

The Basic Roamer Company

# RoamerTime



## It's a Navigator's Thing

**RoamerTime** is a high quality cost effective timing unit for road, regularity and stage rally navigators/co-drivers incorporating the following features:

- a 12/24 hour hh:mm:ss time of day clock, which is easily set to any second, rather than waiting "for the minute"
- a stopwatch with three modes – **Road, Stage and Regularity** - which can be paused, re-started (without loss of time) and zeroed
- the ability to hold the clock for a selectable time when the stopwatch is paused
- adjustable display brightness
- operation via an external 7-16v DC supply
- all information being retained, including the clock time and the running stopwatch, when the unit is powered off or the external power fails
- a quick release mounting bracket kit that allows adjustable fitting to all types of vehicles
- an optional remote control unit that allows operation of functions without touching the unit.

With **RoamerTime** being a fully self-contained unit, the clock can to be set to rally time, for example, in the signing on area. It may also be used on events such as Table Top Rallies etc. The **RoamerTime** unit uses an anodised aluminium case measuring 125mm(W) x 80mm(H) x 45mm(D).

### ***Mounting a RoamerTime Unit***

A **RoamerTime** unit can be easily fitted to the vehicle using the mounting bracket kit supplied. The bracket can be mounted on any suitable vertical, horizontal or sloping surface and the unit can be tilted to obtain the best viewing angle.

The inside distance between the arms of the bracket should be set to 135mm. When mounting the unit in the bracket, the rubber washers should be between the unit and the inside of the bracket arms.

**RoamerTime** may be removed from the bracket by simply loosening the thumbscrews and sliding the unit out of the slots – the thumbscrews do not need to be removed completely.

***IT IS VERY IMPORTANT THAT ONLY THE SUPPLIED THUMBSCREWS ARE USED TO MOUNT THE UNIT***

## Battery Power

**RoamerTime** has the option to be powered by 6x AA batteries fitted in the rear battery compartment.

1.5v alkaline or 1.2v rechargeable batteries may be used. Batteries of 1800maH or better are recommended. With a fresh set of 1800maH batteries the unit will operate for more than 15 hours with both displays visible at their minimum brightness.

If batteries are fitted and external power is also present, the external power source is used to power the unit and the batteries are not used – but the batteries will power the unit, without interruption, if there is a failure in the external power.

If the unit is running on battery power, the colon in the clock display will flash **twice** per second.

The unit quickly flashes the entire display once every second when the battery voltage is low. If the battery voltage falls further, the display will go to minimum brightness and the batteries should be changed as soon as possible. The batteries should be changed immediately if the bottom display shows "**batt**" at any time.

## External Power

A **RoamerTime** unit can also be powered from a 7v-16v externally fused (3A max) DC power supply via the supplied power cable (red wire +ve, blue wire 0v) which plugs into the socket on the right hand end panel.

If the unit is running on external power, the colon in the clock display will be displayed constantly. If the external power is applied with reverse polarity (i.e. +ve and 0v swapped) the unit will not power up – however, no electrical damage will occur.

## Displays

There are two displays on a **RoamerTime** unit:

- **Top display:** a 12/24hr clock showing hh:mm:ss
- **Bottom display:** a stopwatch with three modes – **Road**, **Stage** and **Regularity** – see [Options](#).  
In **Road** and **Regularity** modes the display is in whole seconds and shows h:mm:ss with leading zero hours and zero tens of minutes blanked.  
In **Stage** Mode all leading zeroes are blanked, the display is in tenths (i.e. mm:ss.t) up to 59:59.9, then h:mm:ss with leading zero hours and zero tens of minutes blanked.

## Operating the Unit

Turn the unit on or off using the rocker switch.

The first time the unit is switched on, the displays will be at minimum brightness and:

- the clock will start from 00:00:00 in 24 hour mode
- the stopwatch will be in **Road** Mode and set to 0.00

After initial switch on, the displays are shown according to the last display mode selected (see below) and the last brightness setting selected.

There are two multi-function buttons on the right hand side of the unit:

- the **T** button or **T** – the **black** button
- the **B** button or **B** – the **red** button.

If **T** is pressed when the unit is switched on, various options can be set for the unit – see [Options](#).

**T** has a different effect dependant on how long it is pressed:

- a short press changes the display mode, in the sequence:
  - clock and stopwatch displayed
  - clock only displayed
  - stopwatch only displayed
- a medium press (more than 2 seconds) allows the display brightness to be changed - use **B** to increase the brightness from 0 (min) to 15 (max) one step at a time, or hold down to continuously change the brightness
- a long press (more than 5 seconds) will allow the clock to be set. Initially the hh value will flash - use **B** (one press at a time or hold down) to increment hh. Press **T** to flash the mm value - use **B** (one press at a time or hold down) to increment mm. Press **T** to flash the ss value - use **B** (one press at a time or hold down) to increment ss. Press **T** again to set the clock to the displayed value. Note that the clock stops to allow accurate setting when **B** is used to change the hh, mm or ss values. The clock is set using 24 hour times

**B** also controls the stopwatch (or is used for setting the brightness and clock - see above):

In **Road** and **Stage** modes, the stopwatch acts as a conventional stopwatch allowing general purpose road timing or Special Stage timing, by allowing the stopwatch value to be frozen as the Flying Finish line is crossed:

- a short press will start the stopwatch
- the next short press will freeze the stopwatch display but the stopwatch will continue running in the background). The clock will also freeze hold for a selectable time (see [Options](#)) and then unfreeze, but pressing **T** at any time will also unfreeze the clock
- the next short press will unfreeze the stopwatch display, with the displayed value resuming at the time that the stopwatch has now reached (the clock will also unfreeze)
- a medium press will reset the stopwatch to zero (the clock will hold for the selectable time)
- a long press will reset the stopwatch to zero, then start it again, taking into account the time spent resetting the stopwatch to zero.

In **Regularity** mode, the stopwatch display can be frozen when entering a Time Control, allowing the time to be manually noted, but the stopwatch is reset to zero and starts counting in the background in order to accurately represent the time being taken until the next Time Control:

- a short press will start the stopwatch
- the next short press will freeze the stopwatch display, but the stopwatch will restart from zero in the background. The clock will also freeze for a selectable time (see **Options**) and after that time the clock and the stopwatch will unfreeze - but pressing **T** at any time will also unfreeze the clock and stopwatch
- a medium press will reset the stopwatch to zero.

## Options

The unit has a number of options that you can set to determine how some parts of the unit operate and/or how the displays are shown. The options are selected by turning the unit on with **T** pressed. The different options are selected by pressing **T**, and the value of the option is set by pressing **B** one or more times. To leave the options, wait for 6 seconds without pressing any buttons – the unit will then start normally.

The options are:

- the **stopwatch** mode – top line shows **StOP** and values on the bottom line are **Stage**, **Road** or **Regularity**
- how long the clock is held for when the stopwatch is paused – top line shows **HOLd** and values on the bottom line are 0 (i.e. not paused ), 5, 10, 15, 20, 25, 30, 45, 60, 90, 120, 150 or 180 seconds
- the **clock** mode – top line shows **CLOC** and values on the bottom line are 12 or 24 hour mode
- the current version of the software in the unit – top line shows **SOFT** and the software version 3.00.x is shown on the bottom line.

When the **stopwatch** mode is changed, the clock hold time is reset to the following values (which can then be altered if required):

- 0 seconds for **Road** mode, allowing for general purpose road timing
- 60 seconds for **Stage** mode, allowing the stopwatch and clock times to be noted while at the Stop Control
- 15 seconds for **Regularity** mode, allowing the stopwatch and clock times to be noted while at a Time Control.

## Optional Remote Unit



An optional remote unit connects to the **RoamerTime** via the socket on the left  
**There are two buttons on the remote unit:**

- The **black** button at the top provides exactly the same functions as the **T** button
- The **red** button at the bottom provides exactly the same functions as the **B** button.