



SICHER
PROTECTIONS LTD.

MINIDDO
TOTAL PROTECTION
Intelligent Instrument Protective Case





Advanced Protective System for Tripod-Mounted Total Stations & Laser Scanners

MiniPro is an intelligent airbag protection system designed to safeguard high-value surveying instruments from accidental tripod falls. Using real-time sensor monitoring and ultra-fast deployment technology, MiniPro activates before impact, significantly reducing the risk of costly damage and downtime. Developed and manufactured in the UAE, MiniPro combines precision engineering, smart detection algorithms, and a durable, lightweight design for professional surveying environments.





Real-time sensors constantly monitor the instrument, detecting risk the moment it happens.

The airbag utilises intelligent algorithms to react instantly to a sudden impact.

The airbag deploys in mid-air before impact, ensuring accurate and reliable protection for the instrument.

MINIPRO

Ultra-Fast Airbag Deployment

High-speed intelligent algorithm processes data in real time

Airbag deployment triggered in approximately 0.01 seconds

Airbag fully inflates before the instrument reaches the ground

Provides precise, targeted protection at the moment of highest risk



Why Choose MINIPRO?

● Smart, Automatic Protection

Automatically detects genuine tripod fall events and deploys the airbag in milliseconds, helping protect valuable surveying instruments before impact occurs.

● Lightweight & Non-Intrusive

Lightweight, flexible protective fabric designed to avoid interfering with instrument setup, operation, or workflow, while remaining easy to transport between sites.

● Long-Lasting Rechargeable Power

Dual rechargeable Li-ion batteries provide up to 60 hours of continuous operation, supporting long field sessions with minimal downtime or charging interruptions.

● Smart Lock & Placement Detection

Integrated placement detection ensures the system operates only when correctly mounted on a tripod, preventing incorrect use and unintended airbag deployment.

● Built for Tough Environments

Designed for demanding outdoor conditions, resistant to rain and dust, and engineered to operate reliably in temperatures from -40°C to $+65^{\circ}\text{C}$.

● Universal & Reusable

Compatible with all major surveying instruments and tripods. After deployment, the airbag can be recycled and reactivated at low cost in the UK, reducing long-term ownership costs.



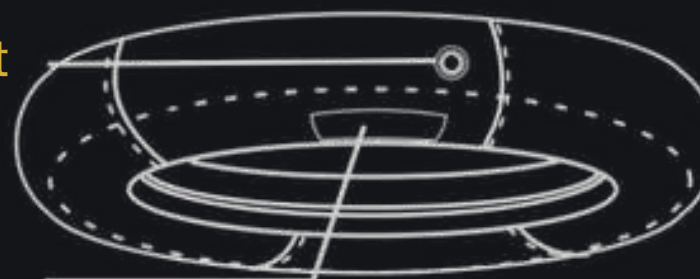
Airbag area



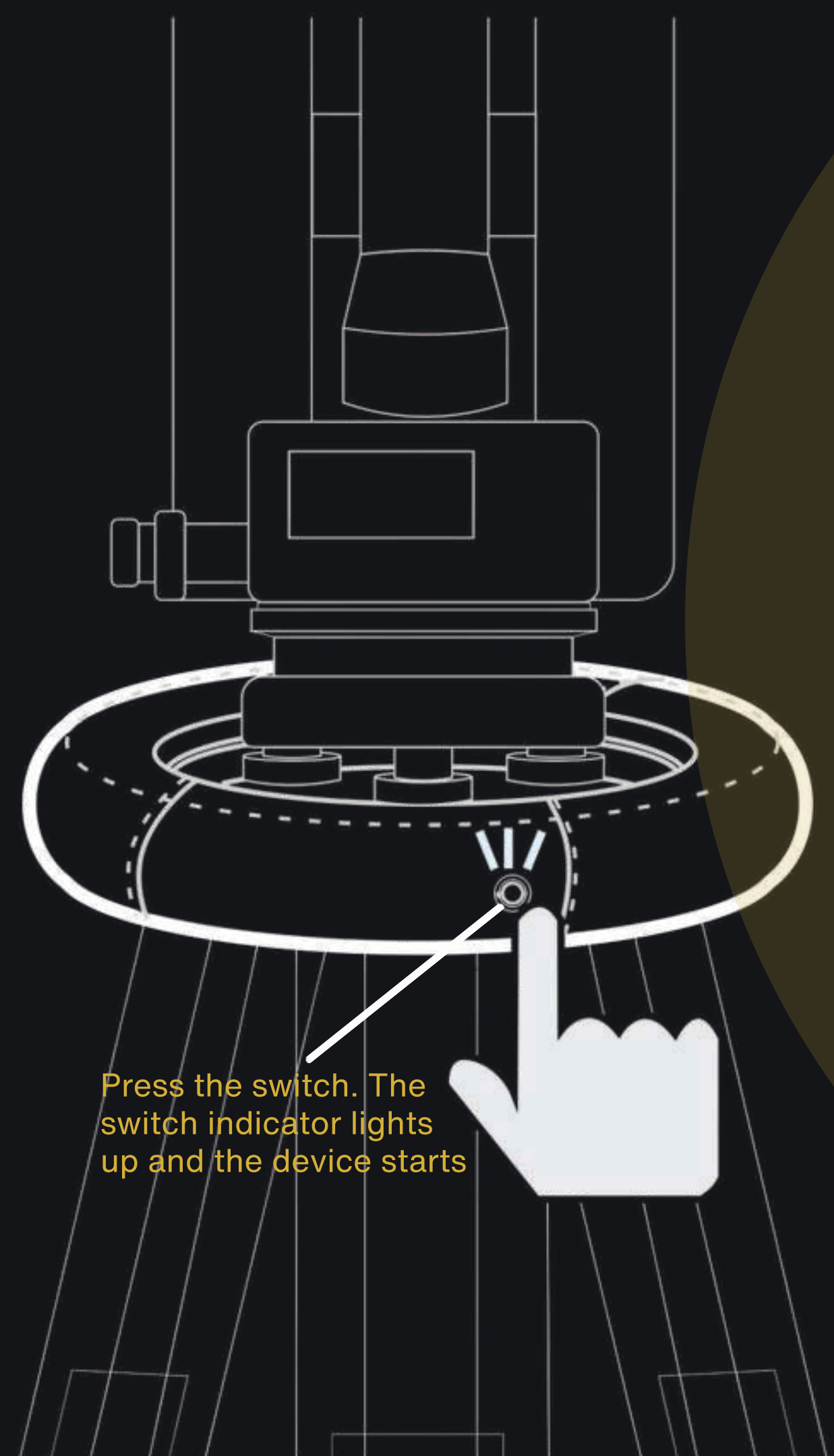
Air cylinder module
Chip motherboard



Switch, indicator light



Battery :
2pcs 18650 Battery 3.7 V
@3500mAh



Press the switch. The
switch indicator lights
up and the device starts

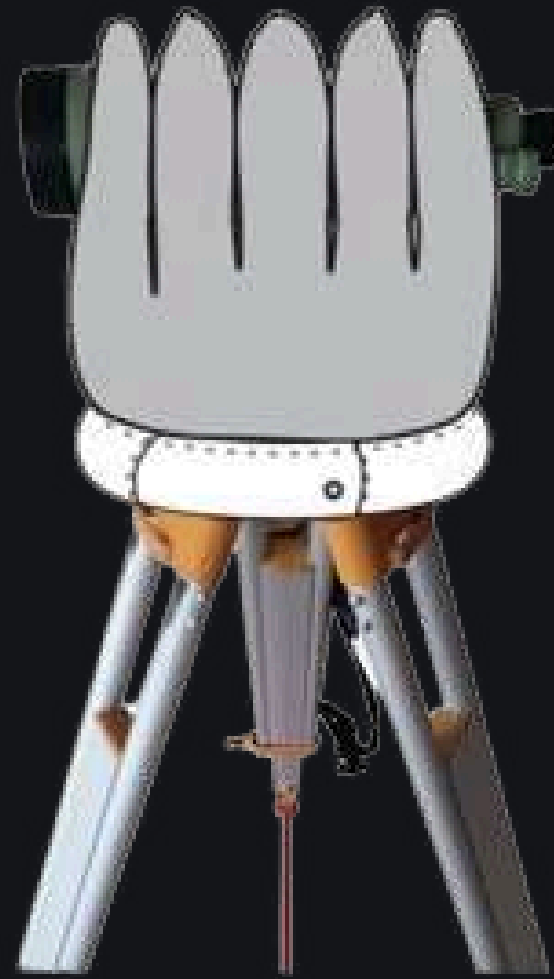
Compatibility

- Compatible with all round tripod heads with a 165 mm diameter (standard surveying tripods)
- Compatible with other tripod (triangle) with the use of an adopter

Compatible with all professional surveying brands: GeoMax, Trimble, Leica, FARO

Application Instrument Type

Leveling device



Longitude and Latitude



Longitude and Latitude



Signal Indication



Green Light is always on: Normal operation of the equipment, the Power is Sufficient

Sicher Error Codes

LED

Sound

Trigger/Gas

Red and Yellow Alternate

Continues Beep

Interlock Error

Yellow

Fast Continues Beep

Battery Low

RED

Dual-Tone

Sensor/System Error

Yellow



Recycling

Each device can be reset and reactivated up to 5 times per unit

Recycling and testing can be Undertaken by all authorized dealers and resellers. check alignment, theres a space before recycling

Warranty & Guarantee

2-year manufacturer warranty

Covers fabric cracks and manufacturing defectscturer warranty

MINIPRO





What's in the Box

MiniPro Airbag Protection Device

Dual 18650 Li-ion batteries

Battery charger

User manual and product catalogue

Product identity card with unique barcode
(warranty tracking)

Plastic adopter ring for triangular teipod
head.



Official Distribution Partners





MINIPRO In Action





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