

## EXAMPLES

### START BLOCK 3 x 20m

- Place the FxChip on the front of the body at the waist.
- Place the Tx Touch Pro at the starting line.
- Place the Tx Junior Pro transmitters 80cm after the desired distance. In this case, 20.8m, 40.8m and 60.8m.
- Set 2 Tx Junior Pro transmitters in LAP mode (20.8 and 40.8m) to measure laps.
- Set the final Tx Junior Pro in FINISH mode (60.8m) to send data by radio.
- Athlete should run in the center of the lane.

### FLY-IN START 30m

- Place the FxChip on the front of the body at the waist.
- Set the 1st Tx Junior Pro in START mode and place it minimum 2m after the FLY-IN START.
- Set the 2nd Tx Junior Pro in FINISH mode.
- Additional Tx Junior Pro transmitters can be used to time laps. Set them in LAP mode.

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## TECHNICAL SPECIFICATIONS

### Tx Touch Pro

Battery type	CR2032
Battery life	15'000 starts
Operating temperature	-20°C to +50°C
Accuracy	1/100"
Emitting field	1.4m
Water resistance	IPX7

### Tx Junior Pro

Battery type	2xLR6 or 2xAA Alkaline
Battery life	300h
Operating temperature	-20°C to +50°C
Accuracy	2/100"
Emitting field	80cm radius in vertical position
Water resistance	IP67

### FxChip

SAFE time (Minimum Split Time)	0.7s (10m/s = distance minimum between transmitters is 7m)
Battery type	CR2032
Battery life	2000h / 5 years stand-by
Operating temperature	-20°C to +50°C
Accuracy	2/100"
Water resistance	IPX7

### Relay Coach

Battery type	3.7V 3500mAh LiPo
Battery life	80h
Operating temperature	-20°C to +50°C
Radio Transmission Range	
FxChip to Relay:	10m
Relay to Procoach:	200m
Memory capacity	6000 laps
Water resistance	IP67

### Procoach

Battery type	3.7V 830mAh LiPo
Battery life	12h
Operating temperature	-20°C to +50°C
Memory capacity	64 files
Water resistance	IPX7

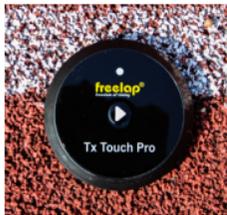
# freelap®



## track and field

**EN - PRO TIMING SYSTEM**

## Tx Touch Pro



The Tx Touch Pro is a touch-and-release module for three-point and block starts.

- Press the button in the center of the device.
- The LED will glow green for about 2 seconds.
- The LED will begin to blink and indicates the device is ready (athlete must wait 3 seconds for the complete procedure)
- Release the button to begin the sprint. The device will emit a magnetic signal that will reset and start the FxChip.

**Note:** The LED will glow amber when the battery is low and needs replacement. The user-replaceable battery can be accessed by removing the screws on the back plate.

## Tx Junior Pro



Tx Junior Pro triggers the FxChip when the athlete passes. It can be used with Tx Touch Pro for accelerations or another Tx Junior Pro transmitters for fly-in sprints. The Tx Junior Pro can emit 3 magnetic modes.

- START - reset the time (start a time block)
  - LAP - record a lap (intermediate)
  - FINISH - record a lap and send the time block by radio
- Switch ON by pressing 2s on POWER button
  - Set the desired mode (1 pressure on the button will change the mode)

**Note:** The power LED will flash amber when the batteries are low. The device will automatically power down in twelve hours if left ON.

## FxChip



The FxChip does not have any buttons. The device automatically turns ON when moved and automatically turns OFF when not in use (10min without any movements). The ID number is unique.

- When the device turns ON, a red LED will blink 4 times.
  - When the device turns OFF, a red LED will blink once long.
  - When the device detects a magnetic signal, a red LED will blink once short.
  - The device can detect 3 modes (see Tx Junior Pro)
  - The device can record up to 10 laps (intermediates) and send them by radio after the FINISH mode.
- The FxChip must be wear in front of the body (waist) by 2 options:
    - CLIP on short
    - BELT with velcro



## Relay Coach



The Relay Coach collects the data from the FxChips as they pass a Tx Junior Pro transmitter set to FINISH mode. The data is then relayed to the Procoach handheld device, or an attached laptop, or a LED display.

- The Relay Coach has a 1/4 inch threaded mount on the back that attaches the the tripod. The mount of the tripod should be angled at 90 degrees as shown in the figure above. The Relay Coach should be positioned within 10 meters of the Tx Junior Pro transmitter(s) that are set to the FINISH mode. When timing at a track, the Relay Coach would typically be placed on the turf near lane one.

## Procoach



The Procoach is an handheld device that displays in LIVE lap time or time block per ID. The device can record up to 64 files and download onto a PC (Windows and Mac compatible).

- Press the POWER button to switch ON the device.
  - Select COACH to start the training session.
  - The last time block is displayed on the TOP.
  - Press OK, select a desired time block and press again on OK button to see the detailed time block (intermediates).
  - Press the arrows buttons to scroll between time blocks.
  - Press OK to QUIT detailed time block window.
  - Press OK, select an ID, press again on OK for 2s and choose "Filter by ID" to see the all data from the selected ID.
  - At the end of the training session, press OK for 2s and choose if you want to save the session or not.
- Select FILES to review your training session.
  - Press the arrows buttons to select the training session.
  - Press the arrows buttons to scroll between time blocks and press OK to open the detailed time block (OK to QUIT).
  - Select an ID, press OK for 2s and choose "Filter by ID" to see the all data from the selected ID (2s on OK to quit).
  - Press OK for 2s to QUIT or go back to FILES.
  - In FILES mode, press OK for 2s on the selected FILE. Choose QUIT to go back in the MAIN menu, DELETE FILE to delete the current FILE or DELETE ALL to delete ALL FILES.
- Select ID LIST to receive only your own FxChip IDs. You can filtering ID lists and activate or deactivate them.