



PRODUCT SHEET 2025

RUGGED GEARED PT-UNIT **TAÛROS**

Precision and accuracy are paramount, the demand for advanced motion control systems is ever-growing.

ELR's rugged geared PT-Unit Taûros embodies a sophisticated design amalgamating state-of-the-art engineering principles with advanced materials and precision manufacturing techniques.

At its core, the unit consists of two independent rotational axis driven by high-torque servo motors meticulously designed to ensure seamless motion control with zero backlash and exceptionally smooth motion.

Our mechanical assembly incorporates precision bearings and gears, engineered to minimize friction and optimize torque transmission, thus facilitating smooth and precise movements across a wide range of operating conditions.

The PT-unit integrates high-resolution encoders coupled with ultra high bandwidth closed-loop control, enabling the best possible motion, tracking and positioning for your demanding applications. Application includes cueing onto and tracking small, fast targets at range during vehicle-stabilised 'on-the-move' operations. The taûros is ready to exceed your motion control needs.


TECHNICAL SPECIFICATIONS




DESCRIPTION	VALUE
Pan angle	n x 360°
Tilt angle	Up to ± 90°
Max speed	120°/s @ 28VDC
Min speed	0.01°/s
Payload	Up to 60 kg mobile applications Up to 120 kg static applications
Torque	Peak Torque 150nm Momentary torque limit 240nm
Backlash	Zero Backlash (Strain wave gearbox compliance <0.01°)
Encoder resolution	0.00068°
Platform accuracy	< 0.05°
Stabilization	± 90°
Brake	Fail-safe electronic parking brake
Comm's	Ethernet 100 Base-T or optional direct fibre input
Environmental	-32° to +55° operating temperature MIL-STD-461G (CE101, CS102, RE101, RE102) MIL-STD-810H (High/ low temperatures, shock/ vibration) IP67, IK10
Power	12 to 48 VDC MIL-STD-1275D
Size	400 mm x 250 mm x 200 mm
Weight	19 kg
Material	Carbon fibre & Aluminum

OPTIONS

- ✓ Integrated video tracker & analytics
- ✓ High performance GPU for 'on the edge' AI processing
- ✓ Configurable sliprings
- ✓ Low temperature heaters
- ✓ Internal IMU and/or gyro

EVVE LONG RANGE B.V. (ELR)

 De Wel 20
 3871MV Hoevelaken
 The Netherlands

 +31 (0) 85 303 76 59 (NL)
 info@evvelongrange.com
 www.evvelongrange.com

CONTACT
US