

GOSHAWK

UNMANNED AIR VEHICLE PAYLOAD



DESCRIPTION

The Goshawk range of electro-optical (EO) payloads for Unmanned Air Vehicles (UAVs) consists of the Goshawk 350 payload, designed for low- or medium-altitude UAVs and the Goshawk 410, designed for medium- and high-altitude UAVs. The designs are optimized to reduce weight and to accommodate all the relevant interfaces as required on a UAV system. The Goshawk payloads are high-performance, four-gimbal, two-axis, gyro-stabilized platforms that can be fitted with a range of sensors, including colour TV cameras, mid- or long-wave infrared thermal imagers, laser rangefinders and spotter TV cameras.

Goshawk meets the standards and requirements of the world's leading UAV manufacturers and is in operational use.

The Goshawk payload is controlled by the UAV operator by means of a control panel, a video monitor and a video recorder situated in the UAV ground control station.



FEATURES

- Designed for UAV applications
- Gyro-stabilized to reject UAV motion and vibration
- Multi-sensor payload options
- 3 - 5 μm or 8 - 12 μm thermal imager options
- Optional laser rangefinder
- Optional automatic video tracking
- Optional spotter TV cameras

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TECHNICAL SPECIFICATIONS

	GOSHAWK 350	GOSHAWK 410
<ul style="list-style-type: none"> Stabilized Turret: <ul style="list-style-type: none"> Turret Type Stabilization Az Look Angles El Look Angles Dimensions 	<ul style="list-style-type: none"> Four-axis gimbal < 25 μrad rms n x 360$^{\circ}$ +15$^{\circ}$ to -120$^{\circ}$ 350 x 500 mm 	<ul style="list-style-type: none"> Four-axis gimbal < 20 μrad rms n x 360$^{\circ}$ +20$^{\circ}$ to -105$^{\circ}$ 410 x 490 mm
<ul style="list-style-type: none"> Thermal Imager (TI): <ul style="list-style-type: none"> Spectral Band Detector 3 - 5 μm 8 - 12 μm Field of View 	<ul style="list-style-type: none"> 3 - 5 μm / 8 - 12 μm 288 x 384 288 x 4 TI-dependent 	<ul style="list-style-type: none"> 3 - 5 μm / 8 - 12 μm 288 x 384 288 x 4 TI-dependent
<ul style="list-style-type: none"> Colour TV Camera: <ul style="list-style-type: none"> Super Colour Payload <ul style="list-style-type: none"> Resolution Field of View Zoom Ratio Focal Length Colour Payload <ul style="list-style-type: none"> Resolution Field of View Zoom Ratio Focal Length 	<ul style="list-style-type: none"> 1/2 inch 3-CCD Sensor 850 TV lines 0,7$^{\circ}$ to 26$^{\circ}$ x40 Zoom 13 to 512 mm 1/2 inch 1-CCD Sensor 450 TV lines 1,5$^{\circ}$ to 22,6$^{\circ}$ x15 Zoom 16 to 244 mm 	<ul style="list-style-type: none"> 1/2 inch 3-CCD Sensor 850 TV lines 0,7$^{\circ}$ to 26$^{\circ}$ x40 Zoom 13 to 512 mm 1/2 inch 3-CCD Sensor 850 TV lines 0,7$^{\circ}$ to 26$^{\circ}$ x40 Zoom 13 to 512 mm
<ul style="list-style-type: none"> Laser Rangefinder (Optional) <ul style="list-style-type: none"> Spectrum Range 	<ul style="list-style-type: none"> 1,54 μm (eye-safe) 20 km 	<ul style="list-style-type: none"> 1,54 μm (eye-safe) 20 km

