

User Guide - RaceData

RaceData is an Android Wear OS app that displays Expedition data on your wrist.

Key Features

- Clear, easy to see data in fully customisable 4, 2 and 1 data screens
- Seamlessly hands off from WiFi access point to access point giving fantastic range even on the largest of yachts
- Does not require any additional hardware or a nearby phone to operate

This app has been tested with the Google Pixel Watch 4 and the Ticwatch Pro 5 in multiple environments. It requires a minimum of WearOS v3.

Step 1: Install the App

1. Install RaceData from the Google Play Store
2. Ensure your watch is on the same network as your Expedition installation

Step 2: Set up Expedition

1. In Menu > Instruments (or Ctrl-I), select a Network port.
 - If you do not have a spare Network port then add one at Menu > Instruments > # Number of Network Connections
2. Set up your Network port as follows:
 - **Instruments:** Expedition
 - **Connection:** UDP
 - **Address:** This should be the IP address of the network port your watch AND Expedition is connected to. Recommend setting the last field to *.255 (broadcast to all addresses). For example, if your IP address is 192.168.20.13, set the address in the Instrument field to 192.168.20.255
 - **Port:** RaceData default port is 6011. You can either change the port here to 6011, or change the RaceData port.
3. Apply these changes and click Expedition Settings.
 - **Exp Rx Filter:** Clear All
 - **Exp Tx Filter:** Select the Expedition channels you wish to send to RaceData.
4. Apply these changes and verify in Raw Data that you have data streaming from Expedition.

Step 3: Configure RaceData

NOTE: if you press the Padlock icon in the centre of the screen, you will lock the touchscreen and will not be able to edit the data fields or access settings.

When LOCKED, an extra page is added to the bottom of the list with a swipe pattern that will unlock the touch screen. Scroll to this screen and follow the pattern shown to UNLOCK

OR

Press and hold the centre of the screen until you feel 5x vibrations.

1. Start RaceData and tap on one of the data fields, then tap the Settings Icon to the right
2. Select the number of data pages for each configuration
3. Swipe up on the screen/rotate the crown dial to scroll to the UDP Port setting. Use the +/- to adjust
4. **Set Home App.** You may set RaceData to be the 'Home App' which is launched when the Crown/Dial is pressed
5. **Power Saving (default ON).** Adjust settings to suit.
 - After no activity and the 'Dim after' period, the screen will dim to the Min brightness

Step 4: Configure Data Pages

1. Once you have configured RaceData, you may select data for each field. Tap on that data field and select data from the list.

Note: Stale (unchanged) data will turn grey after 10s, and if no data received will turn red after 20s.
2. Rotate the Crown/Dial slowly or swipe vertically to pass between each page.
 - A small number will show at the top of the screen to show which page you are on, for example 2/4 means page 2 of 4.

Recommended Settings

1. **Disable Bluetooth** in Watch Settings > Connectivity > Bluetooth. This will greatly enhance the stability of the WiFi connection.
2. **Allow screen off** in Display Settings on the watch. With Home App set to RaceData, a simple press on the crown will relaunch the app.
3. **Disable Accelerometer** - this uses additional battery power.
4. **Adjust max and min brightness** depending on your environment.
5. **Disable any other sensors** (such as HR or GPS) to extend battery life.

Troubleshooting

No Data Received

RaceData monitors the WiFi connection status. It is not possible for Wear OS apps to force WiFi on. After a period of inactivity the System may turn off WiFi. If this happens you will see the No Data warning at the top and No WiFi at the bottom of the screen.

You will have to turn WiFi back on by either navigating to Settings > Connectivity > WiFi using your watch menu, or unlocking RaceData and tapping on the No WiFi alert that will take you to the WiFi settings.

Otherwise verify:

- Check your WiFi is stable
- IP address and UDP port settings match between your watch and Expedition
- Expedition Instruments > Raw data is sending data
- 'ping' the IP address of the watch from your Expedition PC
- If no reply to the ping, check your network settings

Data Keeps Dropping Out

Check Bluetooth is disabled. WearOS aggressively disables WiFi if Bluetooth is available.

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