

COBALT 350

COMPACT ELECTRO-OPTICAL AIRBORNE GIMBAL
DEVELOPED FOR UAV APPLICATIONS



APPLICATIONS

- COUNTER DRUG
- HOMELAND SECURITY
- PATROL
- SURVEILLANCE
- RECONNAISSANCE
- SEARCH AND RESCUE

FEATURES

- Lightweight high stiffness composite body
- Multiple FOV's 3-5µm thermal imagers
- Daylight color camera with 26x zoom
- 4 axis active stabilization
- EASA Certified installations
- It's all FLIR inside

BENEFITS

- Reduces weight for increased mission range.
- Large format 640 x 512 infrared camera allows for positive target analysis at safe stand-off ranges in all weather conditions.
- Maximizes standoff range and target acquisition during daytime surveillance missions; the low light function extends operation into dawn or dusk.
- Provides stable imagery by compensating for aircraft movement and vibration, critical for long range imaging.
- The system can be delivered with EASA Form 1 certification
- FLIR controls the entire supply chain for the critical technology inside its COBALT class gimbals, ensuring fast service and long-term support





COBALT 350

OVERVIEW

Gimbal size	350 mm (D) x 490 mm (H)
Gimbal weight	22 kg
Environmental	RTCA DO-160E

THERMAL IMAGING PERFORMANCE

Sensor type	3rd gen 640x512 3-5 μ m focal plane array
FOVs	
Wide	21.7° x 17.5°
Medium	6.9° x 5.5°
Narrow	1.7° x 1.4°
Focus	Auto focus and manual focus available
Ezoom	2x

DAYLIGHT IMAGING PERFORMANCE

Sensor	Super HAD Color
Resolution	740 000 pixels (PAL) 630,000 pixels (NTSC)
Fields of view	42° to 1.6° optical continuous zoom
Low light level	Without IR cut-off filter
Ezoom	2x

SPOTTER SCOPE OPTION

Sensor type	EMCCD
Field of view	15.83° to 0.72° continuous zoom
Sensitivity	10 μ Lux

GIMBAL SPECIFICATIONS

LOS Pan range	360 degrees continuous
LOS Tilt range	+20 / -120 degrees
AZ/EL slew rate	Up to 60°/s
Stow	Magnetically held in stow position

OUTPUTS

Analog	RS-170, NTSC, PAL, CCIR
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POWER

Power requirements	22-30 VDC < 150 W
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OPTIONS

Auto-tracker, Laser Range Finder, long wave infrared camera, GPS interface

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