



# Lelantos<sup>TM</sup>

Lelantos is a family of market leading Pan Tilt Units which deliver true zero backlash and maintenance free operation with ultra smooth and accurate payload positioning.



Designed for demanding applications, these direct-drive PTUs offer exceptional accuracy and reliability and are easy to integrate to your payload. Whether you're tracking targets in a defence application, capturing high quality video in broadcast, or pointing free space optical/RF communication arrays, to mention but a few use cases, Lelantos provides the robust and adaptable pointing solution you need.

## High Performance Direct-Drive Pan Tilt Units



### Precision

Overview's direct-drive Lelantos Pan Tilt Units deliver exceptional accuracy and repeatability levels of up to  $0.005^\circ$ , delivering precise, smooth, and repeatable motion.



### Payload

Lelantos offers a range of models with payload capacities up to 15kg, accommodating a wide variety of payloads.



### Agility

Speed range, from  $0.05^\circ/\text{s}$  up to  $720^\circ/\text{s}$  enables extremely agile movement between positions. Lelantos' unique direct-drive technology make it the most agile Pan Tilt Unit in the market today.



### Direct-Drive

Overview's Integrated Servo Drives underpin all our Lelantos Pan Tilt Units. These directly drive payloads with no belts or gears, delivering true zero backlash motion with enhanced reliability.



### High Bandwidth

With options for high performance hybrid optical/copper sliprings, Overview's Lelantos Pan Tilt Units are a perfect match when high bandwidth payloads are being considered.



### Continuous Motion

Overview's Lelantos direct-drive Pan Tilt Units offer continuous motion in both Pan and Tilt at velocities up to  $720^\circ/\text{s}$ .



## Technical Summary

**Torque:** up to 4Nm in Pan & Tilt

**Pan/Tilt speed:** 0.05°/s to 720°/s

**Pan/Tilt range:** 360° with continuous rotation

**Typical payload weight:** up to 15kg

**Unit weight:** varies from 5kg up to 8.5kg

**Repeatability:** Up to 0.005°

**Control:** USB, I<sup>2</sup>C or CAN control variants

**IP Rating:** IP67

**Slipring:** Copper slipring with optional Hybrid / Optical slipring on selected products

**Payload mounting:** Options including tripod screw, M5 optical breadboard configuration, or custom solution

## Typical Applications

Lelantos is integrated into many systems requiring a precision pointing solution, including:

- Camera systems
- Volumetric measurement devices / LIDARs
- Communication systems including
  - Free Space Optical Communication
  - RF links
- Lighting
- Radar



## Compare Lelantos Variants

	1000	2000	3000
<b>Size (H x D x W) mm</b> <i>Excl. payload &amp; mount</i>	362 x 162 x 162	365 x 150 x 190	506 x 190 x 190
<b>Unit weight Kg</b>	5	5	8.5
<b>Torque (Pan / Tilt) Nm</b>	3 / 3	4 / 3	4 / 4
<b>Drive Voltage V DC</b>	48	48	48
<b>Typical payload weight Kg</b>	5	10	15
<b>Motion Speed°/s</b> <i>Payload dependant</i>	450	720	450
<b>Copper slipring</b> <i>Number of available pass throughs</i>	6 plus power and ground	4 plus CAN power and ground	5 plus CAN power and ground
<b>Optical slipring (optional)</b>	N/A	Hybrid	Hybrid





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