

## NEW: Walkabout Mapper DGPS System

### Integrated DGPS System

A complete DGPS/Laser system that is ready to work straight from the box with no integration down time.

#### One Solution for so Many Uses

GIS and GPS mapping, construction and excavation as-builts and take-offs, rough surveying - for any terrain information gathering needs - nothing is as simple and quick as the **Advantage Walkabout Laser System**. The **Advantage Walkabout** system is a highly flexible tool that lets a single operator stand at a convenient vantage point and quickly acquire anything in sight to generate coordinate data and remote GPS positions.

- Target a feature in the head-up display and pull the trigger to take a measurement
- Single-person operation or use with reflector/surveyor pole
- Displays measurement values in head-up display and on rear LCD screen



Easy to use menu and clearly displayed readings on screen and in head-up display

- Fully integrated system including Advantage Laser, DGPS Antenna, Data Collector and support pole in a single fitted case.
- Powerful and versatile field data collection software
- Simple to use, plain-language menu
- Just a few minutes from case to measuring, even full-featured configurations are fast to set up
- Super-rugged design guards against accidental damage
- Internal compass and inclinometer
- System in a portable, durable carrying case
- Measures to a vertical surface 2,000 feet/600 meters away and prisms up to 30,000 feet/9,100 meters
- Perfect for rough, congested terrain or any other inaccessible and dangerous areas
- Solves GPS point acquisition difficulties in forested, covered locations

Turns tedious, difficult work into a fast and simple task, saving you precious time and expense

- Record values to a data collector, handheld computer that uses field data collection Software with easy to use tab-based menu structure and powerful mapping capability
- Integral DGPS antenna cum receiver with 12 channel GPS and 2 channel beacon receiver

#### Versatile Software for Your Data Collection Needs

The **Advantage Walkabout** laser measurement system software package offers a complete array of capabilities, including complete graphic mapping, ability to import and export DXF files for Autocad (and Microstation) and SHP files for ESRI (GIS Applications). Salient features include:

- Map view with full range of Zoom, Pan and Point plotting options
- Full State Plane (27/38) and UTM Map projection flexibility
- Base or rover localization in GPS
- Points plot on MAP screen as they are shot in the field or entered
- office software donload package with raw data editing and processing

#### All-In-One Antenna / Receiver Unit

This all-in-one Antenna/Receiver unit has been specifically designed to interface directly with systems like the **Advantage Walkabout** laser system. No need for separate differential units, no need for external antennas and especially no need for splitters or a crow's nest of wires.

- 12 channel L1 "Indigo" receiver, with 1- 2 m accuracy in DGPS mode
- Dual Frequency Beacon receiver
- Differential error-correction signals from U.S. Coast Guard DGPS beacons, provides accuracy of 1-2 meters



All System Components Incorporated in a single fitted case

## Advantage<sup>TM</sup> Walkabout Mapper Specifications

Dimensions:	w4.5 x h7.5 x l8.4 in. (w11.5 x h19.0 x l21.5 cm)
Weight:	4.8 pounds with battery (2.2kg)
Temperature:	Operating: -22°F to 140°F (-30°C to 60°C) Storage: -40°F to 176°F (-40°C to 80°C)
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 PCMCIA slot for SRAM Type 2 card
Power source:	Rechargeable battery handles, Nickel Metal Hydride (Nimh)
Recharge time:	Standard: 8-10 hours Smart charging station: 2 hours for 2 batteries
Light source:	Semiconductor pulsed laser 904nm
Laser:	FDA Class 1 eye-safe (21 CFR 1040)
Divergence:	3 milliradians (30cm/100m)
Measurement type:	Time of flight, averaged across at least 72 pulses
Measurement time:	0.33 seconds minimum
Range:	2,000 ft (600m) passive 30,000 ft (9,100m) to prism
Accuracy:	+/- 0.50 feet ( 15.2 cm) 3 sigma +/- 0.25 feet ( 7.6 cm) 1 sigma
Resolution:	0.1 ft (1cm)
Compass	
Type:	Triaxial magnetometer
Range:	0.0° to 359.9°
Accuracy:	± 1° RMS when level
Resolution:	0.1°
Repeatability:	± 0.3°
Inclinometer	
Type:	Dual Axis Liquid
Range:	± 50° from level
Accuracy:	± 0.4°
Resolution:	0.1°
Repeatability:	± 0.3°

## Advantage Walkabout Mapper System Description

The Laser Atlanta Advantage Walkabout Mapper laser system has **GE Lexan ABS** alloy housing constructed with space between outer case and inner components & Rubber bumpers for shock resistance.

The **head-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 continually updated measurement values and presents a plain-language system menu.

The Walkabout Mapper Laser System features an **all-in-one antenna /receiver** unit encased in a **rugged**, fieldworthy housing designed to ensure uninterrupted data collection even in the toughest environments.

The data collection software is a **versatile** package with powerful graphics capability that is easy to use.

Power is supplied by a **rechargeable** nickel metal hydride battery handle. The unit includes a one-year warranty.

### Antenna

Size:	Height: 3.5in (89mm) Diameter: 5.5in (129mm)
Weight:	5660 grams
Accuracy:	3-5 meters
Case Type:	UV Stable Plastic Radome
Supply Voltage:	10.5 - 32 VDC
Operating Temp:	-25° C to +60° C

### GPS Receiver Specifications

GPS Channels:	12 Channel Parallel Automatic Selection
Time to fix (cold start):	120s Typical, 150s 90% probable
Time to fix (warm start):	48s typical, 60s 90% probable
Re-acquisition time:	2s Typical
Update rate:	Once per second continuous
Serial interface Prot.:	RS232, 4800 baud, 8, N, 1
Datum:	WGS84

### Beacon Receiver

Receiver frequency:	283.5-325.0 KHz (worldwide)
Antenna type:	H-field, Torodial
Number of channels:	2, Fully automatic
Serial protocol:	RTCM SC-104
Demodulation:	MSK
Bit rates:	25, 50, 100, 200 (auto sel.)



## Ordering

### Advantage CI Base Package

p/n 3RC1  
Includes Advantage CI Laser, One Battery Handle, 120VAC Charger, Advantage Manual

### Walkabout Mapper System

p/n 6W00  
Includes Walkabout Case, Battery Handle, Handheld PC, Handheld PC Storage Card, GIS Walkabout Software, Handheld to Laser Cable, Smart Charging Station, Monopole, Monopole Yoke, RS232 Extension Cable, Walkabout Power Tray and Walkabout Users Manual

## Options

### Bogen Tripod

Part Number: 5TBO

### Monopole & Yoke Set

Part Number: 5YSO

### Add BLUETOOTH Technology

Part Number: ASBN

### Smart charging battery station

Part Number: 5CSO  
Includes 120VAC and 12VDC cigarette lighter power cords.

### Battery handle

Part Number: 5HTO  
Spare battery for extended use.

### 8x monocular

Part Number: 5MR0  
Scope on tip-off mount.

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