MPH INDUSTRIES®

Advantage™ Mapping & Measuring Solutions

Complete Solutions for All Your Professional Measurement Needs

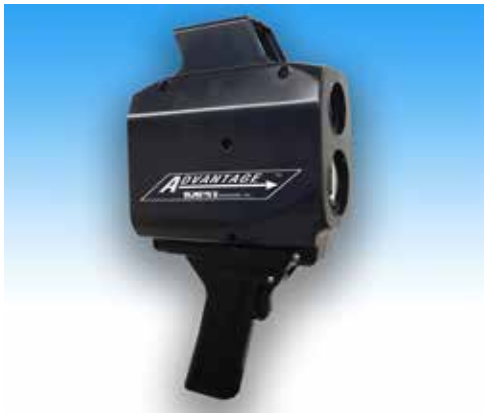
POLICE RADAR • POLICE LASERS • SURVEY LASERS • SPEED SIGNS

Advantage R

Available as RO, CI or CIL*

- Rugged, heavy duty design with protective rubber bumpers
- Compatible with most professional GPS systems
- Bluetooth patented technology available
- Simple to use plain-language menu
- Single person operation

Advantage S



Available as RO, CI or CIL*

- Smaller, lighter version with the same features as the Advantage R
- Compatible with most professional GPS systems
- Bluetooth patented technology available
- Simple to use plain-language menu
- Single person operation

Advantage B

Available as RO only*

- Slim and compact binocular design
- Built-in batteries
- Auto rotate heads up display
- Hand held or mounts on tripod
- Same feautres and performance as the RO and SO models
- Simple to use plain language menu

RO=Range Only / CI=Compass & Inclinometer / CIL=Compass, Inclinometer & Lugs

Geospatial Mapping

The Advantage systems are highly versatile measuring tools that let a single operator stand at a convenient vantage point and quickly acquire data on anything in sight to generate coordinate data and remote GPS positions. For GIS and GPS mapping, construction, excavation, as-builts, take-offs and rough surveying, nothing is as simple and quick as operating an Advantage Laser System.

Measuring

Measuring volume, wire lines and poles, communications towers, bridge piers, ships, trees, industrial areas, rock & face profiling, mapping and others are no small task unless you use the Advantage Laser Measurement System available from Laser Atlanta. If it's too tall, too dangerous, too large or locked behind a gate, as long as you can see it, the Advantage can measure it.

Measure Area, Clearance, Elevation, Distance, Diameter, Height, Volume, Position, *and More!*

A Wide Selection of Configurations for Your Measurement Needs

Compatible with most GPS Systems
Place GPS antenna directly above rangefinder for higher accuracy readings and provides all-day comfort for any Advantage application or use.

High-Precision Encoding Tripods
Vertical, horizontal or dual encoder bypasses compass and/or inclinometer functions for accuracies of ± .05 degree.

Internal Compass
Measures bearing, angles or horizontal distances with an all-digital compass with outputs accurate to 1 degree.

Internal Inlinometer
Gathers incline, vertical and elevation measurement data with an all-digital compass with outputs accurate to 1 degree.

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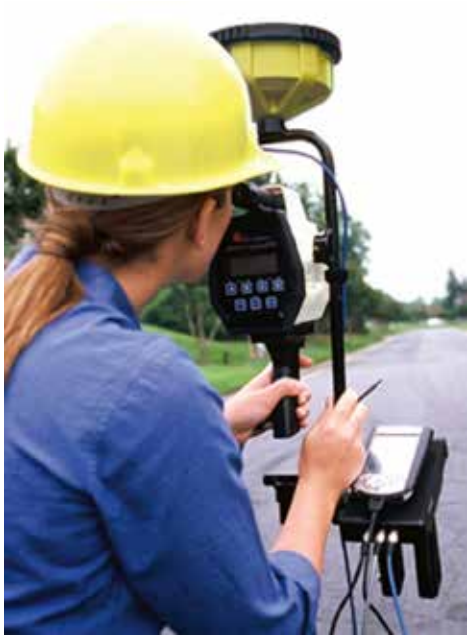
Advantage™ Rangefinder Specifications

Dimensions	(R):	4.5w x7.5h x 8.4d in. (11.5w x 19h x 21.5d cm)
	(S):	3.8w x 7.3h x 6.4d in. (9.6w x 18.5h x 16.2d cm)
	(B):	5.7w x 3.2h x 6.5d in. (14.5w x 8.1h x 16.5d cm)
Weight:	(R):	4.8 lbs with battery (2.2kg)
	(S):	3.9 lbs with battery (1.77kg)
	(B):	2.6 lbs with battery (1.5kg)
Temperature:		Operating: -22 to 140ºF (-30 to 60ºC) Storage: -40 to 176ºF (-40 to 80ºC)
Humidity:		90% non-condensing
Environmental:		Water and dust resistant
Head-up display:		LED aiming sights and 1 line x 4 character readout
Rear panel display:		4 line x 20 character LCD
Keyboard:		Membrane keypad
Data:		RS-232 serial port. Optional memory slot for SD card & USB drive
Power source:		Rechargeable battery handles, Nickel Metal Hydride (NiMh) 4 to 6 hours battery life
Recharge time:		Standard: 8-10 hours
Measurement time:		0.33 seconds minimum
Range:		2,000 ft (600m) passive 30,000 ft (9,100m) to prism
Accuracy:		±6in. (15cm), 3 sigma (or 99.73%)
Resolution:		0.1 ft (1cm)
Inclinometer		
Type:		Dual axis liquid
Range:		± 50º from level
Accuracy:		± 0.4º
Resolution:		0.1º
Repeatability:		± 0.3º
Compass		
Type:		Triaxial magnetometer
Range:		0.0 to 359.9º
Accuracy:		± 1º RMS when level
Resolution:		0.1º
Repeatability:		± 0.3º



Advantage System Description

The Advantage Systems consist of several sophisticated technologies including a heads-up LED display, Laser transmitter and receiver, inclinometer and compass (on some models), keypad with LCD display, power supply and housing.

The heads-up display LED has aiming sights and the user can select to view readings for range, distance, inclination, bearing or rotate between all three values. The rear LCD screen also displays these measurement values on a continual basis and presents the data in an easy-to-understand format by use of an easy-to-navigate keypad menu.

Inclinometer and compass functions are internal and can be augmented with an encoding tripod. Optional onboard memory slot for SD card and USB drive captures shot data simultaneously with the RS232 port to which a data collection device can be attached. The R and S systems are compatible with most GPS systems and RS232 devices. Power is supplied by a rechargeable NiMh battery. The complete line of Advantage rangefinders include a one-year warranty.

Ordering

Advantage R Range Only (RO) p/n 3R01
Includes Advantage rangefinder, one rechargeable NiMh battery handle, softside carry case, 120VAC charging cord and user manual.

Advantage S Range Only (RO) p/n 3S01
Includes Advantage rangefinder, one rechargeable NiMh battery handle, softside carry case, 120VAC charging cord and user manual.

Advantage B Range Only (RO) p/n 3B01
Includes Advantage rangefinder, one rechargeable NiMh battery,, softside carry case, 120VAC charging cord and user manual.

Advantage Base Package (CI)
Model R p/n 3RCI, Model S p/n 3SCI
Includes Advantage rangefinder, internal compass and inclinometer, one rechargeable NiMh battery handle, softside carry case, 120VAC charging cord and user manual.

Options

Monopole and yoke set - p/n 5YS0

Bogan tripod - p/n 5TB0

Smart charging battery station - p/n 5CS0 (includes 120VAC and 12VDC cigarette lighter power cords)

Bluetooth communicator - p/n ARB0

Pelican hardshell case w/ custom foam insert p/n 5PP0

8x monocular - p/n 5MR0 (scope on tip-off mount)

SD/USB memory slot - p/n ASU0 (media not included)

Lugs - p/n ARL0

Serial cable - p/n 5BR0

Car charger cable - p/n 5BM0

Encoding Tripod Specifications	Vertical Encoder p/n 5TV0	Horizontal Encoder p/n 5TH0	Dual Encoder p/n 5TD0
Type	8,000 Count Total	8,000 Count Total	8,000 Count Total
Range	Limited to Tripod Movement	0 to 359.95°	Contains Both Ranges
Accuracy	± 0.05°	± 0.05°	± 0.08° / 0.05°
Resolution	± 0.05°	± 0.05°	± 0.05°
Repeatability	± 0.05°	± 0.05°	± 0.05°

Encoding Tripod