

# MARKSMAN™

## HDD GUIDANCE SYSTEM

The Subsite® Marksman HDD Guidance System provides superior performance in high-interference environments with the industry's widest range of frequencies in a single beacon. It scans the most usable frequencies, selecting the best choice to avoid interference. Its increased beacon power signal improves performance at extended depths and dual-power-mode provides consistent performance across more housing sizes. Marksman is easy to use with your choice of user interface—Classic View or the new Marksman View featuring intuitive graphics and clear data—and a simple single toggle control (no extra buttons or triggers) so you're more productive from day one.

*An important part of the Green Ops process.*



### KEY FEATURES

- ⚡ Superior performance in high-noise environments with the industry's widest range of frequencies in a single beacon.
- ⚡ Scans the most-usable frequencies, selecting the best choice to avoid interference.
- ⚡ Stronger communication between tracker and beacon at extended depths (130+ feet) for more productive bores.
- ⚡ Intuitive user interfaces for ease of use; choose Classic View or the new Marksman View.
- ⚡ Advanced locating methods let you use your preferred method of locating.
  - Walkover Mode: Lets you pinpoint drill-head location with peak and null techniques
  - Drill-To Mode: Extended range enables the drill operator to make real-time corrections further out, improving bore accuracy
- ⚡ Extended Range Mode extends data range and provides stronger depth readings.
- ⚡ Single toggle control, no extra buttons or triggers to get in the way.
- ⚡ 0.1% pitch resolution for precision grade work.
- ⚡ Dual power-mode beacon allows consistent performance across housing sizes.
- ⚡ Integrated GPS standard (not an add-on) plus Bluetooth® compatibility with your preferred GPS device.
- ⚡ Fast calibration, with automatic beacon-to-tracker connection, saves time and improves productivity.
- ⚡ 2,000-foot range between the tracker and drill operator for more productivity.

# MARKSMAN HDD GUIDANCE SYSTEM SPECIFICATIONS

## TRACKER

### MARKSMAN+

|                       |   |
|-----------------------|---|
| Dimensions            | 12.5 x 7.0 x 29.1 in.<br>(317.5 x 177.8 x 739.1 mm) |
| Weight (with battery) | 7 lbs (3.2 kg)                                      |
| Operating temperature | -4 to 140°F (-20 to 60°C)                           |
| Environmental rating  | IP65  |
| Power source          | Li Ion (Inspired Energy NF2047QE34)                 |
| Battery life          | Up to 16 hours                                      |
| Display               | TFT-LCD 5 in. WVGA (800 x 480 x RGB)                |
| Audio output          | Speaker   |
| Telemetry range       | 2000 ft (610 m)                                     |
| Telemetry channels    | 5-12  |
| Accuracy              | +/- 5% over testable range                          |

## BEACON

### M17+

|                                   |                 |
|-----------------------------------|-----------------|
| Receiving frequencies             | 32              |
| Frequency range                   | 1.9 to 46 kHz   |
| Depth with normal power beacon    | 100 ft (30.5 m) |
| Depth with high power beacon      | 130 ft (39.6 m) |
| Battery Life Range (normal power) | 70 hrs          |
| Battery Life Range (high power)   | 30 hrs          |

Depth range numbers are based on SAE Standard J2520, and are dependent on battery type, frequency and housing type.

## DISPLAY

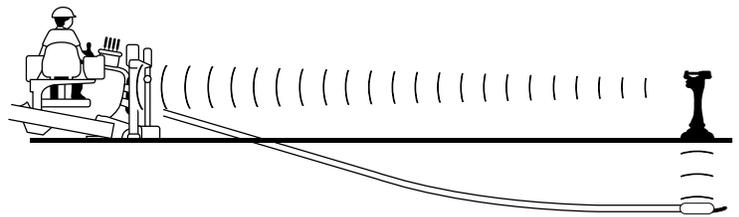
|                       |                                |
|-----------------------|--------------------------------|
| Operating temperature | -4 to 140°F (-20 - 60°C)       |
| Environmental rating  | IP66                           |
| Power source          | Powered off the HDD unit power |
| Display               | Hi-resolution graphic          |
| Telemetry range       | 2000 ft (610 m)*               |
| Telemetry channels    | 8-12                           |

### COMMANDER 7 DISPLAY

|            |  |
|------------|--|
| Dimensions | 10 x 3.7 x 6.1 in. (254 x 94 x 155 mm) |
|------------|--|

### TD RECON IN-DASH DISPLAY

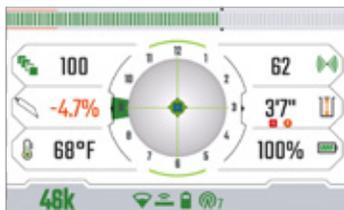
|            |  |
|------------|--|
| Dimensions | 7 x 7 x 6.5 in. (177.8 x 177.8 x 165.1 mm) |
|------------|--|



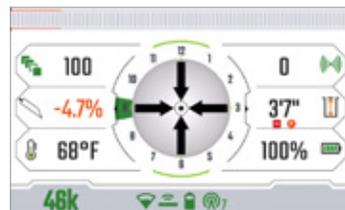
Drill-To™ Tracker



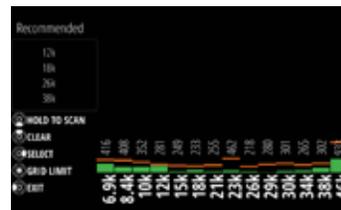
All-New Marksman™ View,  
Peak Locate



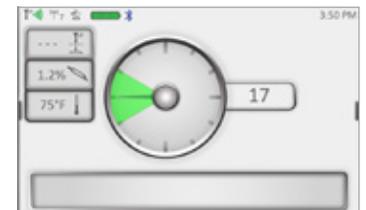
All-New Marksman™ View,  
Null Locate



Classic View, Null Locate



Bore-Path Analyzer



Commander 7 Frequency  
Change Sequence



Every step of the Green Ops process utilizes modern data-sharing technology to improve the accuracy and efficiency of the task at hand. Integrating these tools into your bore routine can reduce your risk of striking something underground, while increasing your productivity and profitability. **Save time. Make money. With Green Ops.**

Learn more at  
[SubsiteGreenOps.com](http://SubsiteGreenOps.com)

\*Due to regulations in some countries, and RF interference in the area, telemetry range may be reduced. See your Ditch Witch® dealer for more information.