DIGITRAK

FALCON F5®

Directional Drilling Guidance System

- Wideband technology evaluates hundreds of frequencies for the best possible performance around active interference
- Ultra-low frequency options for battling passive interference on the jobsite
- Scan for interference, select optimum frequencies, and pair transmitter at the jobsite
- Switch between paired bands mid-bore
- Full Scale Sensitive Pitch provides 0.1% resolution through ±99.9% slope for precision grade work
- Max Mode filters noise to boost weak data signals and stabilize depth readings
- Standard warranty for 19- and 15-inch transmitters is 3 years/500 hours

Falcon F5 Is Now *Passive Aggressive*

The ability to choose the right transmitter frequency is more important than power in overcoming the effect of active interference. In October of 2015, DCI introduced Falcon technology, a significant new approach to overcoming active interference on HDD jobsites. DCI now introduces a new approach to addressing the problem of passive interference: sub-kilohertz frequencies. Falcon F5 with Sub-k Rebar capability allows a locating specialist to scan the jobsite and select the best frequency in the ultra-low frequency range of 0.33–0.75 kHz to combat passive interference.

Falcon Innovation Continues

Falcon is the HDD industry's only walkover guidance system able to specifically address both active and passive interference. Transmitter frequencies below 1 kHz are proven most effective for jobsites where passive interference is a problem. In addition, the new Falcon F5 receiver supports Full Scale Sensitive Pitch (FSSP) for 0.1% resolution through ±99.9% slope for precision grade work.

The Falcon F5 receiver offers the industry's first fully integrated GPS capability using the DigiTrak iGPS module. Snap on the iGPS module and it automatically powers on to receive and record satellite GPS data.

Use the free LWD Mobile app to view the progress of the bore and overlay the iGPS locate points on your smart device.

The Falcon F5 Wideband Transmitter

A Falcon F5 transmitter provides versatility in all types of active interference at frequencies of 4.5–45 kHz. The Falcon F5 wideband design vastly outperforms single-frequency transmitters of past generations. It also comes standard with fluid pressure measurement. No other guidance system allows an operator to scan for active interference and then pair optimized frequencies to a transmitter at every jobsite. This provides substantial cost savings and increases pilot bore productivity.

The Falcon F5 Sub-k Rebar Transmitter

The newest entrant into the Falcon F5 wideband transmitter lineup is the Sub-k Rebar transmitter. It uses frequencies below 1 kHz and provides frequency selection options from 0.33–0.75 kHz. This frequency range is ideal for addressing project scenarios that exhibit passive interference. Whether sidewalk, roadway, or runway, the Sub-k outperforms other options above 1 kHz. These transmitters include fluid pressure measurement as a standard feature.

Wideband | Sub-k Rebar

Falcon Frequency Optimizer

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DigiTrak FALCON F5® Guidance System

	DigiTrak Sub-kHz			The other guys	DigiTrak Wideband								
Band Number	0.3	0.5	0.7		7	11	16	20	25	29	34	38	43
Range in kHz	.33 – .40	.40 – .58	.58 – .75	1.5 – 4.0	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

Ease of Use

Falcon F5 raises the bar on walkover locating system capability and ease of use. Our customers have always relied on the Falcon F5's color, icon-driven screen for easy menu navigation. *Ball-in-the-Box* has never been more powerful and still provides a real-time status of the bore in progress. Minimize downtime caused by alternative products that claim to get the job done but often fall short. Keep your project on DigiTrak and maximize your productivity.

3 Year/500 Hour Warranty

Register your new Falcon 19- or 15-inch transmitter within 90 days for an enhanced warranty of 3 years or 500 hours, whichever occurs first. Ask your dealer about an extended warranty option that provides 5 year/750 hour coverage.

Transmitter Specifications

See the separate Falcon F5 Transmitter Specification Sheet for details on the six different 19-, 15-, and 8-inch wideband options for active interference and Sub-k Rebar options for combating passive interference. Falcon F5 also supports our popular DucTrak transmitters.

Receiver Specifications

Product ID	FF5
Model number	FAR5
Receiving frequencies	0.33–45.0 kHz
Telemetry channels[1]	4
Telemetry range[2]	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
Accuracy	±5%
Voltage, current	14.4 VDC nominal, 390 mA max
Operating temperature	-20–60° C
Dimensions	27.94 x 13.97 x 38.1 cm
Weight (with battery)	3.9 kg

Aurora Touchscreen Display Specifications

Product ID and model number	AF8, AF10
Power source - cabled	10–28 VDC
Current	1.75, 2.1 A maximum
Controls	21.3, 26.4 cm touchscreen
Graphic display	LCD
Audio output	Speaker
Telemetry channels[1]	4
Telemetry range[2]	500 m
Operating temperature	-20–60° C
Dimensions[3]	24.9 x 16.8 x 8.1, 29.2 x 23.7 x 5.8 cm
Weight	1.9, 2.9 kg

[1] Local telemetry frequencies and power levels available at www.DigiTrak.com.

[2] Telemetry range can be increased with an optional external receiving antenna.

[3] Dimensions do not include external mounting hardware.