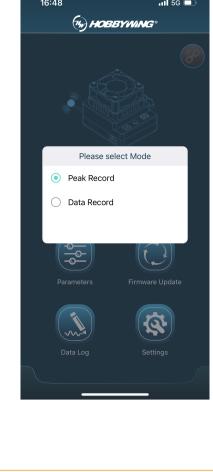


"Peak Record" and "Data Record":

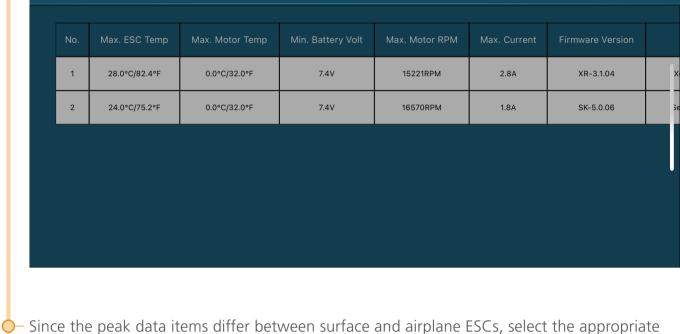
— Clicking on the "Data Log" option on the HW LINK APP homepage will display two modes:



Peak Record +

as the Maximum ESC/Motor temperature, Minimum battery voltage, Maximum motor RPM, etc. Peak Record(Surface) 回

- Refers to the maximum/minimum values recorded during the last operation by the ESC, such



- $\bigcirc$  1.1. Surface: If the ESC is for car or boat models (e.g., XERUN ,SEAKING V4 series), select this option.

**1.2.** Aerial Models: If the ESC is for airplane models (e.g., Platinum series), select this option.

(Historical Data)." 11:11

Real-time Data

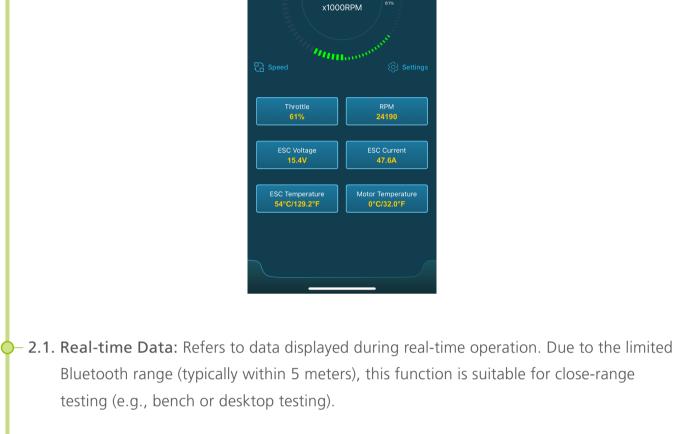
<

- Selecting this option will take you to the viewing page for "Real-time Data" and "Data Log

Data Record -

option based on the ESC model being used.

24.2 x1000RPM



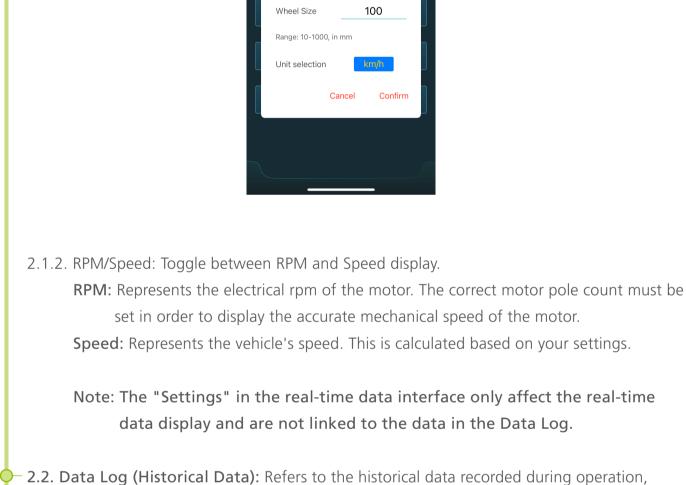
accurate speed data. 11:42 **∻** 40•

2.1.1. Setting: Here, you can configure the gear ratio (Final Drive Ratio, FDR), motor pole, tire

diameter, and speed unit. After setting these, the real-time data interface will display

Speed calculation settings Gear Ratio 4.50 范围:0.01 - 100.00 2 Motor Ploe

Range: 2-100, must be even



0.0

Data Log From OTA/Bluetooth Switch

From ESC From File

11:43 **∻** 40• < Real-time Data

displayed as a graph.

2.2.1. OTA Module/Bluetooth Switch: Refers to using an OTA Bluetooth module or Bluetooth switch to record operational data. Check whether your ESC requires a Bluetooth module during running or if it has a Bluetooth switch. If so, select this option. Cur rently, most Hobbywing ESCs fall into these two categories, such as the XERUN XR8 Pro G3 (OTA Bluetooth module), XERUN XR10 Pro G2S (OTA Bluetooth module), EZRUN MAX6 G2 (Bluetooth switch), and EZRUN MAX5 HV Plus G2 (Bluetooth switch).

2.2.3. File: Local data storage file. After viewing the data log, a local file is automatical ly saved for future reference. Note: The RPM displayed in the Data Log corresponds to the electrical rpm of a 2-pole motor. For a 4-pole motor, divide the displayed RPM by 2 to obtain the actual mechanical speed; For a 6-pole motor, divide by 3. Formula: Mechanical ical RPM = Displayed RPM / (Motor Pole / 2).

2.2.2. ESC: Refers to operational data being recorded directly within the ESC. No OTA Blue

with the primary example being the XERUN XR10 Pro G3/G3X.

tooth module is required during running (connect the OTA module only when viewing the data after operation), nor is there a Bluetooth switch. This method is currently rare,

Data Log ESC Voltage **ESC Current Throttle** Temperature 0°C/32.0°F Temperature 15.0V 56°C/132.8°F 100 15.9 126 71

105 64

Graph Data Explanation |

84 15.7

67 15.5 84 56 **50** 15.3 63 34 15.1 18 14.9 01:57:880 1 14.7 01:31:500 01:36:780 01:42:060 01:47:340 01:52:620 — Horizontal Axis: Represents time, in units of minutes/seconds/milliseconds. O Vertical Axis: Represents the recorded data items, such as RPM, throttle(%), input voltage(V), operating current(A), ESC temperature(°C/°F), and motor temperature(°C/°F). Different colors represent different data items. For example, in the graph above,

the red curve represents operating current, with a range of 0–126A and a peak

of 126A. The green curve represents ESC temperature, with a range of

The data values in the top row represent the data at the moment you click, indicated by an orange vertical line. For example, the values above correspond to the data at approximately 1 minutes and 49 seconds: 39910 (RPM), 100% (throttle), 15.0V (input voltage), 100.2A (current), 56°C/132.8°F (ESC temperature). When viewing graph data, you can use the touchscreen to perform operations such as

26-71°C and a peak of 71°C.

corner resets the view to its original state. The pink icon in the upper left corner toggles between RPM and Speed display. The speed

display requires correct settings for motor pole, gear ratio, and tire diameter in the ESC

stretching the view and moving the time-line, etc. The four-arrow icon in the upper right

parameters to show accurate speed data. Currently, ESCs with this feature mainly include the XERUN XR10 Pro G3/G3X (The icon will not appear here if the ESC does not have this function). Note: Not all data items will be available, as this depends on the ESC's capabilities. For

example, sensorless ESCs or motors will not have motor temperature data, and some ESCs may lack current data. Please verify based on the specific ESC model being used.