DigiTrak Falcon® transmitters

The Falcon family of transmitters come in wideband, single-band, and Sub-K® rebar with a variety of features, power modes, and depth/data ranges. The battery and power mode you choose for your transmitter will affect the depth and data range available for your job.

Find your Falcon transmitter product ID

The product ID of your transmitter (Tx) is on the etching. Use the product ID to look up your transmitter's available power modes, battery life, depth, and data ranges in the charts in this quick start guide.

1. Etching
2. Colored label
3. IR Port

Choose the best battery for the job

Use only real DCI SuperCell™ and LiR batteries for High power mode and 19- and 24-inch Standard power. You can use 2 C-cell alkaline batteries for 15-inch Low and Standard (Std) power, but the SuperCell is best for extreme conditions and longer battery life. 8-inch transmitters only use Li CR123 and 6-inch transmitters only use Li AA or Alkaline AA. Always install a fully charged battery.

Rechargeable Falcon Transmitter Adapter (FTA) for Lithium Ion batteries

The Falcon Transmitter Adapter (FTA) requires a single 21700 Lithium Rechargeable (LiR) battery with built-in protection and is specifically designed for and supplied with every Falcon 15/19/24-inch transmitters with a blue tube.

Recommended Manufacturer	Part Number
Klarus	21GT-50
Fenix	ARB-L21-5000
Acebeam	IMR217000NP-510A

Only use 21700 batteries of diameter 21-22 mm and length 75.5 mm ± 1 mm. Other batteries may not fit the FTA or survive the rigors of HDD.

For V2 transmitters, choose power mode for the job

For V2 Txs, you can choose:

- High power mode for a strong signal with greater depth and data range
- Standard power mode for best balance of battery life and depth
- Low power mode for extended battery life. For Falcon+ locators, Low power also gives you a faster pitch and roll update rate.

Product ID	Power Mode	DCI SuperCell	LiR w/FTA	Alkaline	Li CR123	Depth	Data Range[4]
24-in FT5XLp V2	High	14 hrs	8 hrs	-	-	180 ft/55 m	220 ft/67 m
	Std	40 hrs	18 hrs	-	-	160 ft/49 m	185 ft/56 m
	Low[1]	120 hrs	44 hrs	32 hrs	-	120 ft/37 m	140 ft/43 m
19-in FT5Lp V2 FT2L+ V2[2]	High	14 hrs	8 hrs	-	-	160 ft/49 m	200 ft/61 m
	Std	40 hrs	18 hrs	-	-	125 ft/38 m	150 ft/46 m
	Low[1]	120 hrs	44 hrs	32 hrs	-	100 ft/30 m	125 ft/38 m
15-in FT5p V2 FT2 V2 FT1 V2[3]	High	14 hrs	8 hrs	-	-	125 ft/38 m	160 ft/49 m
	Std	80 hrs	30 hrs	20 hrs	-	100 ft/30 m	125 ft/38 m
	Low[1]	140 hrs	60 hrs	36 hrs	-	65 ft/20 m	80 ft/24 m
8-in FT2s V2 FT1s V2[3]	High	-	-	-	12 hrs	50 ft/15 m	50 ft/15 m
	Std	-	-	-	16 hrs	40 ft/12 m	40 ft/12 m
	Low[1]	-	-	-	18 hrs	25 ft/8 m	25 ft/8 m

V2 transmitters battery, depth, and data range

1 Faster updates for low power with Falcon+ locators and F1 locators with QSP
2 FT2L+ V2 is only compatible with Falcon+ locators
3 FT1 and FT1s V2's have low and standard power only
4 Data Range is based on Max Mode™

The battery types listed are the only types recommended for that product ID and size. DCI does not recommend using other battery types. Lithium Rechargeable (LiR) battery life is based on 21700 battery with 5000 mAh rating. with a max 4.2 volts. Battery life while asleep is 400 hours for SuperCell and 200 hours for alkaline. Sleep mode starts 15 minutes after last roll change.

Range is based on SAE Standard J2520 in AGR mode and Max Mode. Actual range and battery life will vary based on interference, transmitter housings, and frequencies

Falcon F5® FTR Sub-K rebar transmitters have two power modes: Std power for high frequency depth signal (Up band) and low power for Sub-K depth signal (Down band). 6-in are not V2 multi-power and will supply standard power and range only as noted.

	Power Mode	DCI SuperCell	LiR w/FTA	Li123 or Li AA	Alkaline	Depth	Data Range1
19-in Sub-K FTR5Lp	Std (up) Sub-K (down)	40 hrs 40 hrs	18 hrs 18 hrs	- -	- -	115 ft/35 m 90 ft/27 m	140 ft/43 m 115 ft/35 m
15-in Sub-K FTR5p	Std (up) Sub-K (down)	80 hrs 80 hrs	30 hrs 30 hrs	- -	20 hrs 20 hrs	90 ft/27 m 60 ft/18 m	115 ft/35 m 80 ft/24 m
8-in Sub-K FTR5s	Std (up) Sub-K (down)	- -	- -	16 hrs 16 hrs	- -	25 ft/8 m 20 ft/6 m	25 ft/8 m 20 ft/6 m
8-in FT1s/FT2s	Low (green tube)	-	-	18 hrs	-	25 ft/8 m	30 ft/9 m
6-in FT5XS, FT2XS, FT1XS	Std	-	-	36 hrs	20 hrs	20 ft/6 m	25 ft/8 m

Non-V2, 6-inch, and Sub-K rebar transmitters battery, depth, and data range

1 Data Range is based on Max Mode

The battery types listed are the only types recommended for that product ID and size. DCI does not recommend using other battery types. Lithium Rechargeable (LiR) battery life is based on 21700 battery with 5000 mAh rating. with a max 4.2 volts. Battery life while asleep is 400 hours for SuperCell and 200 hours for alkaline. Sleep mode starts 15 minutes after last roll change.

Range is based on SAE Standard J2520 in AGR mode and Max Mode. Actual range and battery life will vary based on interference, transmitter housings, and frequencies.

Select Power Mode and pair the V2 Falcon transmitter

On all Falcon locators you can:

- Change the power mode of a saved band.
- Pair Up and Down bands independently with different power modes.

On a Falcon+ locator you can select two new bands and set the same power mode for each band.

Pair a Falcon+ locator with Quick Scan Pair (QSP) and Scan Pick Pair

If you are using the Quick Scan Pair (QSP) method, the power mode is preset. If you are using the Scan Pick Pair method, you can select the power mode in the step before pairing the Tx. For more instructions, search "power mode" in the **DCI DigiGuide™ App**.

High Power

Standard Power

Low Power

Falcon Transmitter Power Modes

Pair a legacy Falcon locator (Tilt method)

To select the power mode with a locator without QSP or Power Mode selection settings, hold the Tx in the orientation indicated by the chart below and on the IR port sticker.

The Falcon+ locators set the power mode during pairing and overrides the Tilt method.

8-inch V2 transmitters do not have the sticker, but can still use the tilt method.

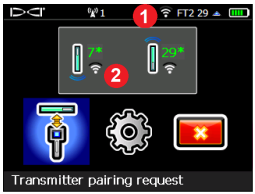
Power Mode	IR Port Sticker	Orientation	Directions
High			Hold the transmitter facing up with the battery compartment down. Pairs as standard power for F1 transmitter.
Standard			Hold the transmitter horizontally. F1 transmitters pair as Low power for Regions 1, 3, and 4.
Low			Hold the transmitter facing down with the battery compartment up.

If the sticker is missing, the IR port is aligned with the clocking slot and the colored label on the 6-in and V2 8-in Txs points at it. See the **DCI DigiGuide App** for more instructions.

Calibration of depth is required after pairing any new band or power level. See the **DCI DigiGuide App** for instructions.

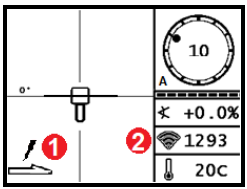
View the Tx power mode

On Falcon+ and F1 locators with Quick Scan Pair or the F2® Top Toggle locator, you can view the power mode on the Tx Pairing Request screen and the Locate Mode screen. Use the Transmitter Information Pairing screen to view power setting, battery voltage and other important Tx info. Power setting information is not available on other locators. See the **DCI DigiGuide App** for more details.



1. Power mode for current band
2. Power mode for bands to be paired

Tx Pairing Request F5+



1. Current Draw warning *
2. Power mode

* The Current Draw (similar on the F5/F2 and F1) warning indicates the Tx is drawing too much current from a weak battery, an alkaline battery used in High power mode, or that the Tx is in an incompatible drill housing.

Locate mode for Falcon F2+/F1 with QSP option (and F2 top toggle)

For detailed information and safety information, scan the QR code to install the **DCI DigiGuide App** from your smart device's App store. If you have questions, contact your regional DCI office or Customer Service at 1.425.251.0559 or 1.800.288.3610 US/CA.

Watch our DigiTrak training videos at www.YouTube.com/DCIKent

DIGITAL CONTROL

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