



CHRONOSPLIT HL 640

PERSONAL WIRELESS TIMING SYSTEM

PUT PRECISION AND INNOVATION
IN YOUR POCKET

With the new CHRONOSPLIT, now elite athletes and those who aspire to higher levels will benefit from TAG Heuer's legendary experience and professionalism that guarantees the dependable and precise measurement of performance.

- ▷ The CHRONOSPLIT is a new concept timer. It allows automated wireless timing from remote sensors with memorization of up to 1000 times at 1/1000th sec. precision in up to 99 different timing sessions or runs.
- ▷ The CHRONOSPLIT automatically receives wireless radio timing signals from our new radio transmitters that are placed at the Start, Intermediate and Finish locations. These transmitters are driven by timing impulses generated by start gates, photocells or any other timing sensor.
- ▷ The Start, an unlimited number of intermediate or split times, and the Finish are all differentiated and sequentially recorded as separate sessions on the CHRONOSPLIT. These times can be recalled for immediate review on the integrated LCD screen or downloaded via a wireless/USB interface to a PC for further analysis.
- ▷ The internal electronics module of the CHRONOSPLIT is a masterwork of electronics miniaturization. Using enhanced digital transmission protocols and algorithms the result is a remarkable degree of dependability and RF sensing capability for use in the most demanding of sports conditions.
- ▷ Each CHRONOSPLIT is carried by the athlete and can be worn around the neck, on a belt, in a pocket or even affixed on or in a vehicle. Regardless of how it is carried or installed it is always effective. Low operating consumption translates into months of use without battery replacement.
- ▷ A major system advantage is the dependability of the timing radio transmissions, particularly in difficult or undulating terrain or where great distances pose insurmountable problems for typical radio timing systems. Using a CHRONOSPLIT system is remarkably simple for all involved.
- ▷ The CHRONOSPLIT is also a fully functional manual stopwatch that can be used without the radio transmitters. It has all of the typical timing functions you would expect to find in a high-quality sports stopwatch.

TIMING MODES

- ▷ **AUTO SPLIT:** Automatic time measurement by wireless radio impulses. Start from zero, intermediate times and finish with sequential numbering. Each start creates a new timing session which is memorized with date and time-of-day.
- ▷ **AUTO LAP:** Automatic wireless lap timing with up to four intermediates.



- ▷ **MAN SPLIT:** Normal manual timing in split mode with sequential session numbering and running time in display. START / SPLIT / STOP / RESTART functions or RESET to zero for a new session.
- ▷ **MAN LAP:** Normal manual timing in lap mode with sequential numbering and running time in display. START / LAP / STOP / RESTART functions or RESET to zero for a new session.
- ▷ **PC:** Automated download of memorized times from the CHRONOSPLIT to a PC via the HL 640-2 USB interface. The data transfer software is supplied.

As an option: Legacy serial port or « Bluetooth » interfaces for devices like the Pocket PC.

TECHNICAL SPECIFICATIONS

CHRONOSPLIT HL 640

- Memory for 1000 times at 1,1000th sec.. Display resolution to 1/100ths sec. Up to 99 Sessions in Memory
- Quartz Precision: +/- 5 ppm
- Overall system precision better than +/- 0,5 msec.
- Internal Battery Power AAA 1200mAh
- Battery Power Consumption in Auto Split / Auto Lap modes : 2 mA
- Battery Power consumption in Standby mode: 20 µA
- Autonomy: about 100 days at 5 hours of timing per day.
- Operating temperature range: -15°C à + 60°C
- « Low Temperature » LCD display
- Battery state indicator
- Radio Impulse Indicator
- Download data Interface Indicator
- Choice of 4 different « Teams »
- Adjustable Individual watch ID number
- Sealed ABS red case
- Dimensions: 90 x 60 x 19mm
- Weight: 87 grams

PC INTERFACE HL 640-2

- ▷ This accessory allows stored data in each CHRONOSPLIT to be sent to a PC. The PC interface connects automatically to the CHRONOSPLIT by radio signals and then to the PC via USB connection.
- ▷ TAG Heuer's timing analysis software provides a handy and effective tool for performance study of all downloaded data.
- Connection to PC's USB port (Windows 98 / NT / 2000 / XP)
- RF timing data transmission frequency: 868.992MHz
- Range: about 3 meters
- Optional HL 640-3 « Bluetooth » connection for Pocket PC

Data Transmission Software provided by TAG Heuer



TAG HEUER SA
14a, Ave. des Champs-Montants
CH-2074 Marin, Switzerland
T: 032 755 60 00 • F: 032 755 66 82
www.tagheuer-timing.com

TRANSMITTER HL 640-1

- ▷ This low power transmitter sends the timing signals to the CHRONOSPLIT as it passes each timing point. The low-power transmitter does not require any special radio licensing in most countries.
- ▷ Each Transmitter is set to be used at the timing locations of your racecourse: Start, Intermediates or Finish. This allows the CHRONOSPLIT system to work automatically and to be protected from unwanted signals triggered by other competitors in the same area.
- 1 input for timing sensor connection via « banana plugs ». Normally open working contact.
- 4 programmable channel functions: (start / intermediates / finish)
- Choice of up to 4 team codes
- Battery State Test (BATT)
- Radio Transmission Test (TEST)
- Operating Frequency: ISM band, 868,992 MHz
- Transmitter power 4 mW, Antenna 1/4 wave. Imp. 50 Ohms
- Range: Up to 50m and better than 15m at 130 km/h
- Internal Lithium Battery
- Battery autonomy of about 3 years
- Water resistant Aluminum enclosure
- Dimensions: 150 x 82 x 32mm
- Weight: 380 grams

AVAILABILITY

- As Individual Components
- Kit HL 640-4 in case:
 - 4 CHRONOSPLIT
 - 2 Transmitters with antennas
 - 1 USB Interface with cable and software
 - 1 Operating Instructions
- Kit HL 640-8 in case:
 - 8 CHRONOSPLITWatches
 - 4 Transmitters with Antennas
 - 1 USB interface with cable and software
 - 1 Operating Instructions

