

Mini PTFA

Lightweight Pan & Tilt Units with Line of Sight Fine Adjust Capability for Precise Line of Sight Positioning



Main Advantages & Features

- Rugged lightweight and compact design
- Designed for ease and speed of deployment
- Viscous damping
- Fine adjust mechanism
- Independent braking action
- Circular level bubble
- Elevation scale
- Payload quick release mechanism
- Standard 5/8" 11 UNC tripod mount
- Full +/- 45° tilt range
- DMC compatible
- Environmentally sealed (IP67)
- Three standard payload interface options available

The Mini PTFA (Pan & Tilt Fine Adjust) family of manual pan and tilt heads has been designed for use in alignment critical applications and applications where it is necessary to accurately maintain the line of sight to moving objects.

The Mini PTFA features axis damping and fine adjust mechanisms in both pan and tilt for maximum versatility.

Axis damping allows the user much greater control when tracking moving objects and when initially aligning the mounted EO sensor to a chosen object.

For small far distant objects, the fine adjust mechanism provides exceptional alignment precision and braking action. All versions feature a circular level bubble as an aid to deployment and elevation scale as standard.

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Outline Specification

Payload capacity	10kg (2.2lbs)
Dimensions / weight:	
- Three stud	108mm (4.25") H x 173mm (6.8") W x 155mm (6.1") D Weight 1.37 (3.01lbs)
- Standard Wedge	109mm (4.29") H x 173mm (6.8") W x 130mm (5.12") D Weight 1.2kg (2.64lbs)
- Lightweight wedge	106mm (4.17") H x 173mm (6.8") W x 122mm (4.8") D Weight 1.2kg (2.64lbs)
Payload interface (mechanical)	Thumb operated quick release requiring compatible payload adapter
Tilt range of motion (coarse)	±45°
Pan range of motion (coarse)	Unrestricted, 360° full circle
Tilt fine adjust range of motion	±1.13°
Pan fine adjust range of motion	±2.5°
Level bubble	Yes circular
Graduated scale	Yes in elevation
Axis brakes	Independent braking action on coarse range of motion
Axis damping	Yes viscous in both pan and tilt
Mounting interface	Standard Instro tripod interface with 5/8"-11 UNC female drawbolt thread
Environmentally sealed	Yes (IP67)
Operational temperature range	-33°C to +55°C

Applications

- Thermal / night vision equipment support
- Multifunction binocular support
- Laser rangefinder / designator support
- Telescope and binocular support
- Communications antenna support
- Scientific instrument support

Accessories

- Generic interface adapters
- Dual payload adapter
- Carry bags
- Matching lightweight tripods
- Custom adapter assemblies

Options

- Removable steering handle
- Custom payload adapter assemblies



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