

DigiTRAK

# FALCON F5®

## Directional Drilling Locating System



- Falcon frequency optimizer analyzes and overcomes active interference at different jobsites
- One Falcon F5 wideband transmitter supports multiple frequencies from 4.5 kHz to 45 kHz
- Infrared pairing of receiver and transmitter
- 0.1% precision pitch for completing critical grade bores
- Max mode noise filtering boosts fringe data and stabilizes depth readings
- Increased power in a 15 in. transmitter for industry-best 100 ft. depth and 125 ft. data range
- Supports DataLog, Log-While-Drilling, and Target Steering® features
- Shown with DigiTrak Aurora™ touchscreen display

### Introducing DigiTrak Falcon F5®

The Falcon F5 is an extension of the classic F5 locating system. DCI's revolutionary Falcon technology minimizes the effects of active interference (noise) on the jobsite with a single wideband transmitter. The Falcon F5 combines this new technology with everything a professional contractor values in DCI's flagship F5 locating platform, including superior ease of use, updated DataLog® software, and fluid pressure monitoring.

### Active Interference

Interference is one of the primary obstacles to completing HDD projects and can impair the accuracy of underground depth measurements. The ability of a locating system to perform well in interference has become a crucial factor in maintaining crew productivity and completing jobs on time.

### Not All Job Sites are Created Equal

Interference varies between jobsites. The frequency at which the transmitter operates is the single most important factor affecting the performance of a walkover locator, and therefore your ability to get the job done.

### Falcon Innovation

As a leader in the HDD industry, DCI has taken an innovative approach to tackling active interference. The Falcon F5 receiver measures jobsite noise and clearly displays several bands of the quietest transmitter frequencies to select from. Choose two of the quietest bands and complete more HDD projects at greater depths in the noisiest environments.

Band	7	11	16	20	25	29	34	38	43
Range in kHz	4.5 – 9.0	9.0 – 13.5	13.5 – 18	18 – 22.5	22.5 – 27	27 – 31.5	31.5 – 36	36 – 40.5	40.5 – 45

### How Does DigiTrak Falcon F5 Work?

Using the F5 receiver's familiar menus and navigation, the Falcon frequency optimizer scans for noise between 4.5 kHz and 45 kHz. Upon completing the scan, the receiver displays a simple chart that depicts the noise levels across several bands. Select the two quietest bands and pair with the Falcon wideband transmitter. In areas with varied interference, switch between bands to stabilize data readings and complete the bore. For extreme interference, engage Max Mode for maximum performance.



Falcon Frequency Optimizer



DIGITAL CONTROL INCORPORATED

dci@digital-control.com ■ www.DigiTrak.com ■ 425.251.0559, 800.288.3610

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## Ease of Use

Falcon F5 combines Falcon technology with the features you have come to rely on from DCI's flagship F5 locating system, including a bright color screen, simple toggle-click menu navigation, fluid pressure data, and Roll Offset. Advanced features include *Target Steering*<sup>®</sup>, DataLog, and Bluetooth<sup>®</sup> communication. DCI's patented *Ball-in-the-Box*<sup>™</sup> visualization of the transmitter still provides real-time status of the bore and keeps your job on track. All backed by world-class customer support.

## Receiver Specifications

Product ID .....	FF5
Model number .....	FAR5
Receiving frequencies .....	4.5–45.0 kHz
Telemetry channels <sup>1</sup> .....	4
Telemetry range <sup>2</sup> .....	defined by remote display
Power source .....	Lithium-ion battery pack
Battery life .....	8–12 hrs
Functions .....	Menu-driven
Controls .....	Trigger and toggle switches
Graphic display .....	Full-color LCD
Audio output .....	Beeper
Operating temperature .....	-4 to 140° F
Accuracy .....	±5%
Voltage .....	14.4 VDC nominal
Current .....	390 mA max
Dimensions .....	11 x 5.5 x 15 in.
Weight (with battery) .....	8.5 lb

## Aurora Touchscreen Display Specifications

Product ID/Model number .....	AF10
Power source - cabled .....	10–28 VDC
Current .....	2.1 A maximum
Controls .....	10.4 in. touchscreen
Graphic display .....	LCD
Audio output .....	Speaker
Telemetry range <sup>2</sup> .....	1800 ft.
Telemetry channels .....	4
Operating temperature .....	-4 to 140° F
Dimensions <sup>4</sup> .....	11.5 x 9.3 x 2.3 in.
Weight .....	6.4 lb

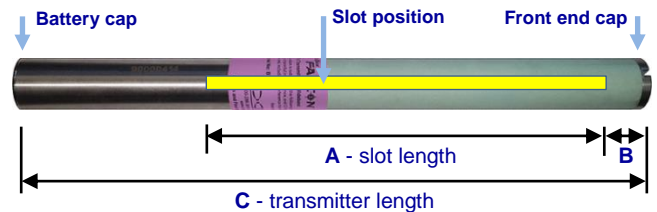
## Transmitter Specifications

Product ID .....	FT5p
Model number .....	BTP
Transmitting frequencies .....	4.5–45.0 kHz
Pitch resolution .....	±0.1% at level
Data range <sup>3</sup> .....	125 ft.
Depth range <sup>3</sup> .....	100 ft.
Battery life .....	up to 20/70 hrs alkaline/SuperCell
Voltage .....	1.2–4.2 VDC nominal
Current .....	1.75 A max
Weight (without batteries) .....	1.7 lb
Length x diameter .....	15 x 1.25 in.

<sup>1</sup> Local telemetry frequencies and power levels available at [www.DigiTrak.com](http://www.DigiTrak.com).  
<sup>2</sup> Telemetry range can be increased with an optional external receiving antenna.  
<sup>3</sup> Range figures are based on SAE Standard J2520. Actual ranges and battery life will vary based on environment, transmitter housing, and frequency.  
<sup>4</sup> Dimensions do not include external mounting hardware.

## Transmitter Drill Head Requirements

The slots in the drill head must meet minimum length and width requirements and be correctly positioned. DCI's transmitters require three slots equally spaced around the circumference of the drill head for optimal signal emission and maximum battery life. Measure slot lengths on the *inside* of the drill head; slots must be at least 1/16 in. wide. DCI transmitters fit standard housings but may require a battery cap adapter in some cases.



	A Minimum	B Maximum	C
Falcon Dual Wideband	9.0 in.*	1.0 in.*	15 in.

\* Ideal measurement. The standard DCI slot length of 8.5 in (A) and distance of 2 in. (B) remain acceptable.

DCI: THE BUSINESS OF HDD LOCATING