



Precision Systems TRIPODS

instro \oplus

Leading supplier and system integrators of
military and commercial electro-optical sensors

 instro.com  marketing@instro.com



Instro's foundation dates back to 1964 when, from its inception, it started working for the UK MoD as a precision engineering contract manufacturer.

Today, that heritage of reliable precision engineering and robust design is at the heart of our products which are fielded successfully and used extensively in more than 50 countries, globally.

Instro manufactures, supplies and supports an extensive range of cutting-edge precision technology to end users and OEMs as part of a larger system and offers a comprehensive capability as a prime supplier.

Our core products demand intricate manufacturing and production skills, ensuring a quality product you can rely on every time.

Our approach to Continuous Improvement means that we don't just settle for the status quo, but instead we challenge the norm and always strive to improve.



Customer Testimonials

"We spent significant time and resource scanning the market for mounting solutions which met our needs before finding Instro. Our users had a keen focus: low weight, with precision pointing and high stability - especially in high winds. Instro's Medium Duty Tripod and Maxi Fine Adjust delivered exactly that."

Communications System Provider

"For high accuracy positioning systems, Instro's Meerkat Fine Adjust represents best in class."

Laser Designator Provider

Instro's Tripod Range

Rugged and durable, the independent leg lengths and leg angles of our Tripod products allow for quick and easy setup on challenging terrains, and provide maximum stability for optimum deployment at critical moments.

Expertly designed with the end user in mind, they prioritise operational portability and flexibility. And when weight is a factor, we offer various material, size, and payload options to suit your specific requirements.

Our specialised engineering team can also work with you to create a bespoke product that will meet your needs - and exceed your expectations.



TriLite Tripods

Ultra Lightweight Tripod Range

Key Features

 Payload capacity 15/20/25kg



Product Benefits

- Rugged lightweight and compact design
- Short stowed length
- Wide working height range
- Designed for ease and speed of deployment
- Independently adjustable leg angle and telescopic leg length
- 5/8" 11 UNC drawbolt thread
- Claw foot
- Digital magnetic compass compatible construction
- Available in a choice of operational heights

Instro's TriLite ultra lightweight tripods are stable, rugged, high-performance support platforms suitable for a broad range of applications. A key component of military observation and border surveillance systems, TriLite is an ideal match for hand-held sensors used with manual pan and tilt or light motorised heads.

TriLite has a tough general-purpose design constructed from either carbon fibre or aluminium with independently adjustable leg angles and leg lengths for ease of setup on difficult terrain.

The TriLite ultra lightweight tripod is available in three operating heights, compact, medium or high, catering for a wide range of applications whether the user is prone, sitting or standing.

Applications

- Remote observation and surveillance cameras
- Artillery and mortar fire control
- Cooled and uncooled thermal night vision equipment
- Counter IED sensor
- Scientific instrument support e.g. weather or CBRN monitoring equipment

Accessories

- Ground anchor kit
- Ground pin set
- Cordura carry case



Above: TriLite Tripod, Top: TriLite Tripod in stowed position

Specifications	Compact	Medium	High
Construction A	Aluminium construction with a black anodised finish		
Construction C	Carbon fibre composite material and aluminium construction with a tough black anodised and paint finish		
Weight A	1.3kg (2.86lbs)	1.42kg (3.13lbs)	2.4kg (5.29lbs)
Weight C	1.1kg (2.42lbs)	1.2kg (2.64lbs)	1.9kg (4.18lbs)
Minimum working height	140mm (5.5")	173mm (6.8")	260mm (10.2")
Maximum working height	520mm (20.5")	711mm (28")	1450mm (5.71")
Stowed dimensions	Ø126mmx363 (Ø5"x14.3")	Ø126mmx473mm (Ø5"x18.6")	Ø126mmx670mm (Ø5"x26.4")
Nominal payload	25kg (55lbs)	20kg (44lbs)	15kg (33lbs)
Operating temp. range	-40°C to +58°C		
Storage temp. range	-46°C to +71°C		



Meerkat Tripod

Lightweight Integrated Pan & Tilt Compact Tripod

Key Features

 Payload capacity 10kg



Product Benefits

- Combined lightweight tripod with pan and tilt capability
- Short stowed length
- Independently adjustable leg angle and length (telescopic)
- 10kg nominal payload
- Very lightweight – truly man portable
- Independent brakes for pan and tilt
- Standard 1/4" or 3/8" camera interface or quick release interface versions available
- Digital magnetic compass compatible construction
- Expandable – Payload adapters are available to suit most payloads
- Rugged and durable, easy to use and deploy

Specifications

Specifications	Meerkat
Construction	Aluminium/composite material
Weight	<2.35kg (5.18lbs)
Minimum working height	270mm (10.6")
Maximum working height	1560mm (61.4")
Stowed dimensions	Ø127mm x 720mm (5" x 28.3")
Nominal payload	10kg (22lbs)
Operating temp. range	-32°C to +55°C
Storage temp. range	-46°C to +71°C
Elevation range	±45°
Azimuth range	Unrestricted, ±360°
Torque	<4.5NM

Applications

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

Options

- Tripod height
- Azimuth scale ring with vernier
- Custom payload adapter assemblies

Accessories

- Azimuth scale ring with vernier
- Generic interface adapters
- Dual payload adapter
- Carry bags
- Footplate and pin sets






Meerkat Tripod

Meerkat Fine Adjust Tripod

Ultra Lightweight Compact Fine Adjust Pan & Tilt Tripod

Key Features

-  Payload capacity 8kg
-  Level Bubble
-  IP67 Environmentally Sealed



Product Benefits

- Rugged lightweight and compact design
- Designed for ease and speed of deployment
- Independently adjustable leg angle and telescopic leg length
- Integrated pan and tilt unit with independent axis braking action
- Line of sight fine adjust mechanism in both pan and tilt
- Circular level bubble
- Unrestricted coarse pan range
- Full +/- 45° coarse tilt range
- Digital magnetic compass compatible construction
- Choice of operational heights available

Specifications

	Meerkat Fine Adjust
Construction	Carbon fibre composite material and aluminium construction with a tough non reflective finish
Weight	<1.25kg (2.75lbs)
Minimum working height	203mm (7.99")
Maximum working height	589mm (23.19")
Stowed dimensions	Ø136mm x 428mm (5.53" x 16.85")
Nominal payload	8kg (17.6lbs)
Operating temp. range	-33°C to +55°C
Elevation range	±45°
Azimuth range	Unrestricted, ±360°
Fine Adjust Elevation range	±0.8438°
Fine Adjust Azimuth Range	±0.8438°

Applications

- Multifunction binocular
- Night time survey using thermal and night vision equipment
- Surveillance, video and still camera
- Laser rangefinder/designator

Options

- Tripod height
- Tripod colour
- Custom payload adapter assemblies
- Angular measurement (Digital Meerkat) available

Accessories

- Standard interface adapters – 1/4" 20 UNC -3/8 BSW
- Dual payload adapter
- Footplate and pin sets
- Carry pouches



Meerkat Fine Adjust Tripod

Medium Duty Tripod

Lightweight Stable Commercial Tripod

Key Features

 Payload capacity 50kg



Product Benefits

- Lightweight – man-portable
- Wide working height range
- 50kg nominal payload
- Rugged durable and easy to use. Designed for ease and speed of deployment
- Independently adjustable leg angle and telescopic leg length
- 5/8" 11 UNC draw bolt thread
- Interchangeable feet, general purpose claw feet supplied as standard
- Other foot types available to suit differing terrain, sand, snow, urban
- Digital magnetic compass compatible construction

Specifications

	Medium Duty Tripod
Construction	Aluminium construction with a tough black anodised finish
Weight	2.72kg (6lbs)
Minimum working height	210mm (8.3")
Maximum working height	1500mm (59.1")
Stowed dimensions	Ø130mm x 700mm (5.1" x 27.6")
Nominal payload	50kg (110lbs)
Operating temp. range	-33°C to +71°C
Storage temp. range	-46°C to +71°C

Applications

- Motorised surveillance platform support
- Microwave and satellite communication dish support
- Dismounted radar support
- Thermal camera/night vision systems
- Laser range finder or designator systems
- Long range observation posts
- Professional video and still camera support
- Scientific instrument support; e.g. meteorological or gas monitoring equipment
- Emergency services; e.g. fire, police

Options

- Interchangeable feet types: ski, large spike, small spike, pivot and rubber ball

Accessories

- Ground pin set
- Ground anchor set



Left: Optional rubber ball foot; Right; Foot plate and pin set

Heavy Duty Tripod

High-Strength Industrial Tripod

Key Features

 Payload capacity 100kg



Product Benefits

- 100kg nominal payload
- Wide operational height range
- Rugged, durable and torsionally stiff
- Designed for ease and speed of deployment
- Suitable for uneven terrain
- Independently adjustable leg length
- Independently adjustable leg angle
- 5/8" 11 UNC drawbolt tread

Specifications

	Heavy Duty Tripod
Construction	Heavy duty aluminium construction with a tough black anodised finish
Weight	7.5kg (16.5lbs)
Minimum working height	320mm (12.4")
Maximum working height	1130mm (44.4")
Stowed Dimensions	Ø220mm x 740mm (8.7" x 29.1")
Nominal payload	100kg (220lbs)
Operating temp range	-33°C to +55°C
Storage temp range	-46°C to +71°C

Applications

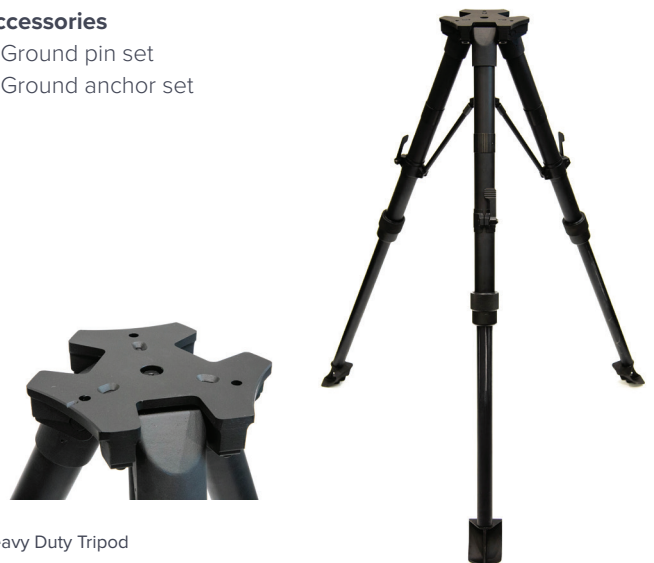
- Motorised surveillance platform support
- Microwave and satellite communication dish support
- Dismounted radar support
- Thermal camera/night vision systems
- Laser range finder or designator systems
- Long range observation posts
- Professional video and still camera support
- Scientific instrument support; e.g. meteorological or gas monitoring equipment
- Emergency services; e.g. fire, police

Options

- Interchangeable feet types: ski, large spike, small spike, pivot and rubber ball

Accessories

- Ground pin set
- Ground anchor set



Heavy Duty Tripod

Bulldog Tripod

Torsionally Stiff Tripod for Rotating Payloads

Key Features

 Payload capacity 40kg



Product Benefits

- Man portable
- Wide working height range
- 40kg nominal payload
- Rugged and durable and easy to use
- Designed for ease and speed of deployment
- Torsionally stiff, ideal for rotating payloads
- Independently adjustable leg angle and telescopic leg length
- 5/8" 11 UNC drawbolt thread

Specifications

Specifications	Bulldog
Construction	Heavy duty aluminium construction with a tough black anodised and paint finish
Weight	4kg (8.8lbs)
Minimum working height	160mm (6.3")
Maximum working height	1080mm (42.5")
Stowed dimensions	Ø180mm x 730mm (7.1" x 28.7")
Nominal payload	40kg (88lbs)
Operating temp. range	-33°C to +71°C
Storage temp. range	-46°C to +71°C

Applications

- Motorised surveillance platform support
- Microwave and satellite communication dish support
- Dismounted radar support
- Thermal camera/night vision systems
- Laser range finder or designator systems
- Long range observation posts
- Professional video and still camera support
- Scientific instrument support; e.g. meteorological or gas monitoring equipment
- Emergency services; e.g. fire, police

Accessories

- Ground pin set
- Ground anchor set



Bulldog Tripod

Groundmaster Tripod

Durable Tripod for Heavy Duty Applications

Key Features

 Payload capacity 250kg



Product Benefits

- 250kg nominal payload
- Wide working height range
- Rugged durable and easy to use
- Designed for ease and speed of deployment
- Torsionally stiff, ideal for rotating payloads
- Independently adjustable telescopic leg length
- 5/8" 11 UNC drawbolt thread
- Payload mounting holes

Specifications

Specifications	Groundmaster
Construction	Heavy duty aluminium construction with a tough black anodised and paint finish
Weight	15kg (33lbs)
Minimum working height	610mm (24")
Maximum working height	900mm (35.4")
Stowed dimensions	Ø200mm x 900mm (7.9" x 35.4")
Nominal payload	250kg (551lbs)
Operating temp. range	-33°C to +71°C
Storage temp. range	-46°C to +71°C

Applications

- Multifunction motorised surveillance platform support
- Microwave and satellite communication dish support
- Dismounted radar support
- Thermal camera/night vision systems
- Scientific instrument support; e.g. meteorological or gas monitoring equipment
- Long-range observation posts
- Professional video and still camera support

Accessories

- Ground anchor kit
- Ground pin set
- Interface adapter for Mantis motorised head
- Padded carry bag



Groundmaster Tripod

instro



Sentinel House, Artillery Way, Discovery Park, Sandwich, Kent, CT13 9FL

2023-08 © Instro Precision Limited

This publication is for general information only. Instro assumes no responsibility for any errors or omissions and reserves the right to alter the product specifications without prior notice.

 instro.com  marketing@instro.com  01843 604 455