

HORNET

Lightweight High Performance Motorised Pan & Tilt Head for Man Portable Surveillance Applications



Main Advantages & Features

- Very compact unit, ideally suited to man portable surveillance applications
- Very rugged design
- Lightweight and compact
- Level bubble as standard
- Environmentally sealed
- High pointing accuracy
- RS422 communications
- Precise speed control
- Fast axis speed (10°/s) version available
- Highly resistant to shock and vibration
- Quick release payload interface
- Built-in tripod interface

Applications

- Mobile border surveillance
- Tripod mounted observation posts
- Customs and police applications
- Environmental applications
- Industrial security
- Security & perimeter surveillance

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Technical Data

Mass (Approx)*	2.15kg (4.75lbs) 2.3kg (5.06lbs)**
Output torque* (Nominal)	4.5Nm
Elevation (Tilt) range	±45°
Azimuth (Pan) range	±360° (Subject to cable wrap up)
Minimum mean velocity	0.0045°/s
Maximum mean velocity	2.25°/s 10°/s**
Positional accuracy	0.056° 1σ
Backlash	Backlash free
Operating voltage	12 - 24Vdc
Electrical connection	Single, sealed
Communications	RS422
Environmentally sealed	Yes
Operating temperature	-32°C to 71°C

* Depends on application and configuration

**High speed version

Dimensions (approx)

Hornet, standard	123H x 153W x 192D mm
Hornet, high speed	123H x 166W x 192D mm

Options

- Customer tailored remote control consoles and system cabling
- High speed option
- Line of sight position reporting option
- Customer specific payload mounting adaptors
- Customer specific paint colour

The Hornet is Instro's lightest and most compact motorised pan and tilt.

Designed to be the same size as a goniometer, the Hornet features a standard tripod mounting interface to provide a truly man portable solution for remote surveillance tasks where the use of hand held sensors is impractical or dangerous to the user. A selectively illuminated level bubble is provided as an aid to deployment.

The backlash free Hornet is capable of axis speeds of up to 2.25° per second for standard versions and 10° per second for high speed versions.

Accurate line of sight position reporting is made possible by internal encoders in both azimuth and elevation. However for simple 'point only' applications the Hornet is available without encoders.

All versions feature an innovative anti-backlash and wear compensation mechanism plus a friction clutch in each axis to maintain accuracy.

A low magnetic signature makes the Hornet suitable for use with payloads featuring Digital Magnetic Compasses.

The Hornet is ideal for homeland security and surveillance tasks on the move where a high degree of mobility is required.

Accessories

- PC based control software
- Control and power cable set
- Console controller
- Handheld controller
- Matching tripod
- Quick release payload adaptors



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