

## D2

*High Performance Stabilised Pan & Tilt Head for Land and Marine Surveillance Applications*



### Main Advantages & Features

- High level gyro stabilised modular pan and tilt, suitable for a wide range of payload configurations and applications
- Payload support for two streaming HD cameras with 1000Base-T Gigabit Ethernet with channel number/type customisation capability
- Configuration options including built-in Auto tracker, Digital image stabilisation and Geo location
- Rugged compact design
- Environmentally sealed (IP67)
- High accuracy, high axis speed (100°/s)
- Slipring for continuous rotation
- Highly resistant to shock and vibration
- RS422 or 100Base-T Ethernet control

### Applications

- Camera line of sight control for fixed, marine and border surveillance
- Fast patrol boats
- Vehicle applications on the move
- Coastal surveillance
- Port authorities and shipping control
- Customs and coastguard vessels
- Security & perimeter defence
- Heavy wheeled vehicle remote viewing
- Maritime surveillance systems
- Fixed mast mounted applications

## High Performance Stabilised Pan & Tilt Head for Land and Marine Surveillance Applications

### Outline Specification

Weight (approx)	15kg (33lbs)
Payload capacity:	
-Top mounted payload	14kg
-Pannier mounted payload	25kg
Elevation (Tilt) range	±90°*
Azimuth (Pan) range	Continuous 360°
Minimum velocity	0.0056°/s
Maximum velocity	100°/s
Positional accuracy	0.056° 1σ
Stabilisation levels:	
-Elevation (Tilt) attenuation	-20dB up to 7Hz
-Azimuth (Pan) attenuation	-20dB up to 1Hz
Operating voltage	18 - 32Vdc
Safety cut-out	Yes
Electrical connection	38999 type
Connectivity	-Rs422 -Gigabit 1000Base-T Ethernet -Analogue Video
Environmentally sealed	Yes (IP67)
Operating temperature	-32°C to 71°C
* Payload and bracket dependent	

### Dimensions (approx)

D2 341mm H x 320mm W x 207mm 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 D2 motorised pan and tilt head offers high speed, high accuracy motion control in combination with a high level of line of sight motion stabilisation.

Ideally suited for users working with unstable mounting platforms, the high performance D2 is placed to address the design challenge encountered with accurate remote line of sight control of modern electro optic payloads.

Examples of such applications include heavy wheeled vehicle remote viewing systems, maritime surveillance systems or fixed systems mounted on tall, flexible masts.

Typical payloads include thermal imagers, day / night cameras and combination EO sensor systems.

The D2 supports the latest digital video and communications via 1000Base-T Gigabit Ethernet making it particularly suitable for extended border control and surveillance consisting of multiple installations controlled over IP.

### Options

- Built-in automatic video tracker
- Built-in frame rate digital image stabilisation
- Bespoke payload bracket design service
- Customer specific paint colour



### Instro Precision Limited

Tel : + 44 (0) 1843 604455 Fax : + 44 (0) 1843 864143  
Email : [marketing@instro.com](mailto:marketing@instro.com) Web : [www.instro.com](http://www.instro.com)