

# HM DASH User Guide Supplement v1.0

## GPS LAP TIMING

From version 5 of the Dash Firmware, a whole new GPS platform has been released. Please see the last page for a feature overview.

### Introduction

The HM Dash has two primary modes of GPS Lap Timing

1. **Auto Mode:** This mode is chosen in the SETUP->LAPTIMER screen, and what it does is allow the user to simply arrive at a track and ride. The GPS Lap Timing will be automatic. The only downsides to this are that the actual start/finish line position will not be at the tracks' actual Start/Finish line (not a major concern as the point calculated will be near the tracks' start / finish line and Lap Times will be correct), and the other consideration is that sectors cannot be used in this mode.
2. **Manual Mode:** When this mode is chosen then rider is prompted to press a button as they cross the tracks' start/finish line. This will ensure that a new lap is started exactly as the rider crosses the start/finish line. The rider may also choose to add up to four sector points around the track, simply by pressing the button again at the points he wishes to record sector points.

The user may choose a few different ways to view the data

1. **Basic:** This is like a typical advanced lap timer, where the last lap time, best lap time, the difference between the last lap and the best lap and the difference between the last lap and the lap before. The SETUP->LAP TIMER screen allows the user to select exactly what is shown.
2. **Sector Times:** As the name implies, this will display to the rider the sector timing as opposed to complete lap timing.
3. **Beacon Times:** As sector times, but this shows the time from the start/finish line to the sector.
4. **Predictive:** This will show the rider what lap time he WILL DO. This allows the rider try different lines etc and he will be able to instantly see if this will mean a good lap time or not. It is particularly useful in qualifying as the rider will know what lap time to aim for and he will, at any point around the track, be able to see if he is on a good lap or not.
5. **Predictive Difference:** This will display a + or – time compared the best lap. For example, if the display shows -0.100 then the rider will know that he will beat his best lap time by 0.100 seconds.

Display modes 2 to 5 are only available with the GPS option.

# HM DASH

## ***Revolutionary new software released for the HM Dash Firmware Version 5***

Our developers have been working on a brand new release of the Dash firmware, which is a free update available from our web site. This new software platform includes the following features for the GPS lap timer:

- AUTO mode – this allows a rider to show up at a track and simply ride. The Dash automatically calculates the correct beacon point and lap times. No intervention required!
- MANUAL mode – The user can, if they want to, setup the beacon point exactly on the start finish line.
- SECTORS – The HM Dash now allows up to 5 sectors to be easily set.
- 1/1000<sup>th</sup> Second accuracy – making the HM Dash by far the most accurate GPS lap timer.
- PREDICTIVE Lap Timer – this is an amazing and very power tool for the rider. In Predictive mode the HM Dash shows a Lap Time that the rider WILL DO if he continues at his current pace. This is updated 100 times a second (unlike all other systems that may update three or four times in a lap) making for an instant and seamless display. The usefulness of this mode cannot be overstated – it adds whole new dimension to riding. For the first time a rider can see what his lap time will be rather than what his last lap time was. (Last lap is still displayed). This means that the rider can try a different line and see instantly if it worked. He can also glance at his dash at any point around the track to see if it is worth pushing. For example, say that a rider is hoping to do a 47second lap, well after, say, turn 3 the rider can glance at the Dash, the dash may say 47.825 and this means that it is not really worth risking crashing on the rest of the lap because he is already slower then he hopes for. Alternatively if it shows 46.555 for example then the rider can see that is it very much worth continuing to push hard.
- Datalogging – the HM Dash now automatically datalogs key information such as speed, RPM, gear, temperature and position. This does not need to be setup or configured, simply ride!
- HM Dataviewer – This is a free software tool that allows the rider to view his session in 2D or 3D (like an arcade game). He can compare his lap to other laps or even laps from other people allowing easy study of lines / braking points etc. You can also 'race' against another rider or the same rider. We have teamed up with game developers to give you track mapping and data visualisation that has never before been available.

All this for the same price of £541.66 excl and the GPS option is £166. Existing HM Dash owners can download all of these features and updates for free from our web site.

It really has to be tried to be believed, it truly revolutionises Dash boards and Lap Timing!

Go to [www.hmdash.com](http://www.hmdash.com) to learn more

Currently, the new release is only available for the Suzuki range, but the rest are very soon to follow.