

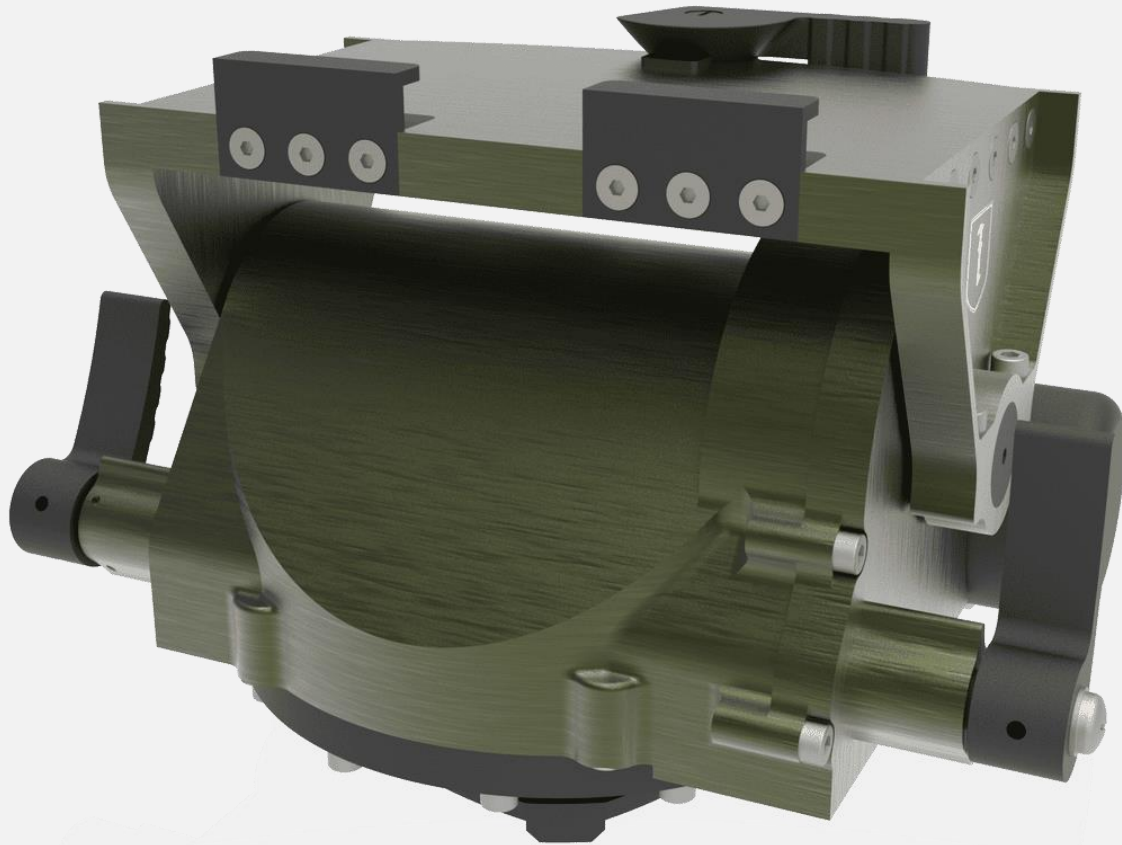


INVENTRA
SURVEILLANCE SYSTEMS

PMD01 – Lightweight Manual Pan-Tilt

Lightweight, Precise, and Durable Pan/Tilt Head for Critical Alignment Application for

Military EO Sensors, Designators, and Long-Range Optics



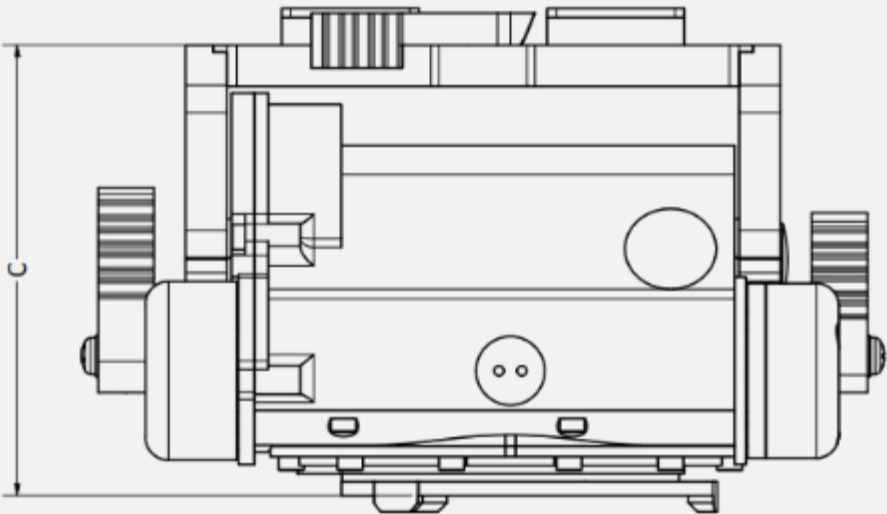
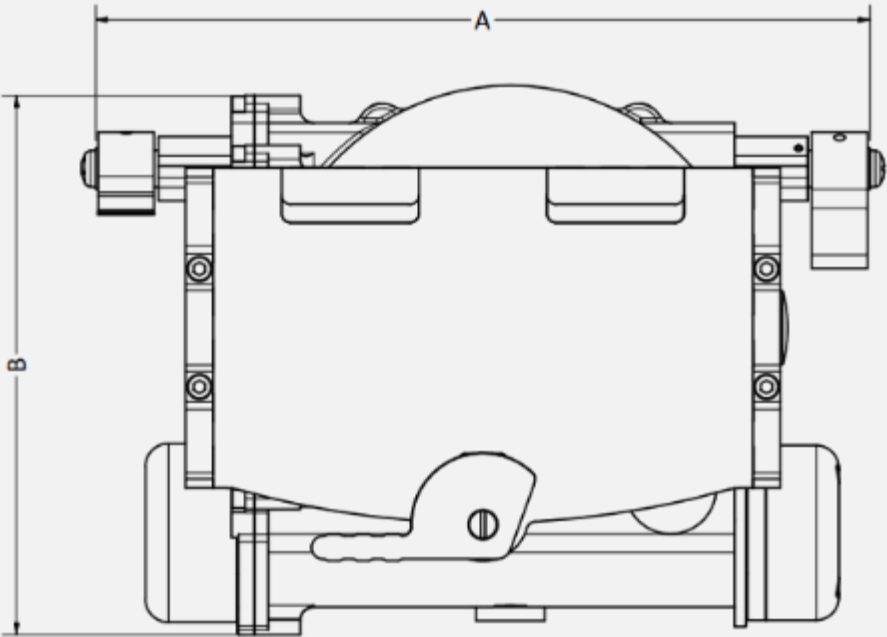
Distinctive Features

- ❖ **Fine Adjust Mechanism:** Provides precise adjustments for superior targeting accuracy.
- ❖ **Independent Braking:** Separate braking control for pan and tilt axis ensures operational stability.
- ❖ **Axis Damping Control:** Enhances precision tracking for moving objects and initial sensor alignment.
- ❖ **Magnetic Compass Compatibility:** Designed to work seamlessly with digital compasses for accurate orientation.
- ❖ **Elevation Scale:** Integrated elevation scale improves deployment accuracy in dynamic settings.

Main Features

- ❖ The PMD01 is a lightweight manual pan-tilt head engineered for applications demanding precision tracking and alignment.
- ❖ It offers fine adjustments in both axes, paired with viscous damping, ensuring optimal control for military surveillance and electro-optic sensor deployment.

Configuration Breakdown	Positioner – <u>M</u> anual – <u>D</u> ual Axis –01 (Product Class) – Payload Capacity
Part Number	PMD01-10
Available Customizations	Mechanical Interfaces
Combinable Platforms	TML10 – Ultra Lightweight Tripod



	Parameters / Configurations		PMD01-10
GENERAL PARAMETERS	Payload Capacity	kg	10 kg
	Pan Axis Range		n x 360°
	Tilt Axis Range		±45°
	Pan Axis – Fine Adjustment Range	°	±2.50°
	Tilt Axis – Fine Adjustment Range	°	±1.13°
	Axis Resolution	°	0.084° (1.5mil) in Both Axis
	Weight	kg	<1.4 kg
	Independent Braking	-	Available on Both Axis
DIMENSIONS	Width (A)	mm	173
	Depth (B)	mm	120
	Height (C)	mm	110
ENVIRONMENTAL QUALIFICATIONS	Wind Load	km/h	120
	IP Rating	-	IP65
	Temperature	°C	MIL-STD-810G, Method 502.5 Procedure II – Operational, -32°C
			MIL-STD-810G, Method 501.5 Procedure II – Operational, +60°C
			MIL-STD-810G, Method 501.5 Procedure I – Storage; +70°C
			MIL-STD-810G, Method 502.5 Procedure I – Storage; -40°C
	Low Pressure	-	MIL-STD-810G, Method 500.5 Procedure I – Storage 37,000ft
			MIL-STD-810G, Method 500.5 Procedure I – Operational 10500ft
	Vibration	-	MIL-STD-810G, Method 514.6 Procedure I Category 20, Figure 514.6C-3
	Shock	-	MIL-STD-810G, Method 516.6 Functional Shock, 20G 11ms, XYZ Axis, 3 Positive and 3 Negative Each Axis
	Humidity	-	MIL-STD-810G, Method 507.5 Procedure I – 90% Noncondensing @60°C, 11 Days
	Rain	-	MIL-STD-810G, Method 506.5 Procedure II
	Salt Fog	-	MIL-STD-810G, Method 509.5, 2 Cycles of 24 Hours
	Dust and Sand	-	MIL-STD-810G, Method 510.5, Procedure I and Procedure II



PMD01 – Manual Pan-Tilt Unit
TML10 – Ultra Lightweight Tripod