination) Software. Viewpoint is a feature-rich UI enabling improved operator efficiency and simplified camera system operations. Some key features delivered within Viewpoint include:

Simplified & Flexible TASE Camera Control Via hand-controller, touchscreen or keyboard commands

Integrated DVR Includes play back and video export tool

Integrated Full Featured Moving Map Customizable map layers, interest-points, and 3-dimensional georeferenced video-on-map

Snapshot & Geo-Stamp Allows the operator to easily designate an item of interest, with the item location noted on the map and a snapshot image saved in a separate recording file



Cloud Cap Technology products are the Preferred Tactical ISR Solution. Our TASE Imaging Systems provide superior image quality and offer the lowest size, weight and power (SWaP) requirement, in the industry. Proven in the harshest environments our payloads have flown hundreds of thousands of hours on unmanned and manned aircraft. Applications include in-theater military operations, public safety missions and commercial surveillance projects.

For additional information:

Cloud Cap Technology
202 Wasco Loop, Suite 103
Hood River, OR 97031
USA
Ph: +1.541.387.2120
www.cloudcaptech.com

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Due to our continued efforts in product improvement, all product specifications are subject to change without notice.