

**MODEL**  
Specifications\*



Description	USP-TDH20	USP-TDH40	USP-TDH80	USP-TDH120	USP-UDH200	USP-UDH350	USP-LDH20	USP-TDO20
	Compact T-shaped pan/tilt head for various applications.	T-shaped pan/tilt head suitable for medium size payloads.	High-end T-shaped pan/tilt head suitable for large payloads.	High-end T-shaped pan/tilt head suitable for large payloads.	High-end U-shaped heavy-duty pan/tilt head suitable for multiple payloads on both sides and the centre of the mount	High-end U-shaped heavy-duty pan/tilt head suitable for multiple payloads on both sides and the centre of the mount	High-end L-shaped pan/tilt head. The L-shaped structure allows to place an optical device in the axis intersection.	High-end overhead mounted pan/tilt head. The overhead mounting option allows to mount it underneath an aircraft/UAV/helicopter.
<b>Structural Shape</b>	T-shape				U-shape		L-shape	T-shape
<b>Type of Mounting</b>	Head up							Overhead
<b>Nominal Load</b>	20kg (2x10kg)	40kg (2x20kg)	80kg (2x40kg)	120kg (2x60kg)	200kg (75kg,50kg,75kg)	350kg (150kg,100kg,150kg)	20kg	20kg (2x10kg)
<b>Continuous Torque</b>	Pan Axis: 4Nm Tilt Axis: 4Nm	Pan Axis: 32Nm Tilt Axis: 32Nm	Pan Axis: 140Nm Tilt Axis: 140Nm	Pan Axis: 400Nm Tilt Axis: 400Nm	Pan Axis: 80Nm Tilt Axis: 80Nm	Pan Axis: 700Nm Tilt Axis: 400Nm	Pan Axis: 40Nm Tilt Axis: 4Nm	Pan Axis: 4Nm Tilt Axis: 4Nm
<b>Position Range</b>					Pan Axis: $\geq \pm 180\text{deg}$ Tilt Axis: $\geq \pm 90\text{deg}$			
<b>Position Accuracy†</b>	$\leq \pm 8 \text{ arcsec RSS}$ or $\leq \pm 24 \text{ arcsec PP}$ (high accuracy version: $\leq \pm 2 \text{ arcsec RSS}$ or $\leq \pm 6 \text{ arcsec PP}$ )							
<b>Rate Range</b>					Pan Axis: $\geq \pm 180\text{deg/s}$ Tilt Axis: $\geq \pm 120\text{deg/s}^2$			
<b>Acceleration<sup>Δ</sup></b>					Pan Axis: $\leq \pm 2 \text{ arcsec RSS}$ or $\leq \pm 6 \text{ arcsec PP}$ Tilt Axis: $\leq \pm 2 \text{ arcsec RSS}$ or $\leq \pm 6 \text{ arcsec PP}$			
<b>Orthogonality†</b>	Acuitas Motion Studio (AMS) or Acuitas Device Interface (ADI), LabView Driver (optional)							
<b>Wobble†</b>	Acuitas Control System (ACS)							
<b>Interface</b>								
<b>User Software Options</b>	- Object targeting functionality (geo-location), - gyro stabilization (LOS stabilization), - GNSS module integration, - stow locks, - slings for unlimited rotation, - stand (tripod, flat base etc.), - transportation box, - mechanical brake, - MIL-standard certification							

\*All given specifications are maximum values

†These specifications are measured without payload in a laboratory environment

Δ These specifications are measured with the nominal payload (cylinder shape "Length=2\*Radius") symmetrically arranged around each axis