

Targeting System

Compact Lightweight Modular Target Acquisition System based around Instro's THOR Digital Goniometer and Targeting App



Main Advantages & Features

- Lightweight man portable package
- Targeting computer with comprehensive target acquisition software app
- Low power consumption, high accuracy precision goniometer unit
- Matching lightweight tripod
- Angle measurement to 0.056° (1mil) with line of sight fine adjust control
- Payload quick release interface
- Reversionary mechanical scales
- DMC compatible

Applications

- Target Acquisition / Designation
- Artillery and Mortar fire control
- Special Forces, JFO and JTAC's
- Gun laying

Modern military equipment needs to be flexible so that it can be configured to suit each mission requirement.

This is true of targeting equipment where some missions will require only a handheld sensor whereas others will demand very accurate target co-ordinates requiring additional pieces of equipment.

Instro's CAT-I/II capable Targeting System has been designed specifically with this in mind, users can make tailored selections from the equipment set to specifically satisfy the needs of their assigned mission.

Accessories

- SAMOS Solar compass module
- ERMOS Gyro compass module
- MAMOS Digital compass module
- Payload interface adapters
- Dual interface for coaxial sensor mounting
- Tactical backpacks and carry pouches

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Outline Specification

Goniometer

Weight (approx)	2.5kg (5.5lbs)
Dimensions (approx)	210mm L x 174mm W x 130mm H
Construction	Aluminium with matt paint finish
Mounting	5/8" 11 UNC female for drawbolt
Payload capacity	12kg (26.5lbs)
Alternate payload	Selectable counterbalance
Payload attach	Quick release for matching adapter
Payload connection	Cable or optional Cable-Less smart interface
Elevation range	±45° (800mil)
Elevation fine adjust	±0.8436° (15mil)
Azimuth range	Unrestricted, 360° full circle
Azimuth fine adjust	±0.8436° (15mil)
Positional accuracy	0.056° (1mil) 1σ both axes
Positional resolution	0.0056° (0.1mil) 1σ both axes
Communications	RS422
System connection	38999 Style connector
Power	6 - 32Vdc
Levelling	Illuminated circular bubble
Environmentally sealed	Yes
Temperature range	-33°C to +55°C

Targeting Computer

Weight (approx)	0.54kg (1.19lbs)
Dimensions (approx)	202.7mm W x 132mm H x 18mm D
Internal battery	Yes, rechargeable
Mains charger	Yes, included
DC charger cable	Yes, included
GPS	Yes
Installed software	Targeting App
Environmentally sealed	Yes

Targeting App

Own position by:	-GPS -Resection -Manual entry
EO sensor data interface	Yes*
North orientation by:	-Known point -Manual entry -Celestial alignment -Solar compass** -Gyro Compass** -Digital compass**
World Magnetic Model	Yes
Target storage capacity	Limited only by hardware memory
Gun laying capability	Yes
Fall Of Shot correction	Yes
Standard grid systems	UTM, BNG, MGRS, LAT LONG
Other / Custom grids	Yes (Option)
Angle measurement	Mil (6400,6300,6000) Degrees (DMM,DMS)
Emergency data delete	Yes
* Integration required	
**Accessory module	

Tripod

Instro Trilite or Medium Duty family of tripods	
-Weight range	1.1kg (2.42lbs) to 2.72kg (6lbs)
-Working height range	140mm to 1500mm
-Construction	Carbon fibre or Aluminium

Options

- Digital interface to customer sensors
- Customer sensor interfacing cables
- SMART interface for Cable-Less connection to payload
- Customer grid options
- Power distribution unit with system cables



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