



Fixed mount security



Large payload capacity



Stabilised thermal imaging



Python

Pan & Tilt Head



The PYTHON Electro-Optical Platform is a flexible dual axis platform, and shares many of the sub assemblies from Chess' proven COBRA platform. The 'L' shaped design allows for the accommodation of large payloads, which can be supported by an optional side arm to form a 'yoke' configuration.

PYTHON has been developed primarily for carrying an extensive range of modern integrated optical sensor packages for compact surveillance solutions. It is suitable for ground deployed and light vehicle mounted situational awareness, security and surveillance applications.

The PYTHON EOP conforms to all of the latest environmental requirements, and is fully qualified for mounting on lightly armoured wheeled vehicles. It has also been adapted for Naval applications (See SEA PYTHON).

- Flexible 'L' shaped design
- 360° x n continuous rotation (limited rotation also available)
- Based on the successful, and in service, COBRA platform
- Stabilised versions available
- Suitable for fixed position surveillance up to high performance vehicle applications

For Land, Ground Vehicle and Maritime situational awareness applications

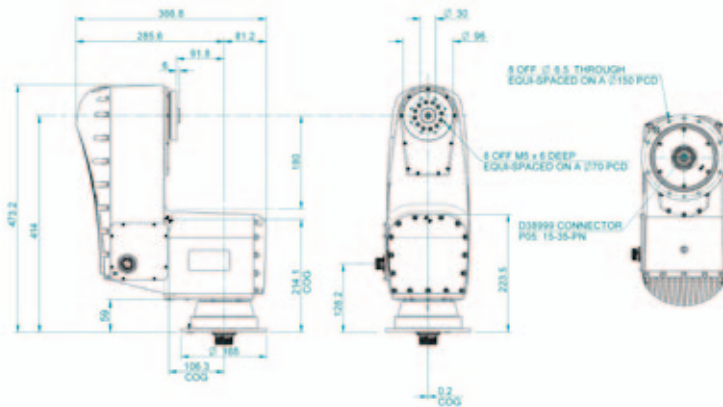


Python Technical Specification			
General	Commercial	Enhanced	Military
Cobra Mass	12.5Kg	13.6Kg	14.5Kg
Max. Payload	12-15Kg	15-18Kg	20+Kg
Stabilisation Option	No	Yes	Yes
Mechanical			
Azimuth Rotation	360° x N		
Elevation Soft Endstops	± 45°	± 60°	Range TBA
Elevation Endstops	± 50°	± 65°	Range +5°
Electrical			
Voltage Range	24 ± 1.5V DC	18-32V DC	18-32V DC
Power Peak (24V)	130W	150W	150W
Power @ Rest (24V)	30W	34W	36W
Power Heaters (24V)	N/A	25W	50W
Communications	RS422		

Performance (Gearbox options for each axis)	100	160	200
Gearbox Ratio	100:1	160:1	200:1
Max Speed	64°/s	42°/s	32°/s
Min Speed	0.088°/s	0.055°/s	0.044°/s
Pointing Accuracy	0.08°	0.07°	0.06°
Environmental	Commercial	Enhanced	Military
General Specification	Commercial EU & CE Std	Mil Std 810C	Mil Std 810C & Def Stan 00-35
Low Temp. Operation	-10°C	-20°C	-32°C
High Temp. Operation	+49°C	+49°C	+55°C
Rain	200mm/hr duration		
Snow/Ice	50mm Snow with 3mm Ice		
Sand/Dust	CE	Mil 461E	Def Stan 59-44 Land Class A

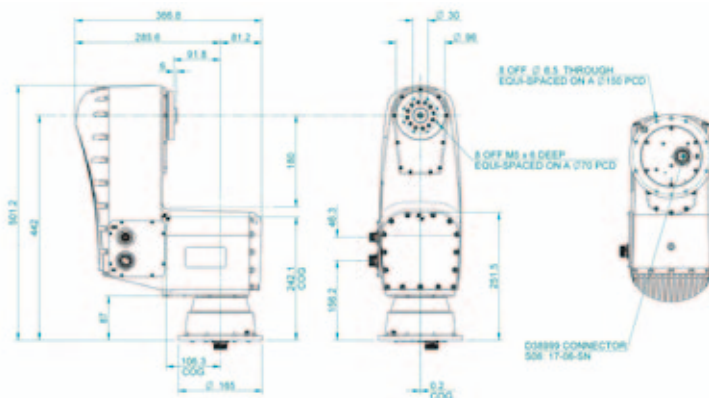
Commercial

- Standard gaskets
- Standard performance sliping
- -10° to +49°C fully operational
- Compact design with base mounted connector for fixed position use



Enhanced

- EMC gaskets and grounding system
- DC/DC converter (18-24V DC)
- Standard performance sliping
- Secondary azimuth bearing for high shock and vibration
- Heavy duty lower bearing housing with clamp ring
- Heaters for low temperature operation (-20° to +49°C fully operational)



Military

- EMC gaskets and grounding system
- EMC feed through filter PCD
- Surge suppression PCB
- Conducted emissions filter
- DC/DC converter (18-32V DC)
- High performance sliping with 5 coaxial circuits
- 4 x rear sensor connectors
- 2 x base connectors, positioned to mounting requirements
- Secondary azimuth bearing for high shock and vibration
- Heavy duty lower bearing housing with clamp ring
- Heaters for low temperature operation (-32° to +55°C fully operational)

