

**PERFORMANCE, RELIABILITY AND SIMPLICITY  
IN THE PALM OF YOUR HAND**



**The smallest sports timing console on the market**

High-end electronic components and sophisticated firmware are housed in a simple and functional case, ensuring professional performance in a low-cost product.

The TBox main purpose is to capture time events triggered by manual switches, photocells or other devices. Those events are then transmitted to your preferred timing applications (\*1) via serial port or Bluetooth (\*2). For some applications, the TBox can also act as a Bluetooth interface for external displays or printers.

(\*1) Only for applications compatible with FDS, TAG Heuer, Alge or Seiko protocols.

(\*2) Only with FDS applications.

## Available versions

	TBox-10 Std	TBox-21 Std-GPS	TBox-40 Radio-GPS	TBox-41 Radio-GPS
Wired Inputs	4	4	2	2
Radio Inputs			4	4
Wireless			✓	✓
Bluetooth communication	✓	✓	✓	✓
RS232 output (display / printer)	✓	✓	✓	✓
Synch In/Out	✓	✓	✓	✓
Mini-USB	✓	✓	✓	✓
GPS with integrated and external antenna		✓	✓	✓
SD card – data backup	2Gb	2Gb	2Gb	4Gb
Output protocol (time frame only) (FDS, ALGE, Seiko, Tag Heuer)	✓	✓	✓	✓

## Applications iOS



### TBox Setup

Configure your TBox in a few seconds via Bluetooth using our dedicated iOS App.

Don't use iOS? No problem, simply download our PC App to configure your TBox device via USB connectivity.



### TBox Chrono

Simple to use Start-Finish timing App for iPhone and iPad.

- Results ranking
- Speed Measurement
- Bib auto incrementation



### Designed to work with tablets and Smartphones

The TBox design and technology follows the inspiration of how we all live our life today with Bluetooth technology and user Apps. It opens a wide range of new possibilities, using professional timing equipment together with tablets and Smartphone applications.

Currently we provide customers with couple of well design iOS apps, but we also give the possibility for developers to create their own customized App using our TBox Bluetooth iOS library.



### Peace of Mind timing

With its internal 2Gb/ 4Gb memory loss of timing data is significantly reduced and you can keep a track of your previous race data.



### Embedded GPS

The TBox (\*) has the added benefit of an embedded GPS receiver with internal antenna. This guarantees high precision timing, and independent synchronization.

It also offers an external GPS antenna connectivity to help in areas of reduced signal reception.

(\*) only TBox models 21, 40, 41



### Wireless photocells

The **TBox-Radio** model can receive radio impulses from our WIRC Photocells or WINP Transmitter.

To improve robustness and increase reliability, a two-way protocol is used in the communication.



### Expensive sports timing devices are history

TBox is the most cost effective solution to fit many timing requirements (even if only used as a backup timing solution!)

Not only is TBox significantly more economically priced than most other products, it is designed to integrate with many ancillary devices meaning no need to upgrade your existing photocells, displays or software. TBox also allows you to choose ancillary devices to suit your budget.



### Compatibility

TBox is compatible with most of the timing equipment and software. Its photocells inputs are in open-collector which is the most standard technology.

Thanks to its USB and RS232 protocols, you can use most of the timing software available on the market.



### Homologation

FIS : FDS.001T.20

FEI : 2019001-1B/C

## Technical Specifications

Frequencies & Power (*):	
Europe	869.4 - 869.65 MHz    100 mW
India	865 - 867 MHz    100 mW
North America	920 - 924 MHz    100 mW
Japan (TBox-41 only)	922 - 927 MHz    20 mW
Precision	1/10'000 sec
Time Drift (no GPS)	1ppm @ 20°C; max 2.5ppm -20°C to 60°C
Operating temperature	-20°C to 60°C Battery charge possible only between 0°C and 45°C
External power	USB compatible (5V +/- 10%) up to 1.5A
Autonomy :	
GPS and Radio disable	140 hours
Radio enable and GPS disable	70 hours
Radio and GPS enable	45 hours
Bluetooth model :	
TBox-10 to TBox-40	BLE 4.1
TBox-41	BLE-5
Dimension	124 x 86 x 31mm
Weight	190 g

(\*) For TBox-Radio only

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