



Ideal for tracked vehicles



Fast tripod deployment



TV & Thermal zoom cameras



OWL



Electro-Optical Director

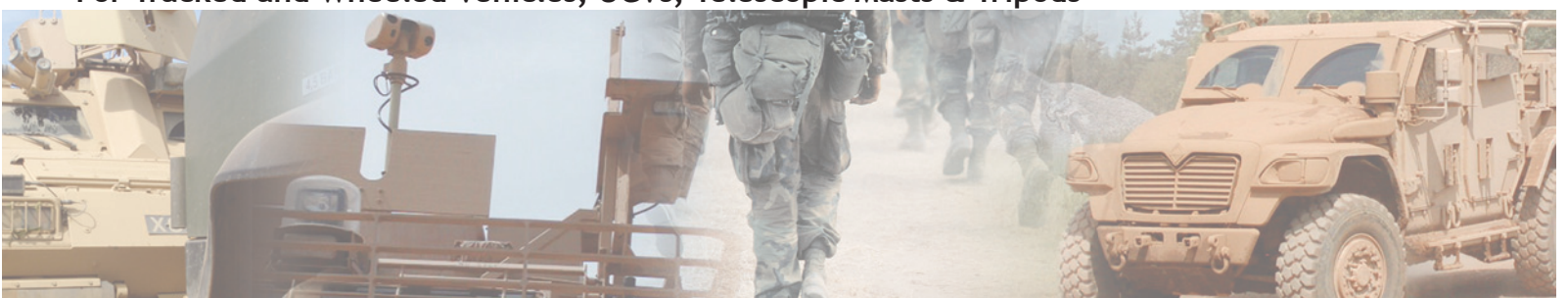
The **OWL** Electro-Optical Director (EOD) is based on the successful **COBRA** platform. It differs by being fitted with an integrated camera head assembly, consisting of a reliable un-cooled thermal imager and colour TV camera with an optional wiper mechanism.

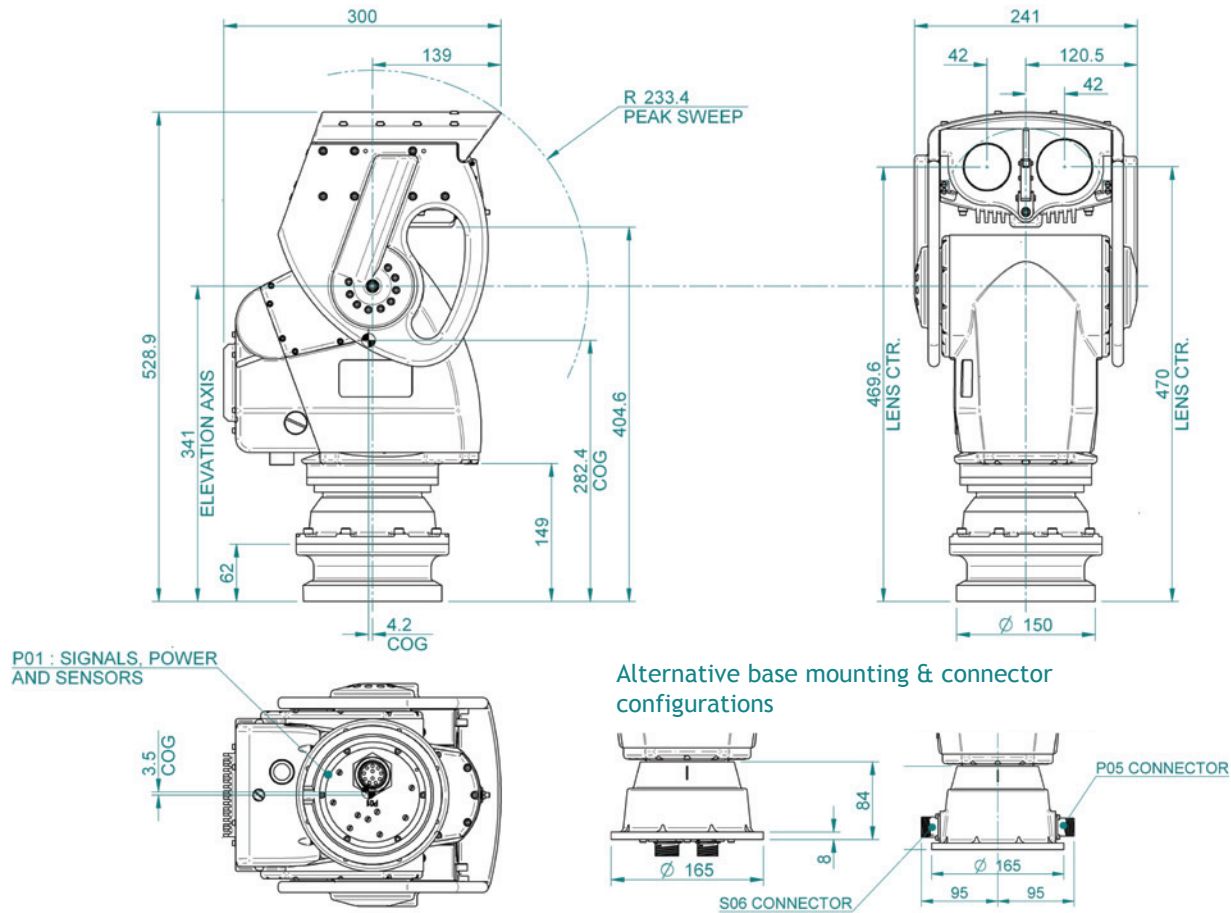
OWL is ergonomically designed for rugged ground and vehicle deployment, which makes it a diverse tool for situational awareness, reconnaissance and surveillance applications. **OWL** is fully qualified for mounting onto armoured wheeled vehicles, and is fully compliant with all of the latest environmental requirements including EMC to Land Class A.

OWL's low friction pan and tilt motion makes it suitable for gyro stabilisation where required, and can be adapted with a reinforced lower bearing housing to withstand severe shock and vibration from tracked vehicle applications.

- 360° x n continuous rotation
- Daylight TV colour zoom camera
- Un-cooled thermal camera (8-12µm, 50mm lens)
- Rated for shock & vibration on tracked vehicles
- Based on Chess' reliable & proven Cobra platform
- Optional gyro stabilisation & integrated sensor wiper

For Tracked and Wheeled Vehicles, UGVs, Telescopic Masts & Tripods





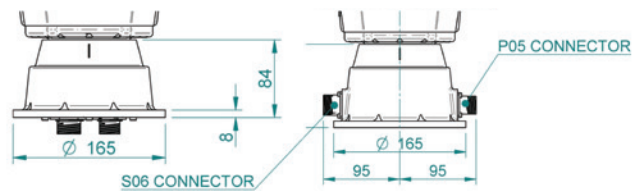
Owl Specifications

Performance		
Platform Mass	21Kg	
Azimuth	Rotation	360° x n Continuous
	Speed	Min: 0.01° / s Max: 50° / s
	Pointing Accuracy	0.03°
Elevation	Rotation	Endstops: -85° to +25° Software: -25° to +25°
	Speed	Min: 0.01° / s Max: 50° / s
	Pointing Accuracy	0.03°
Electrical		
Power Supply	18-32V DC	
Communications	RS422	
Power Consumption Peak (24V) with Payload	50W	
Power Consumption Slow Scan (24V) with payload	35W	
Heaters	150W @ 28V DC (Separate circuit)	

Environmental

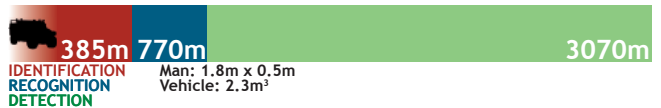
High Temperature	Operational: +49°C
	Storage: +71°C
Low Temperature	Operational: -32°C
	Storage: -40°C
Humidity	98% RH @ 35°C
Vibration	Random Spectrum 0.02g ² /Hz 5-500Hz
Shock	Operational: 10g 11ms ½ sinewave pluse
	Survival: 50g 6ms ½ sinewave pulse
Dust & Sand	Blowing Dust @ 10g/m ³ 5m/s 1 hour
EMC	Mil Spec 461E/Def Stan 59-411

Alternative base mounting & connector configurations



Thermal Imager Specifications

Type	11KC-25
Image Resolution	384W x 2884H
IR Wavelength	8µm to 12µm
FOV	11.6°H x 8.7°V
Video	PAL (Composite)
Ranges	



TV Camera Specifications

Type	¼" Colour ExView HAD CCD
Image Resolution	760W x 574H
Optical Zoom	36x
FOV	57.8° to 1.7° (Full Zoom)
Video	PAL (Composite)

Chess Dynamics designs and manufactures:

- Security and Surveillance Systems
- COTS, Military Systems
- Single & Multi-Axis Platforms & Directors
- Motion Stabilisation
- Tracking / Positioning
- Satellite Communications / Telecoms
- Optical / Vision Systems

Chess Dynamics prides itself on developing specialist electro-mechanical servo equipment and associated sensors to the highest standards using modern technology.

Why not let Chess Dynamics help you develop high performance systems that meet the stringent demands and specifications that are required in today's competitive international environment ?

For additional information or questions, please do not hesitate to contact us at the address below or visit our website.

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