

WASP

High Performance Motorised Pan & Tilt Head for Mid / Long Range Precision Surveillance Applications



Main Advantages & Features

- Modular unit, adaptable to suit a wide range of payload configurations and mid / long range applications
 - Gyro stabilised option
 - Autotracking option
 - Marine environment option
- Very rugged and compact design
- Environmentally sealed
- High accuracy
- Azimuth slipping versions available
- RS422 communications
- Precise speed control
- 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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Technical Data

Mass (Approx)*	12-15.5Kg (26.4-34.1lbs)
Output torque* (Nominal)	15Nm
Elevation (Tilt) range	±90°
Azimuth (Pan) range	±200° (360° sliping)
User programmable software stops	Yes (In elevation)
Minimum mean velocity	0.0056°/s
Maximum mean velocity	60°/s
Positional accuracy	0.056° 1σ
Backlash	Backlash free
Operating voltage	20 - 32Vdc
Safety cut-out	Yes
Fail safe brake	Yes
Electrical connection	38999 type
Communications	Rs422
Support arm spacers	Yes option
Marinisation	Yes Option
Stabilisation	Yes Option
Autotracking	Yes Option
Environmentally sealed	Yes
Operating temperature	-32°C to 71°C

* depends on application and configuration

Dimensions (approx)

Wasp L 353H x 302W x 166D mm

Wasp U ** 353H x 462W x 166D mm

Sliping versions-

Wasp L 424H x 302W x 166D mm

Wasp U ** 424H x 462W x 166D mm

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

Stabilisation performance

The stabilised Wasp is capable of stabilising to $\leq 0.056^\circ$ RMS under a disturbance of $\pm 3.5^\circ$ in a three second period with a 15kg payload, at and 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 backlash free 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 four standard versions, basic 'L' shape, 'L' with support arm, 'L' with azimuth sliping assembly and 'L' with azimuth sliping assembly and support arm.

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

Options

- Gyro stabilisation capability
- Auto tracking capability
- Customer tailored remote control consoles and system cabling
- Maritime colour and sealing
- Sliping for continuous rotation in azimuth
- Customer specific mounting brackets
- Customer specific paint colour



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