

D1

Lightweight High Performance Motorised Pan & Tilt Head for General Purpose Surveillance Applications



Main Advantages & Features

- Versatile pan and tilt unit for a wide range of payload configurations and applications
- Man portable
- Quick release payload interface
- Slipping for continuous rotation
- Rugged compact design
- Environmentally sealed (IP67)
- Payload support for 1000Base-T Gigabit Ethernet
- Ethernet / RS422 control
- Precise speed control
- High accuracy, high axis speed (50°/s)
- Highly resistant to shock and vibration

Applications

- Man portable surveillance applications
- Tripod mounted observation posts
- Customs and border police
- Industrial security
- Security & perimeter defence
- Communications antenna alignment



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Outline Specification

Weight (approx)*	4.6kg (10.1lbs)
Payload capacity	
-Top mounted payload	5kg
-Pannier mounted payload	9kg
Elevation (Tilt) range	±45°
Azimuth (Pan) range	Continuous 360°
Minimum velocity	0.0056°/s
Maximum velocity	50°/s
Positional accuracy	0.056° 1σ
Operating voltage	18 - 32Vdc
Safety cut-out	Yes
Electrical connection	38999 type
Connectivity	-RS422, -1000Base-T Ethernet -Analogue Video
Environmentally sealed	Yes (IP67)
Operating temperature	-32°C to 71°C

* depends on application and configuration

Dimensions (approx)

D1 247mm H x 136mm W x 225mm D

Accessories

- PC based control software and cables
- Hardware controller with monitor and digital video recorder
- Tripod mount adaptor
- Matching tripod
- Quick release payload adaptors

The D1 is a lightweight high performance family of motorised pan and tilt heads developed for general purpose surveillance applications.

Based around a rugged and compact casing, the lightweight D1 is designed to support payloads such as thermal imagers, day / night cameras and combination EO sensor systems. Depending on application requirements, D1 supports a choice of payload capacities, 5kg if it is top mounted and 9kg for pannier mounted.

The D1 pan and tilt is available with slip-ring as standard and can be tripod mounted for rapid deployment in homeland security and border surveillance tasks. All models feature an integral levelling bubble.

Payloads can be either top mounted using Instro's quick release wedge interface or installed side in a pannier configuration using a suitable dual payload mounting bracket.

Optimised cable connection eliminates the possibility of cable wrap up by including the input connector into the azimuth mounting base.

Internal cable connections pass power and communications through to a connector on the main body of the unit to enable easy connection to the payload.

Options

- Bespoke payload bracket design service
- Customer specific paint colour



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