

Motorised Pan & Tilts

High Performance Motorised Alignment Solutions

Hornet

The Hornet is Instro's most compact motorised pan and tilt unit ideally suited to man portable remote surveillance applications.



Driveman

The new Driveman is designed to offer a reliable and very rugged cost effective support solution for compact multifunction sensors used in vehicle and static surveillance applications.



Wasp

With slirping and stabilised versions available, the popular Wasp is ideally suited to mid / long range precision surveillance applications.



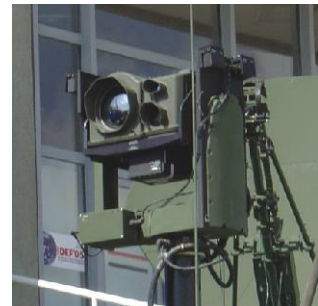
Watchman

The Watchman motorised pan and tilt unit is based on a conventional 'T' configuration with single, idler and dual sided driven versions available.



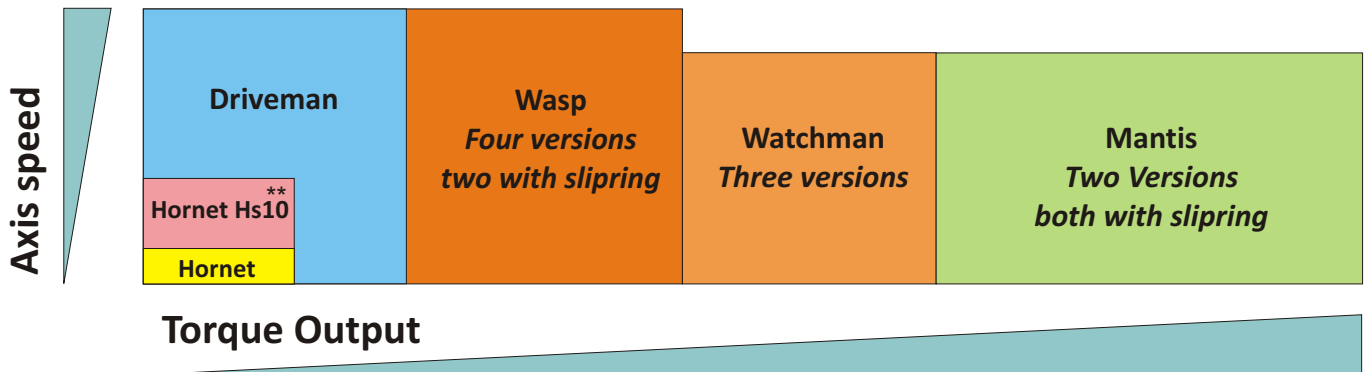
Mantis

The Mantis features a slirping as standard and is ideally suited to long range very high accuracy multi sensor surveillance applications.



Motorised Pan & Tilts

Selection chart



Outline specifications

	Hornet / HS10	Driveman	Watchman	Wasp	Mantis
Slip ring	No	Available	No	Available	As standard
Support arm	N/A	N/A	N/A	Available	Available
Mass (Approx)*	2.15 / 2.3kg (4.73 / 5.06lbs)	4.0kg (8.8lbs)	16.25 – 19kg (37.75 – 42lbs)	12 – 15.5kg (26.4 – 34.1lbs)	26 – 31kg (58 - 68lbs)
Output torque* (Nominal)	4.5Nm	9Nm (Peak)	-	15NM	100Nm
Elevation (Tilt) range	±45°	±45°	±90° / ±45°	±90°	±90°
Azimuth (pan) range	360° (Subject to cable wrap up)	±175°	±200° (360°)	±200° (360° slipping)	360° (slipping)
User programmable software stops	N/A	Yes (in elevation)	Yes (in elevation)	Yes (in elevation)	Yes (in elevation)
Minimum mean velocity	0.045°/s	0.0056°/s	0.0056°/s	0.0056°/s	0.0056°/s
Maximum mean velocity	2.25°/s / 10°/s**	60°/s	45°/s	60°/s	50°/s
Positional accuracy	0.056° 1σ	0.056° 1σ	0.056° 1σ	0.056° 1σ	0.056° 1σ
Backlash	Backlash free	Backlash free	Backlash free	Backlash free	Backlash free
Operating Voltage	12 - 24Vdc	20 – 32Vdc	20 - 32Vdc	20 - 32Vdc	20 - 32Vdc
Safety cut-out	No	Yes	Yes	Yes	Yes
Fail safe brake	No	No	Yes	Yes	Yes
Electrical Connections	Single, sealed	38999 type	38999 type	38999 type	38999 type
Communications	RS 422	RS 422	RS 422	RS 422	RS 422
Support arm spacers	N/A	N/A	N/A	Yes - Option	Yes - Option
Marinisation	-	Yes - Option	Yes - Option	Yes - Option	Yes - Option
Stabilisation	-	-	-	Yes - Option	-
Autotracking	-	-	-	Yes - Option	Yes - Option
Operating temperature	-32°C to 71°C	-32°C to 71°C	-25°C to 71°C	-32°C to 71°C	-30°C to 71°C

*Depends on application and configuration **HS10 azimuth axis only



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