



The Rallytime GPS is the third generation of the long established Rallytime series of rally timers. It is an advanced global positioning satellite synchronised rally timing device.

This version is superior to its predecessors in that all the clocks are simultaneously synchronised to the same time stream, namely the time off the satellites. This makes for far higher precision timing and a resolution of one millisecond (0.001's) for the flying finish.

It is designed to work in conjunction with many peripheral devices including infra-red light barriers for detecting jumped starts, ultrasonic beams for dusty flying finish timing, handheld push buttons, countdown lights, countdown displays, master time displays, computers and printers.

## FEATURES

- Space for up to 999 cars over 8 controls in permanent flash memory
- Time aquired and synchronised from GPS satellites
- Configurable to any timezone
- Active GPS antenna supplied as standard
- Small, rugged, handheld with a protective rubber boot
- NiMH battery pack and charger supplied as standard
- 128 X 64 pixel graphic display
- Plastic carry case supplied as standard
- DB25 interface for multiple input output devices
- 1 year guarantee (batteries not included)

# Rallytime GPS



All clocks get a master time signal from the GPS satellites before a control, then use an internal quartz timebase for up to 8 hours.

Starts cars at "start stages" to the second with countdown lights or countdown displays and will record jump starts, from the infra-red light barrier, the keypad or a pushbutton.

Times "flying finishes" to the millisecond either with a remote start/stop pushbutton, Infra-red light barrier, ultrasonic beam or by pushing the start/stop button on the unit.

Times "stop and time controls" with either a remote start/stop push button, Infra-red light barrier, ultrasonic beam or by pushing the start/stop button on the unit.

All times can be printed to a serial printer or downloaded to a computer in a spreadsheet format using the provided software.

## ACCESSORIES

2-digit countdown display 59 ... 00 seconds  
6-digit master time display HH:MM:SS  
Countdown lights, red, amber & green  
330 meter extension cables

Handheld push buttons  
Ultrasonic beams  
Infra-red barriers  
12VDC cigarette lighter charger

## ENVIRONMENTAL SPECIFICATIONS

Operating temperature range 0 to +50°C  
Service temperature range -5 to +55°C  
Storage temperature range -20 to +55°C  
Humidity < 85% non-condensing

## MECHANICAL SPECIFICATIONS

Dimensions (with the boot on) 85 x 156 x 42 mm, IP54 rating (dust and splash proof)  
Dimensions (without boot) 77 x 145 x 34 mm, IP54 rating (dust and splash proof)  
Protection UL 94 V-0 flame retardant ABS plastic with rubber boot  
Weight 340g

## GENERAL SPECIFICATIONS

Display 128 X 64 graphics display with backlight LED  
Keypad 16 Key tactile with embossed buttons  
Batteries NiMH battery pack with temperature protection  
Battery life Approx. 10 Hours, external 12V battery required for auxiliary devices such as countdown lights, beams etc.

## GPS SPECIFICATIONS

Antenna Active antenna with an MCX connector  
Antenna placement Clear to the sky  
GPS 16 channel chip updating at 4Hz

## GUARANTEE

This product is guaranteed against faulty workmanship or defective material, for a period of 1 (one) year from date of delivery by Instrotech.

Instrotech undertakes to replace without charge all defective equipment which is returned to it (transportation costs prepaid) during the period of guarantee, provided there is no evidence that the equipment has been abused or mishandled in any way.

Instrotech reserves the right to alter any specification without notice.

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