

- NEW: Bluetooth Technology now available
- Simple to use, plain-language menu
- Safely measure out of reach locations from a safe position
- Super-rugged design guards against accidental damage
- Internal compass and inclinometer
- Lightweight, compact system in a portable, durable carrying case
- Variety of data collection methods, Compatible with most GPS, GIS and COGO systems and software
- 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 area
- A few moments to get data for accurate shot hole placement
- 8X Monocular Scope Available

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

Measurement Systems for Professionals

Advantage[™] Blasting/Mining/Profiling System

This Tool Makes Pre-Blast Profiling Fast

To be used on-site, in real-time, on a daily basis, at virtually all mining production sites.

Fast and Accurate Measurements

Drilling and blasting represent 10-16% of the total cost per ton (New Quarry Process Concept). To Maximize Performance and Minimize costs, stop estimating burdens and evaluating manual measurements for best-guess scenarios. The Profiler II laser lets you gather face profiles and instantly display burdens from the pit floor.



- Perform Geotechnical surveys in inaccessible areas
- Watch for changes in surfaces
- Evaluate tunnels
- Create Blast Plans



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

- Single-person operation or use
- Displays measurement values in head-up display and on rear LCD screen
- Record values to a data collector, handheld computer or laptop
- Onboard PCMCIA slot for SRAM memory card stores ASCII data of each shot

Fast, in-field surface evaluations

The **Advantage** Highwall Profiler II System means greater operations efficiency and safety. Precision results lets you reduce hazardous flyrock, optimize fragmentation and monitor results.

Internal Compass

 Measures bearing, angles or horizontal distances

Internal Inclinometer

• Gathers incline, vertical and elevation measurement data

High-precision Encoding Tripods

 Vertical, horizontal or dual encoder bypasses compass and/or inclinometer functions for accuracies of ±.1 degrees

External Data Integration

 Tripod and Data Collector brackets provide hands-free field data collection for handheld computers or other data collection devices



Flexible solution for your profiling needs



Advantage™ Profiler II **Specifications**

Dimensions: w4.5 x h7.5 x l8.4 in.

(w11.5 x h19.0 x l21.5 cm)

4.8 pounds with battery Weight:

(2.2kg)

Operating: -22°F to 140°F Temperature:

(-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

Rechargeable battery Power source:

handles, Nickel Metal Hydride (NiMh)

Recharge time: Standard: 10-12 hours

> Smart charging station: 2 hours for 2 batteries

Light source: Semiconductor pulsed

laser 904nm

Laser: FDA Class 1 eye-safe

(21 CFR 1040)

3 milliradians (30cm/100m) Divergence:

Measurement type: Time of flight, averaged

across at least 72 pulses

Measurement time: 0.33 seconds minimum 2,000 ft (600m) passive Range:

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

Triaxial magnetometer Type:

0.0° to 359.9° Range: ± 1° RMS when level Accuracy:

Resolution: 0.1° Repeatability: ± 0.3°

Inclinometer

Type: Dual Axis Liquid Range: ± 50° from level

 $\pm 0.4^{\circ}$ Accuracy: Resolution: 0.1° ± 0.3° Repeatability:

Advantage **System Description**

The Laser Atlanta Advantage laser Profiler II system has GE Lexan ABS alloy housing constructed with space between outer case and inner components for shock resistance. Rubber bumpers guard against damage if dropped.

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.

Inclinometer and compass functions are internal and can be augmented with an encoding tripod. Onboard PCMCIA slot for memory card captures shot data simultaneously with the RS232 port to which a data collection device can be attached. Unit is compatible with most GPS systems and RS232 devices. Power is supplied by a rechargeable nickel metal hydride battery handle. The unit includes a one-year warranty.



Encoding Tripod Specifications

Horizontal Encoder

Immune to magnetic influence

8,000 count optical Type: Range: 0.00° to 359.95°

± 0.1° Accuracy: Resolution: 0.01° Repeatability: $\pm 0.05^{\circ}$

Vertical Encoder

Type: 8,000 count optical limited to tripod Range:

movement

 $\pm 0.08^{\circ}$ Accuracy: Resolution: 0.01° Repeatability: $\pm 0.05^{\circ}$



Ordering

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

Profiler II

p/n 6P00

Includes Handheld PC, Bogen Tripod, Profiler Field Data Collector Software, Flat Plate Cradle Assembly, Data Collector Level Bracket, Handheld to Laser Cable and Profiler II Users Manual

Options

Horizontal encoding tripod Part Number: 5TH0

Vertical encoding tripod Part Number: 5TV0 Dual encoding tripod Part Number: 5TD0

Smart charging battery station

Part Number: 5CS0 Includes 120VAC and 12VDC cigarette

lighter power cords.

Battery handle Part Number: 5HT0

Spare battery for extended use.

8x monocular Part Number: 5MR0 Scope on tip-off mount.

Hardshell Caser Part Number: 5PSO

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