



**WINNING TIME**

Sports Technologies & Services



**WTACTIVE**  
always on time



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## THE COMPANY

**Winning Time**, the world leader in chip-timing since 1995, now offers the highest level of both **Passive and Active chip technology**. While taking on over 2,000 events per year in 20 countries in Running, Triathlon, Cycling, Skiing, Cross Country and more, we continue to advance our technology and expand into new markets. Our company is the proud **timer of the world's largest events**, including the Lilac Bloomsday Run and the Cape Argus Cycle Tour, each with over 45,000 timed participants. Continually chosen as official partner of Seiko since 1999, **Winning Time** has timed over 100 IAAF World Championships in Race Walking, Marathons, Cross Country and Road Races.

**Winning Time** distinguishes itself from its competitors by offering **the most reliable, accurate and versatile products**, as well as top notch customer support. Our timing partners benefit from an **extensive initial**

**training** on both the equipment and the scoring software of choice, a **comprehensive rental program of chips and equipment**, and much more.

We carefully choose our partners and ensure that each one gets up and running quickly and successfully. Race directors can rest assured that local **Winning Time** partners will be armed with the best equipment and knowledge available in the timing industry.

The latest technology released by the company, the **WTActive system**, was developed together with a team of experts at the University of Electronic Engineering in Milan, Italy. The system represents **the most advanced timing product currently available on the international market**. The revolutionary system is accurate to one hundredth of a second, and can easily be attached to the athletes' bib, ankle or bike.



## FEATURES AND BENEFITS

The WTActive is the most accurate, cutting-edge, easy to use chip-timing system available on the market. Coupled with top notch customer support, Winning Time offers timers an unmatched product.

- ideal for timers looking for top level accuracy or extreme simplicity
- read height of 180 cm / 6 ft allows for various chip applications (ankle, bib, bike frame)
- accuracy of 0.01 seconds at high densities and speeds over 120 Km/h / 75 mph makes system ideal for all sports at any level
- replaceable battery in chip makes owning chips affordable
- single, thin antenna wire allows for quick installation on road surface and under track, snow, dirt, sand or carpet
- Rubber, anti-slip antenna mat is ideal for rainy days
- compact and lightweight equipment for easy and less expensive handling, transport and shipping
- less equipment and simple functionality allow for quick set-up and fewer staff
- antenna width coverage up to 12 mt / 40 ft allows for timing a large start/finish line with only one system
- durable, waterproof equipment and chips allow for timing in any weather condition
- rechargeable battery in box lasting up to 8 hours allows for timing at remote locations
- direct connection to the boxes via Ethernet connection allows for real time results
- built-in computer with memory and full display panel allows for timing without a laptop

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**TRANSPONDER**

The WTActive transponder is an ultra-light radio transmitter fitted with a non-rechargeable battery which can be replaced. The device is comprised of a micro antenna and a powerful microchip. Once activated by the electromagnetic field generated by the antenna, the chip transmits an alpha numeric code to two receiver modules. The chip is housed inside a rigid, waterproof plastic case which can be fastened to the athlete's ankle by means of a Velcro strap or mounted on a bicycle using a specially-designed attachment or applied to the back of a bib using a small sealable envelope.



**RECEIVER MODULES**

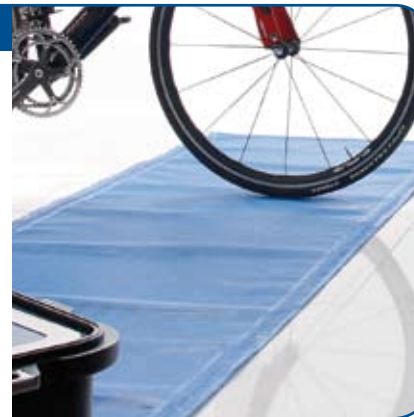
The system is comprised of two receiver modules that are connected to the WTActive box by serial cables. The receiver modules receive the signal transmitted by the transponders and send it to the receiver unit integrated into the WTActive main control board. For optimal installation, the two receiver modules should be installed at the two opposite sides of the activating antenna loop or mat.



**CONTROLLER BOX**

The WTActive box carries out the following main functions:

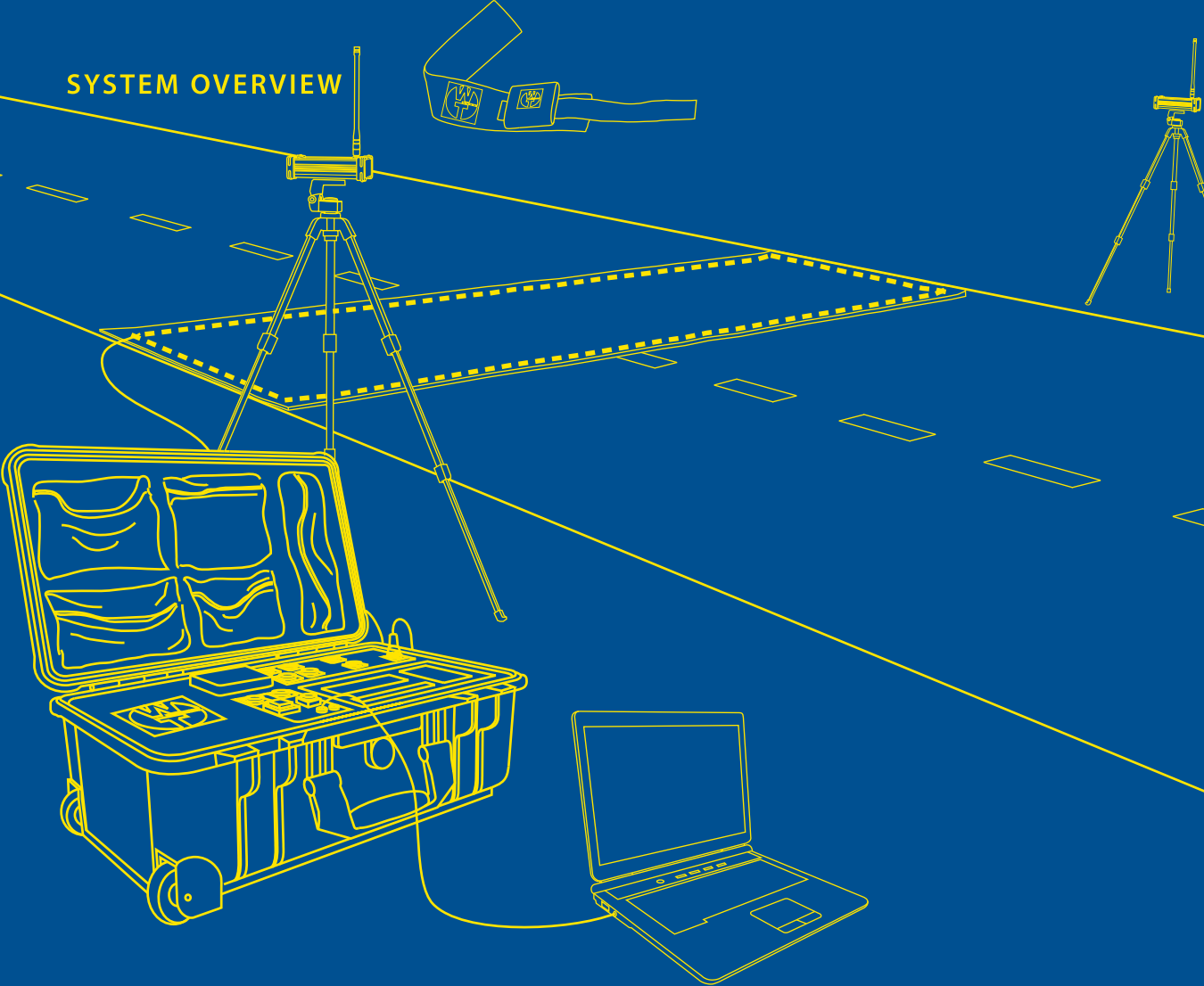
- Activates and controls the antenna through the activating unit integrated into the main control board.
- Detects the codes transmitted by the transponder and received through the 2 receiver modules.
- Associates the relative time to each transponder code.
- Records the transponder code and its time in long term memory and transmits them to a PC through an Ethernet connection.



**ANTENNAS**

The activating antenna generates an electromagnetic field which activates the chip as soon as it enters into the field. The antenna loop consists of a standard electrical cable and connects to the Activator connector on board the WTActive box. The antenna can cover up to 12 mt / 40 ft in width. Antenna options include a wire loop and a rubber, non-slip mat.

## SYSTEM OVERVIEW



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The WTActive system is based on a dual frequency concept: the transponder is activated by a low frequency electromagnetic field and then transmits its code at a different, higher frequency. The use of a battery-powered / active transponder, in combination with the dual frequency principle, allows for a high read height, a low collision rate between transponders, and high accuracy even at top speeds and densities.

- 1 The WTActive box control board generates a sharp edge and stable electromagnetic field around the activating antenna.
- 2 When a transponder crosses into the electromagnetic field, it is activated by a powerful sensor that responds immediately to the activating field.
- 3 Once activated, the transponder transmits its code.
- 4 The code transmitted by the transponder is detected by the two receiver modules, which send the data to the control board of the WTActive box.
- 5 The data is then processed and stored in the WTActive control board.
- 6 The processed data is sent to the operator's laptop computer via the Ethernet link.



## TECHNICAL SPECIFICATIONS

### Transponder

Read Height	180–200 cm / 5–6 ft
Maximum Speed	120 Km/h / 75 mph
Battery Type	Lithium CR2032, replaceable
Battery Life	1 year min. (or 1 million readings)
Operating Temperature Range	-20°C to 60°C / -4°F to 140°F
Dimensions	42 x 38 x 11 mm
Weight	< 15 gr / < 0.5 oz
Case	Waterproof, replaceable

### Controller Box

Time Resolution	0.001 sec
Time Accuracy	0.01 sec
Operating Temperature Range	-20°C to 60°C / -4°F to 140°F
Dimensions	56 x 35 x 23 cm / 22 x 14 x 9 in
Weight	13 Kg / 29 lbs (without battery)
Display	LCD

Case	Small, robust, easy to transport
Battery	Rechargeable, removable lead battery. 8 hour min. operating time
Power	220 / 110 Vac

### Communication Outputs

USB Port	The port allows for data file download in .csv format
Ethernet TCP / IP	The system can be controlled and race data downloaded via an http with any market available browser and socket communication interface

### Interfaces

WTActive Software	Data can be downloaded and processed using the proprietary software
DLL (Dynamic Link Library)	The DLL can be launched from the PC and all data collected from the last request can be downloaded
Communication Protocol	The WTActive Controller Box can be connected to the PC through the socket port. The Box sends data each time a chip is read
Activating Antenna	Single conductor loop antenna connected to the activating unit
Coverage	Max width of 12 mt / 40 ft
Antenna Options	Wire loop or rubber, non-slip mat



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