

DigiTrak® ECLIPSE®

iGPS® (inGround Positioning System)



For sales and service contact your local dealer:

TRENCHLESS
UTILITY EQUIPMENT INC.

2070 Queensway Drive,
P.O. Box 1338 Burlington, ON L7R 4L9
Ph: (905) 634-0669 Fax: (905) 634-6685
info@trenchlessutility.com

- Revolutionary target-in-the-box locating
- Dual-frequency capability
- Real-time transmitter location display
- Increased depth range
- Left/right and up/down remote steering

The DigiTrak® Eclipse® inGround Positioning System (iGPS®) is a revolutionary tracking system for the HDD industry. It is the first of its kind to display the drill head location and locate points in a "real-time" bird's-eye view.

This unique tracking system advances the state of the art of locating systems in a number of ways. First, the operating frequency used in the system was selected by surveying various sites and determining the optimal interference-free operating frequency. Second, the Eclipse® dual-frequency transmitter provides a lower frequency to allow more accurate locating in areas with passive or active interference and at increased depths. Third, the patented 3D antenna configuration enables the unit to "see" the locate points and the transmitter's position and allows the operator to walk directly to either one. Additionally, the receiver provides 3D left/right and up/down remote steering data to the remote display at the drill. The large menu-driven display provides an "at-a-glance" view of all the transmitter's orientation information. The graphic format is simple, and you're not required to interpret bar graphs or arrows. An easily understood menu guides the operator to the desired function, such as calibration, self-test, ultrasonic setting, depth locating mode, etc.

The first thing you notice when locating with the Eclipse® system is the Intuitive® way of finding the locate points and finding 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 representing the locate point moves into the center of the box. It's that simple—target-in-the-box® locating. You can walk directly to the locate point from any direction—once the target is in the box, you'll be on top of the locate point.

With the DigiTrak® 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 DigiTrak® Eclipse® system makes remote steering easier and more precise because you are able to program in your target depth. During remote steering, the actual depth is displayed. A target and cross-hair display helps the operator achieve accurate depth and left/right positioning of the tool.

The Eclipse® receiver employs the standard DigiTrak® NiCad battery pack and charger. The Eclipse® transmitters are the same size as the Mark series DigiTrak® transmitters, so the Eclipse® system can be used without any tooling changes.



DCI® DIGITAL
CONTROL
INCORPORATED

www.digitrak.com

With offices in the United States, Germany, Australia, and China



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 remote steering.
- ◆ The overhead depth, projected depth, and slant depth are presented in real time.
- ◆ 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.
- ◆ Simplified remote steering function.
- ◆ Patented calibration procedure offers superb accuracy and the ability to recalibrate while drilling.



DigiTrak ° Eclipse ° system is ideal for high-interference areas.

- ◆ The display shows real-time movement of the transmitter to allow “on-the-fly” locating.
- ◆ Programmable target depth and direction feature.

Specifications

Model number	EDRR
Frequency	1.5 kHz / 12 kHz
Power source	DigiTrak ° NiCad battery pack
Battery life	8–12 hr (approx.)
Battery charger	12/28 V DC or 110/220 V AC
Depth display	Real time
Functions	Menu driven
Controls	Trigger switch, toggle switch
Graphic display	LCD
Audio output	Beeper
Telemetry range	2000 ft (610 m)
Operating temperature range -4°F to 140°F -20°C to 60°C
Accuracy	±5% absolute
Height	12.2 in. (310 mm)
Width	7.2 in. (183 mm)
Length	14.5 in. (368 mm)
Weight (w/ battery)	8.3 lb (3.8 kg)
Sleep mode	After 15 min

DigiTrak ° Eclipse ° iGPS ° Remote Display

The DigiTrak ° Eclipse ° Remote Display unit features a large format graphic display with an intuitive steering indicator. The remote unit shows the same information as displayed on the receiver, and it can obtain information with the receiver as far as 2000 ft (610 m) away from the remote unit. The information viewed on the remote display includes pitch, roll, transmitter temperature, and battery status. The remote display is powered by the same DigiTrak ° NiCad battery as the DigiTrak ° and Eclipse ° receivers.

The Eclipse ° remote unit will display a graph that shows the left/right and up/down deviation of the intended target heading. The target depth and direction can be programmed into the Eclipse ° remote unit to guide the drill operator in the correct direction. This feature is great for highway, small river, and railway crossings.

Specifications

Model number	EDD
Frequency	1.5 kHz / 12 kHz
Power source	DigiTrak ° NiCad battery pack
Battery life	8–12 hr (approx.)
Battery charger	12/28 V DC or 110/220 V AC
Controls	Pressure-sensitive touch buttons
Graphic display	LCD
Telemetry range	2000 ft (610 m)
Telemetry channels	4 channels
Operating temperature range -4°F to 140°F -20°C to 60°C
Height	7.8 in. (198 mm)
Width	9.2 in. (234 mm)
Length	11.5 in. (292 mm)
Weight (w/ battery)	6.2 lb (2.8 kg)



19625 62nd Ave. S., Suite B-103
 Kent, Washington 98032 USA
 800 288 3610 / 425 251 0559 • Fax 253 395 2800
 E-mail dci@digital-control.com • www.digitrak.com