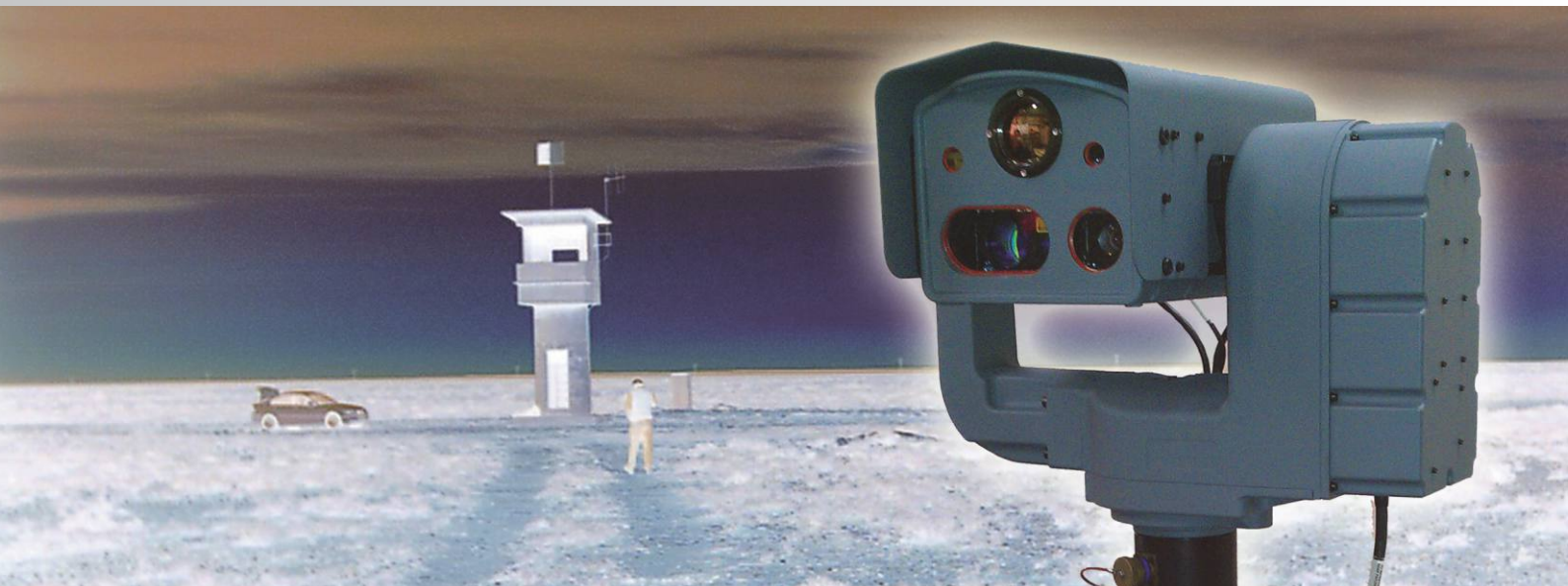


WASP

High Performance Motorised Pan & Tilt Head for Mid / Long Range Land and Coastal Surveillance Applications



Main Advantages & Features

- Modular unit, adaptable to suit a wide range of payload configurations and mid / long range applications
 - Gyro stabilisation (option)
 - Auto tracking (option)
 - Marine environment (option)
- Azimuth slipping as standard
- Rugged compact design
- Environmentally sealed (IP67)
- Payload support for 1000Base-T Gigabit Ethernet
- Ethernet / RS422 control
- Precise speed control
- High accuracy high axis speed (60°/s)
- Highly resistant to shock and vibration

Applications

- Fixed and mobile border surveillance
- Coastal surveillance
- Port and shipping control
- Customs and coastguard applications
- Vehicle mounted applications
- Maritime applications
- Security & perimeter defence
- Auto tracking applications
- Line of sight stabilisation

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Outline Specification

Weight (approx)*	12kg - 15.5kg (26.4lbs - 34.1lbs)
Output torque* (nominal)	15Nm
Elevation (Tilt) range**	±90°
Azimuth (Pan) range	Continuous 360°
User programmable software stops	Yes
Minimum velocity	0.0056°/s
Maximum velocity	60°/s
Positional accuracy	0.056° 1σ
Operating voltage	20 - 32Vdc
Safety cut-out	Yes
Fail safe brake	Yes
Electrical connection	38999 type
Communications	Ethernet / RS422
Support arm spacers	Yes option
Marinisation	Yes Option
Stabilisation	Yes Option
Autotracking	Yes Option
Environmentally sealed	Yes (IP67)
Operating temperature	-32°C to 71°C

* Depends on application and configuration

** Payload and bracket dependent

Dimensions (approx)

Wasp L	424mm H x 302mm W x 166mm D
Wasp U	424mm H x 462mm W x 166mm D

Space for payload as standard is 266mm (Wasp U). Wider payloads are accommodated by the use of a support arm spacer.

Stabilisation performance (Option)

The stabilised Wasp is capable of stabilising to $\leq 0.028^\circ$ RMS under a disturbance of $\pm 7^\circ$ in a three second period with a 15kg balanced payload, at an ambient temperature of 21°C.

The Wasp is one of Instro's mid range high performance motorised pan and tilts.

Based on a rugged and compact 'L' shaped design, the Wasp can be configured to handle an impressive range of sensors and sensor suits for long range surveillance tasks.

The Wasp is capable of axis speeds of up to 60° per second and is ideally suited for homeland security in permanent installations and stationary vehicle applications where a high degree of controllability and positional accuracy is required.

With the addition of a tripod mount adapter, the Wasp is equally suited to tripod mounted applications.

The Wasp is available in two standard versions. basic 'L' configuration and 'U' configuration which benefits from the addition of a support arm.

The capability of the Wasp motorised pan & tilt can be further extended with the addition of factory options such as gyro stabilisation, auto tracking and support arm spaces to achieve optimum payload mass distribution.

Options

- Gyro stabilisation
- Automatic video tracker
- Maritime environmental protection
- Support arm spacers
- Bespoke payload bracket design service
- Customer specific paint colour



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