

Thor Targeting System



Why use Thor?

Thor is a compact, lightweight, precision digital goniometer with unique independently selectable fine adjust capability designed to compliment the new generation of multi function electro optical sensors.

Thor is much more than just a pan and tilt head and provides angle data in digital form to the connected sensor for use in accurate targeting computations. Where sensors do not feature target computation capability, a matching handheld computer is available.

The fully featured software of the matching handheld computer enables the user to interact with the Thor and use the resultant angle data to calculate target coordinates in a host of formats.

Sensors are mechanically connected to the Thor via a precision quick release payload interface mechanism. Electrical connection between the Thor and the mounted sensor and peripheral devices (computer, radio, GPS) is made by a combination of either rugged connector or by Instro's 'hot shoe' smart connector depending on model.



The 'hot shoe' smart connector enables cable less electrical connection between the Thor and mounted sensor. The 'hot shoe' smart connector feature can be built into the sensor or alternatively the sensor can be fitted with one of Instro's 'smart' interface adapters.

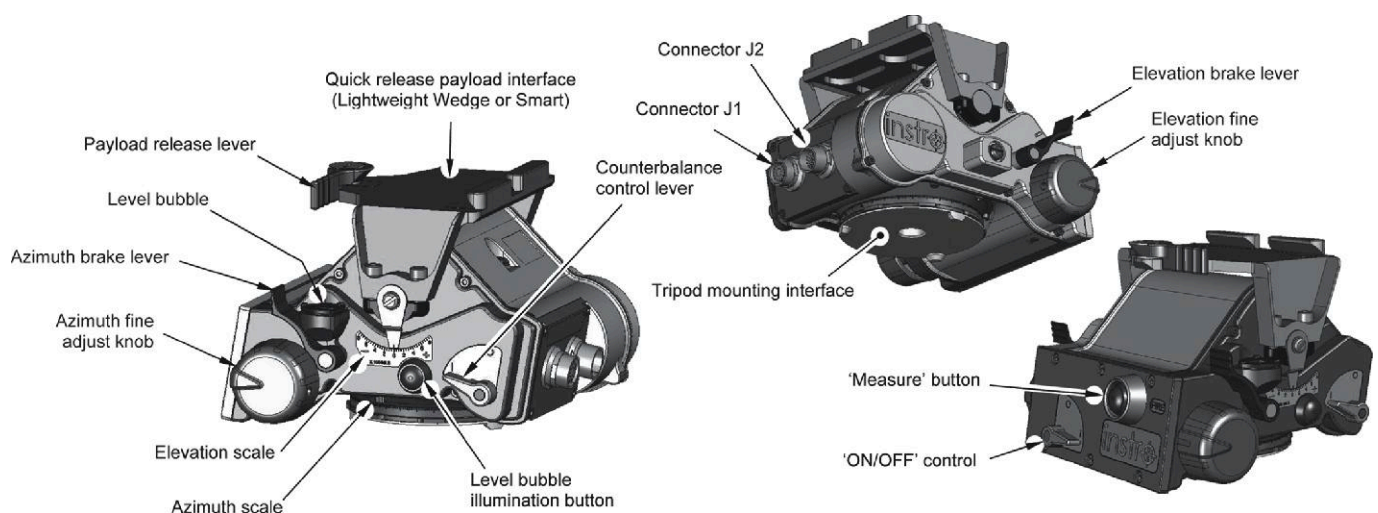
Thor uses very little power which can be derived from an external source or from the mounted sensor for convenience.



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Outline Specification

Weight (approx)	2.5kg (5.5lbs)
Payload capacity	12kg (26.4lbs)
Payload interface (mechanical)	Quick release interface requiring compatible sensor adapter
Mounting interface	Standard Instro tripod interface with 5/8" - 11 UNC female drawbolt thread
Elevation movement	±45° (800mil*)
Azimuth movement	Unrestricted, 360° full circle (6400mil*)
Positional accuracy	0.028° 1σ (0.5mil 1σ) in both axis with respect to North reference
Mechanical scales	Yes
Brakes	Independent in both azimuth and elevation
Fine adjust	Yes - in both azimuth and elevation
Counterbalance springs	Yes - selectable (on / off)
Fire button	Yes
Level bubble	Circular level bubble facilitating leveling to within ±0.5mil*
Digital magnetic compass	Optional
Hand held computer	Optional
Target computation	Yes - via optional hand held computer and embedded software
Night time use	Yes, Level bubble is electrically illuminated
Operating Voltage	6 - 32Vdc
Electrical Connections	Cable less 'smart' interface or conventional rugged connectors
Communications	RS422
Operational temperature range	-32°C to +55°C *360° = 6400mil



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