

# COBALT™ 190

COMPACT SEVEN PAYLOAD EO/IR RSTA SYSTEM  
DEVELOPED FOR UNMANNED APPLICATIONS



## APPLICATIONS

RECONNAISSANCE

SURVEILLANCE

TARGET ACQUISITION

TARGET IDENTIFICATION

## FEATURES

Advanced, compact sensor suite

Single LRU sets new standard in size, capability and performance

640 x 480 InSb IR sensor

Long range color CCD

WFOV LWIR and color CCD cameras

Eyesafe laser range finder

RSTA + laser designator (optional)

Laser pointer

Two multi-target trackers

Dual simultaneous video outputs

Command, control and telemetry over Ethernet

Advanced fiber optic gyro stabilization

## BENEFITS

Up to seven SIMULTANEOUS payloads in a 7.5 inch diameter gyro-stabilized turret

Manned and unmanned airborne, for land and maritime environments

Long range, continuous zoom optics

Continuous zoom optics, outstanding color fidelity

Provide WFOV situational awareness in both EO and IR

Supports high accuracy range to target, target geolocation and Geo-Lock™ capability

Supports precision targeting in conjunction with advanced stabilization, beam quality, and boresighting techniques

Laser pinpoints targets for observers using night vision equipment, while remaining invisible to others

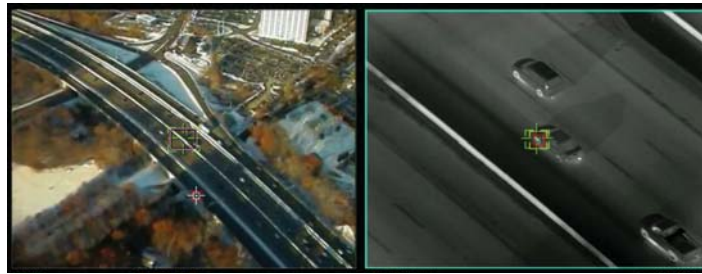
Simultaneously detect targets with both IR and EO sensors. Targets acquired with one sensor can be handed off to the other

View two sensors simultaneously in separate display or split screen. Maintain WFOV situational awareness with one sensor while performing target identification with another. View NFOV EO and IR imagery together to augment target ID capability

Modern technology that addresses current requirements and future growth, and simplifies platform integration

Outstanding gimbal stability maximizes EO and IR sensor range performance as well as laser designation range/energy on target





Wide and narrow IR and EO channels can be viewed in combination. Tracked objects can be handed off from one camera to the other.

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## IR IMAGING PERFORMANCE

IR Sensor #1	Midwave IR Sensor with 640 x 480 InSb FPA
Fields of View	1.7° to 28° with 14.5X Continuous Zoom
IR Sensor #2	Longwave IR Sensor with 320 x 240 uncooled microbolometer FPA
Field of View	34° Fixed Wide FOV

## DAYLIGHT IMAGING PERFORMANCE

EO Sensor #1	Continuous zoom Color CCD-TV
Fields of View	1.7° to 28° with 14.5X Continuous Zoom
EO Sensor #2	Miniature color CCD TV
Field of View	35° Fixed Wide FOV

## LASER PAYLOADS

Rangefinder	1.54 μm, eyesafe, supports >20 km range capability
Designator (optional)	1.06 μm diode pumped
Laser Pointer	850 nm, 30 mW output power

## AUTOMATIC VIDEO TRACKING

Two independent trackers

## TARGET GEOLOCATION/GEOPPOINTING/GEO-CUEING

Using External GPS/IMU

## SYSTEM PERFORMANCE

Gimbal type	2-axis gyro-stabilization
Azimuth coverage	360° continuous
Elevation coverage	+20° to -60°

## SYSTEM INTERFACES

Video	Dual RS-170; split screen capable
Control	Open architecture to simplify ground station integration
Data	IP over Ethernet

## POWER REQUIREMENTS

18-32V DC	Designed to MIL-STD-704E
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## DIMENSIONS, WEIGHT & MOUNTING

Size	7.5 in x 10.6 in (190 mm x 270 mm)
Weight	~18 lbs (8.2 kg)

## ENVIRONMENTAL

Standards	MIL-STD-810 & MIL-STD-461
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