

Shimano Di2 Wireless D-Fly Data Management system

Introduction

E-tube describes the topology of Shimano's electronic shifting product, Di2. It's a wired bus system that allows electronic signaling from control devices (levers and switches) to enable gear changes at the derailleurs.

The system contains a controller which connects the wired components, allows switching between shifting modes, shows the battery level and provides the charger access. The battery contains the system firmware and in the latest iterations of the product, typically resides in the seat post rather than on the frame as in the past.

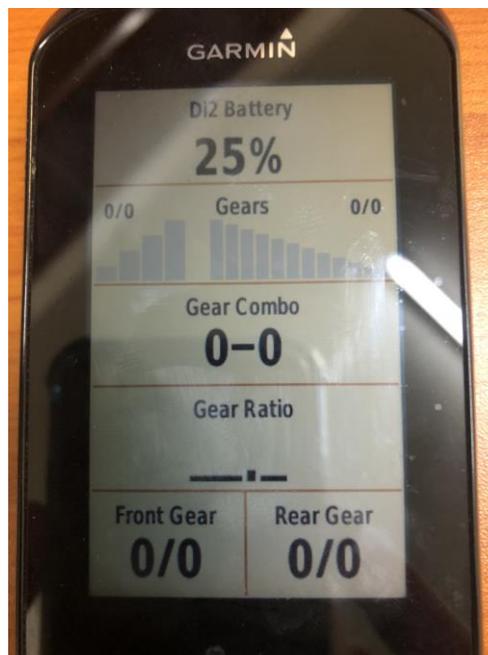
The e-tube project is the software applications that allow a user to interact, update firmware and change Di2 settings via a PC or if the D-Fly is fitted, Bluetooth wireless device.

[You can read more about that here.](#)

D-fly

In 2014, Shimano told us about a new addition to their e-tube platform, the Shimano D-Fly Data Management system. Confusingly on a press release dated 02/05/2016, they state that new capabilities would become available in Q1 2014, thus hurting my brain. Nonetheless, this unit which runs inline with your Di2, gathers and sends information to your compatible head unit and the results are fascinating.

[While the D-Fly can be used to customize shifting from your smart phone](#) lets have a peek at the sorts of data gathered and displayed on your compatible cycling computer, which is more useful when on the road.





Mark Harris kindly shared his experience and advises that this level of visibility provides confidence in the Di2 battery status, rather than charging every few weeks and hoping for the best. For those of us who may have suffered a Di2 flat on the road, this alone may be worth the price of admission. And weighing in at 5 grams and sitting inside the frame or handlebars, you're not even going to know it's there.

The total number of gear changes is a thing not usually considered as you go down the road, however the gear change data provides insight into chain and cassette wear and tear.

Distance(km)	Elev(m)	Front Shifts	Rear Shifts
170	2277	84	1213
40	189	6	92
40	182	9	101
47	310	12	173
50	245	9	172
44	251	14	139
200	2065	70	967
40	193	14	131
45	302	16	132
41	185	9	90
32	576	26	251
46	194	9	108
40	173	7	121
53	338	14	205
26	375	30	235
72	1601	106	772
40	186	8	130
40	184	8	117
50	330	18	208
50	595	22	337
40	192	6	71
40	164	6	108
57	315	6	229
80	545	18	336
118	1945	89	1016
46	203	8	115
41	177	8	145
45	296	13	146
Total	Total	Total	Total
1633	14588	645	7730

29/07/2018

23/08/2018

25 days