

DigiTRAK® ECLIPSE®

iGPS® (inGround Positioning System)



- Revolutionary Ball-in-the-Box™ locating
- Dual-frequency capability
- Real-time transmitter location display
- Increased depth range
- Left/right and up/down remote steering
- Roll offset adjusts transmitter's clock to match drill head's clock

The DigiTrak® Eclipse® inGround Positioning System has revolutionized tracking for the HDD industry with its ability to display the drill head location and locate points in a “real-time” bird’s-eye view.

The Eclipse system offers several transmitter options for drill rig and job versatility, including a dual-frequency transmitter that allows more accurate locating at increased depths and in areas of passive (rebar) or active interference.

The Eclipse receiver provides 3D left/right and up/down remote steering data to the remote display at the drill. An easily understood menu guides you to the desired function, such as calibration, depth unit changes, or roll offset. The roll offset function adjusts the transmitter’s 12 o’clock position to match that of the drill head.

Locating with the Eclipse receiver is intuitive, making it easier than ever to find locate points and the exact position of the drill head. In the center of the display window is a box that represents the receiver. To find a locate point, you simply maneuver the receiver so that the target icon, which represents the locate point, moves into the center of the box. It’s that simple—*Ball-in-the-Box™* locating. Walk directly to the locate point from any direction—when the target is in the box, you’re on top of the locate point.

With the Eclipse receiver, as with the Mark Series receivers, when you’ve found the front locate point you can determine the left/right direction as well as the predicted depth of the drill head without stopping the drill. By being out in front of the drill head, you are actually driving or controlling it using look-ahead® locating.

The Eclipse system makes remote steering easier and more precise because you are able to program the receiver with your target depth. During Target Steering®, the tool’s depth is displayed on the remote along with a target and crosshairs to guide the drill operator’s steering commands.

System upgrades include the DataLog® Mapping System and the SST® Advanced Guidance System for difficult bores with tight turns. These upgrades provide accurate real-time drilling data and also enable the collection, download, analysis, and archiving of data.



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DigiTrak Eclipse® iGPS® Receiver

Features

- Because of the unique antenna configuration, the Eclipse system provides precise steering data to enable advanced techniques such as left/right and up/down Target Steering®.
- The overhead depth, projected depth, and slant depth are shown in real time, which allows “on-the-fly” locating.
- The dual-frequency capability allows for increased depth range and is advantageous in passive and active interference environments.
- Advanced drilling features include off-track guidance when access over the drill head is limited due to interference or obstacles.
- Multiple transmitter options for drill rig and job versatility.

DigiTrak Eclipse system is ideal for high-interference areas.



- Simplified remote steering function.
- Patented calibration procedure offers superb accuracy and the ability to recalibrate while drilling.
- Programmable target depth and direction feature.

Specifications

Model number.....	EDRR
Receiving frequencies	1.5 kHz / 12 kHz
Power source.....	DCI battery pack
Battery life.....	4 hr (approx.)
Battery charger*.....	12 VDC
Depth display.....	Real-time
Functions.....	Menu driven
Controls	Trigger switch, toggle switch
Graphic display.....	LCD
Audio output	Beeper
Telemetry range**	1800 ft (550 m)
Operating temperature range	-4 to 140° F (-20 to 60° C)
Accuracy.....	±5% absolute
Dimensions.....	12.2 x 7.2 x 14.5 in. (30.99 x 18.29 x 36.83 cm)
Width	7.2 in. (18.29 cm)
Length.....	14.5 in. (36.83 cm)
Weight (with battery).....	9.4 lb (4.3 kg)
Transmitter sleep mode	After 15 min

DigiTrak Multi-Function Display (MFD®)

The DigiTrak Multi-Function Display (MFD) features a large format graphic display with an intuitive steering indicator. The MFD remote can be used with the Eclipse, F2®, SE®, and Mark Series locators. The unit shows the same information as displayed on the receiver, and it can obtain information with the receiver 1800 ft (550 m) or farther** from the MFD remote. The information viewed on the MFD screen includes pitch, roll, transmitter temperature, and battery status. The MFD unit can be powered by a DCI battery pack or by the drill rig’s 12 VDC accessory outlet.

During Target Steering, the MFD screen shows the left/right and up/down deviation of the tool’s position. The target depth can be programmed into the Eclipse receiver to guide the drill operator to the target location. This feature is great for highway, small river, and railway crossings.

Specifications

Model number.....	MFDF
Frequency.....	1.5 kHz / 12 kHz
Power source.....	DCI battery pack
Battery life.....	8–12 hr (approx.)
Battery charger*.....	12 VDC
Controls	Pressure-sensitive touch buttons
Graphic display.....	LCD
Telemetry range**	1800 ft (550 m)
Telemetry channels.....	4 channels
Operating temperature range	-4 to 140° F (-20 to 60° C)
Dimensions.....	7.8 x 9.2 x 11.5 in. (19.81 x 23.37 x 29.21 cm)
Weight (with battery).....	6.2 lb (2.8 kg)

* Battery charger system includes an AC/DC adapter that requires 100-240 VAC.

** Telemetry range can be increased with an optional external receiving antenna.



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