TScore



Veriflite Integration Guide

This document includes features introduced at TScore v11.3

TScore *the complete Trampoline Competition package*

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TScore-Veriflite Link Module

Introduction

The TScore-Veriflite link module (V-Link) lets you directly record time of flight (ToF) and synchro (SYN) scores in TScore, using the Veriflite trampoline sensors.

The module has its own user interface that you can position alongside the normal TScore Scoring screen or, if you prefer, you can run it on a separate laptop.

V-Link receives connection requests from the TScore Preferences->Panels screen (where you can click the ToF light or the Connect button to detect running V-Link on your network for each panel.

The copy of V-Link for your panel receives the 'Next Gymnast' message when you click **Start Scoring** on the TScore tablet scoring screen. It displays the gymnast's name, club, round & ID, and switches between Individual and Synchro mode to match the current class

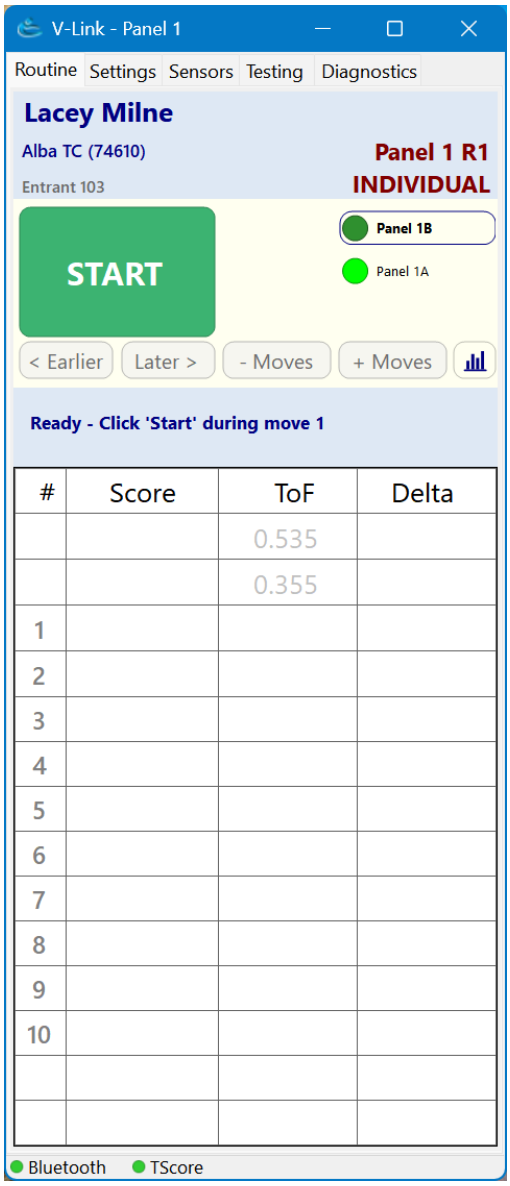
V-Link can connect to your Veriflite sensors using either (a) the 'Labs' web service in your Veriflite App or (b) direct Bluetooth connection to the sensor. Option (b) is the preferred method (but you will of course need a Bluetooth enabled laptop – or a Bluetooth USB adapter).

Clicking the 'Start' button on V-Link begins timing the routine, which then auto-completes after 10 moves. You can manually stop the routine if it is interrupted, and Restart if you clicked Start too early.

V-Link continuously records sensor 'events' (landings, take offs, missed events and other 'housekeeping' notifications) so that when you record a routine it doesn't matter if you miss the start – you can back up or roll forward a few moves as necessary.

Initial Setup

Launch the V-Link application on Windows. You will see the main ToF/SYN scoring screen (Much of which will be blank when you first start):



At the top is the title (which also shows the current panel)

Next is the tab bar to change settings, testing & diagnostics.
This line shows the name of the current gymnast

And their club, Panel and Round
And whether this is an Individual or Synchro routine

This pane has the **Start**/**Stop**/**Restart**/**Clear** buttons, plus activity indicator lights for each attached sensor.

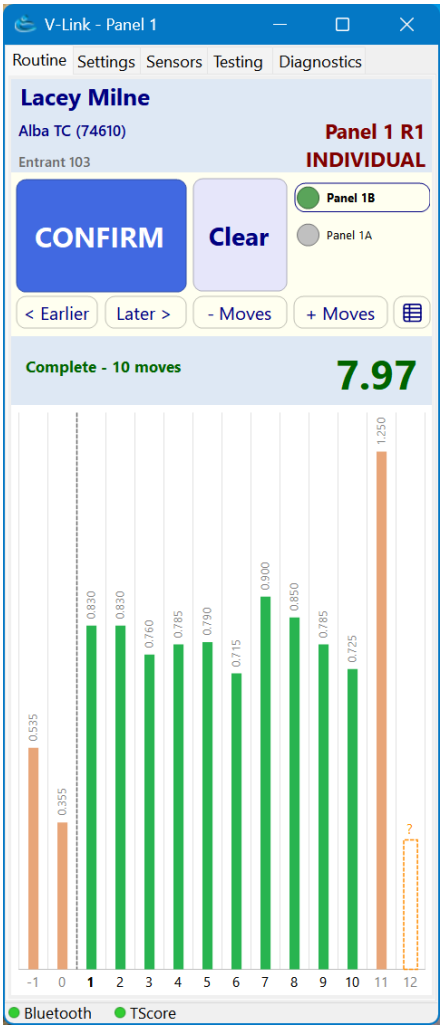
These buttons let you adjust the routine start and moves, ad swap between table and graph display modes.

This section has prompts and the total score for the routine.

When a routine is being recorded, the scoring grid will show you the time of flight recorded for each move, the 'delta' difference from the previous move, and the actual score.

At the bottom is the status bar, showing the current connection status for sensors and the TScore database





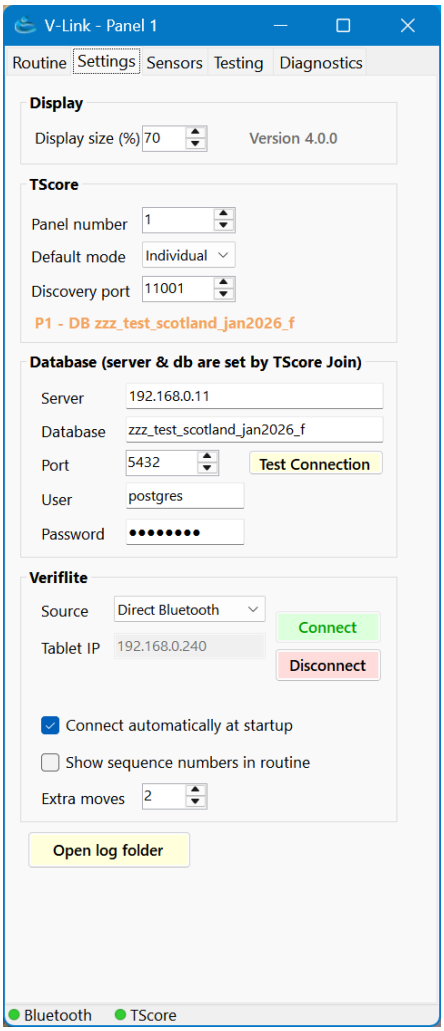
When the routine completes, the buttons change to let you **Confirm** or **Clear** the scores.

You can use the **Earlier/Later** buttons to adjust the starting move of the routine, and the **+/- Moves** buttons to change the routine length.

You can also swap to **Graph** view for a handy visual representation of the flight times.

Sensor Configuration

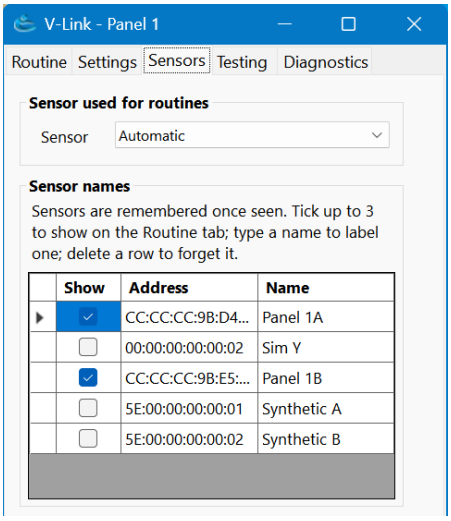
The first step is to connect and configure your sensors. We shall begin with the preferred Bluetooth connection, for which your laptop needs a (reasonably modern) Bluetooth adaptor.
Power them up normally and go to the Settings tab in V-Link. In the Veriflite box, pick the **Direct Bluetooth** source option and click connect. After a few seconds the Bluetooth status light should turn green, indicating a connection has been made. (you may need to shake the sensors a bit to wake them up!)



While you are on this screen, set the Panel Number that you want to use with V-Link. This ensures that TScore communicates with the correct V-Link instance on the network.
You do not need to set the server or database related information at this stage, as that is mostly automated.

The **Extra Moves** setting lets yo view up to five pre- and post-routine bounce times in the grid and graph, to assist with changing the routine starting move, and to check times are registering before the routine starts.

Next, click on the Sensors tab to check the labels of the connected sensors.
Choose the sensor to be used for recording, or **Automatic** to choose the one showing activity. If there are multiple panels running, you should lock your panel to a specific sensor.
If you choose a single sensor and a Synchro pair compete, V-Link will automatically pick up the linked sensor to use for the second gymnast.



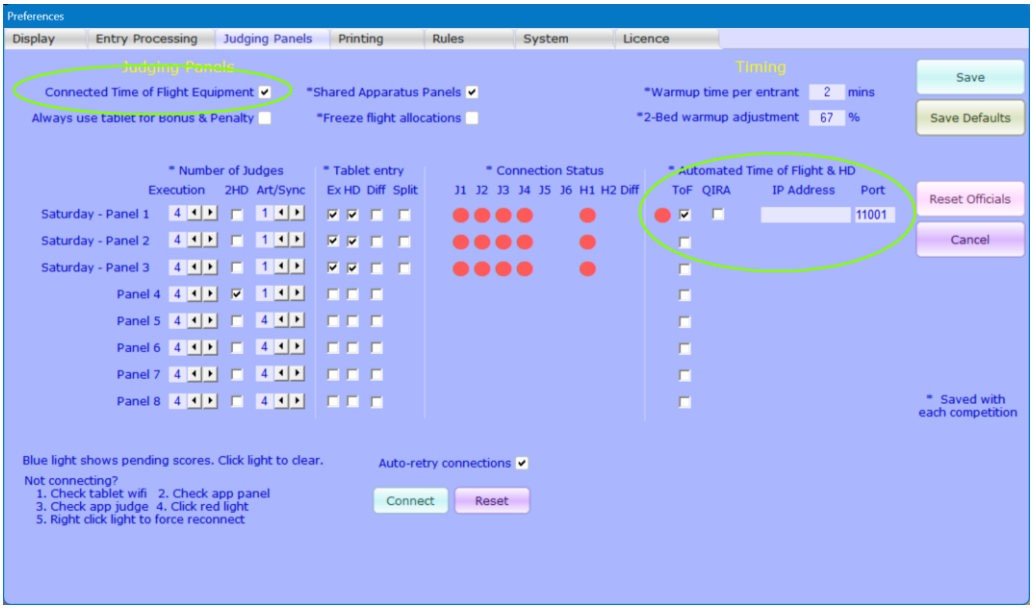
Hint: Clicking on a sensor light on the Routine screen will toggle between locking to that sensor or reverting to Automatic. The Locked sensor is highlighted on the Routine screen.

Tick the **Show** boxes on up to 3 sensors that you want to be displayed on the main screen.

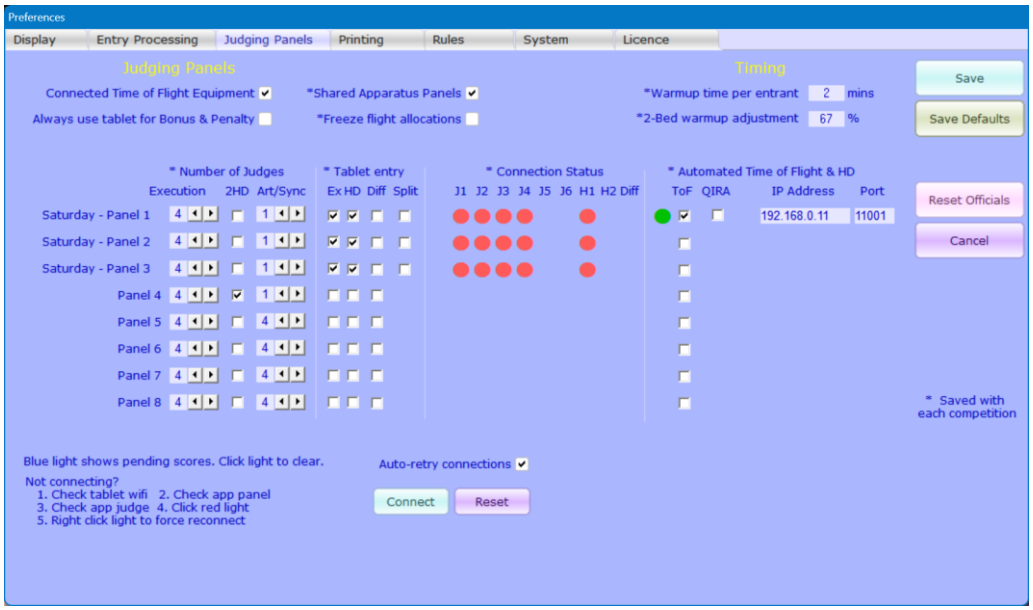
Note that if you have not previously configured your sensors, you may want to give them names and set pairing numbers to link sensors used in Synchro.

Configuring TScore

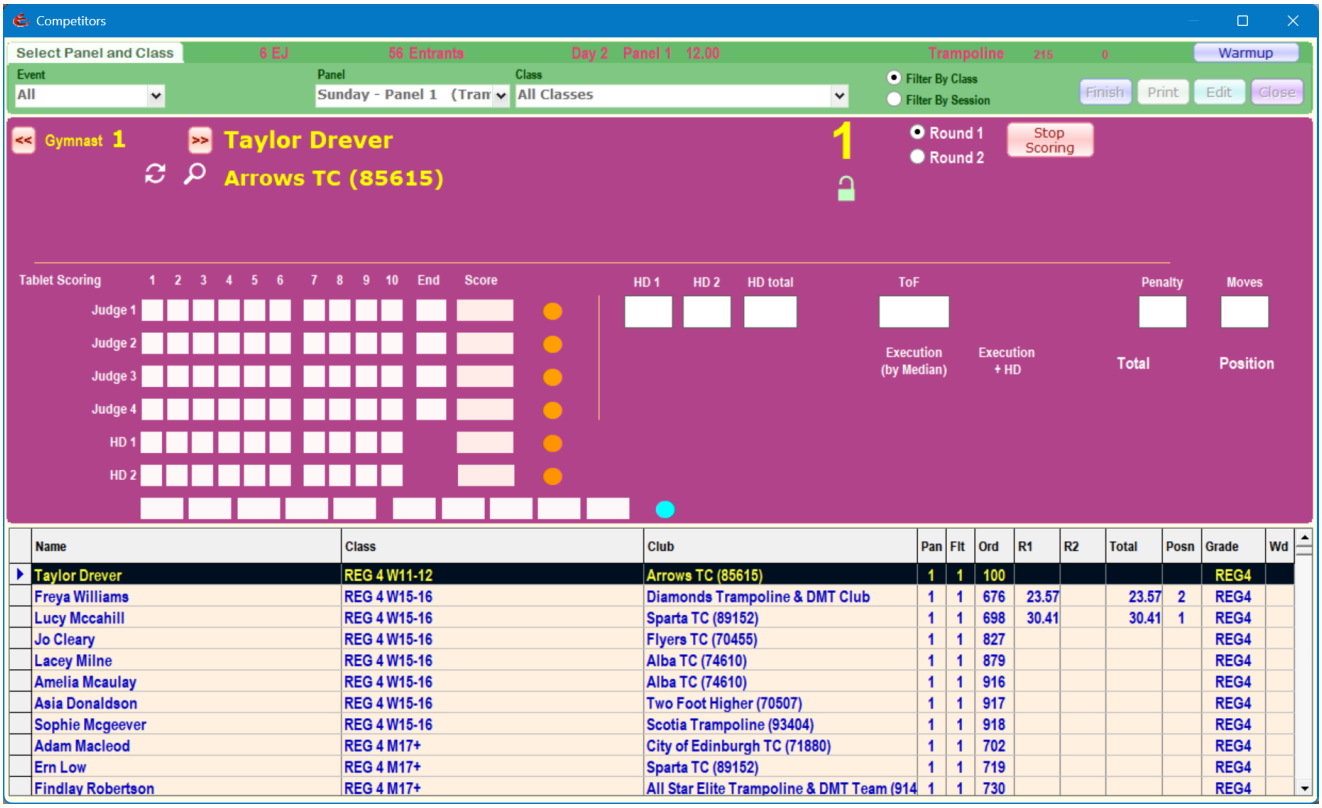
You now need to configure TScore to use the Veriflite ToF feed. Go to **Preferences**=>**Panels** and check the **Connected Time of Flight Equipment** box (You will need a special feature licence for this option). Then click the ToF box.



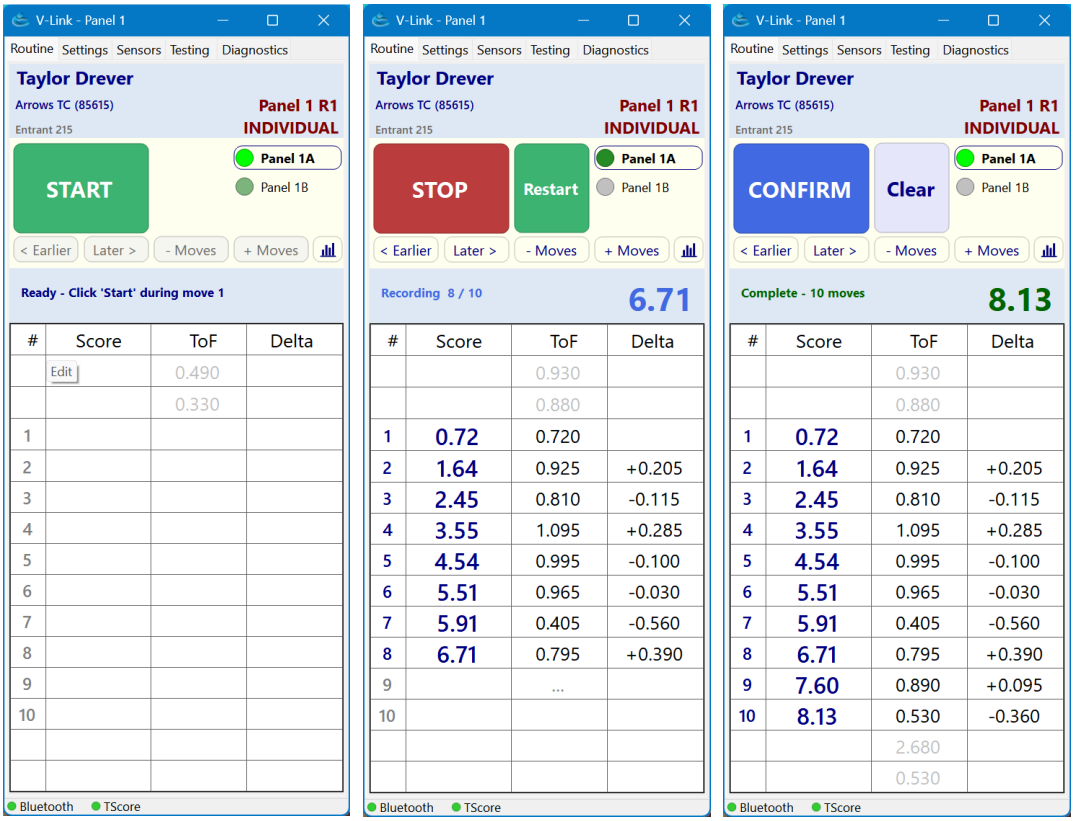
V-Link supports auto-detection, so you do not need to fill in the IP Address of Port number. Just launch V-Link on any laptop on your network (you can use the same one as TScore) and set the Panel number there. Now click the red ToF light and it should connect on port 11001.



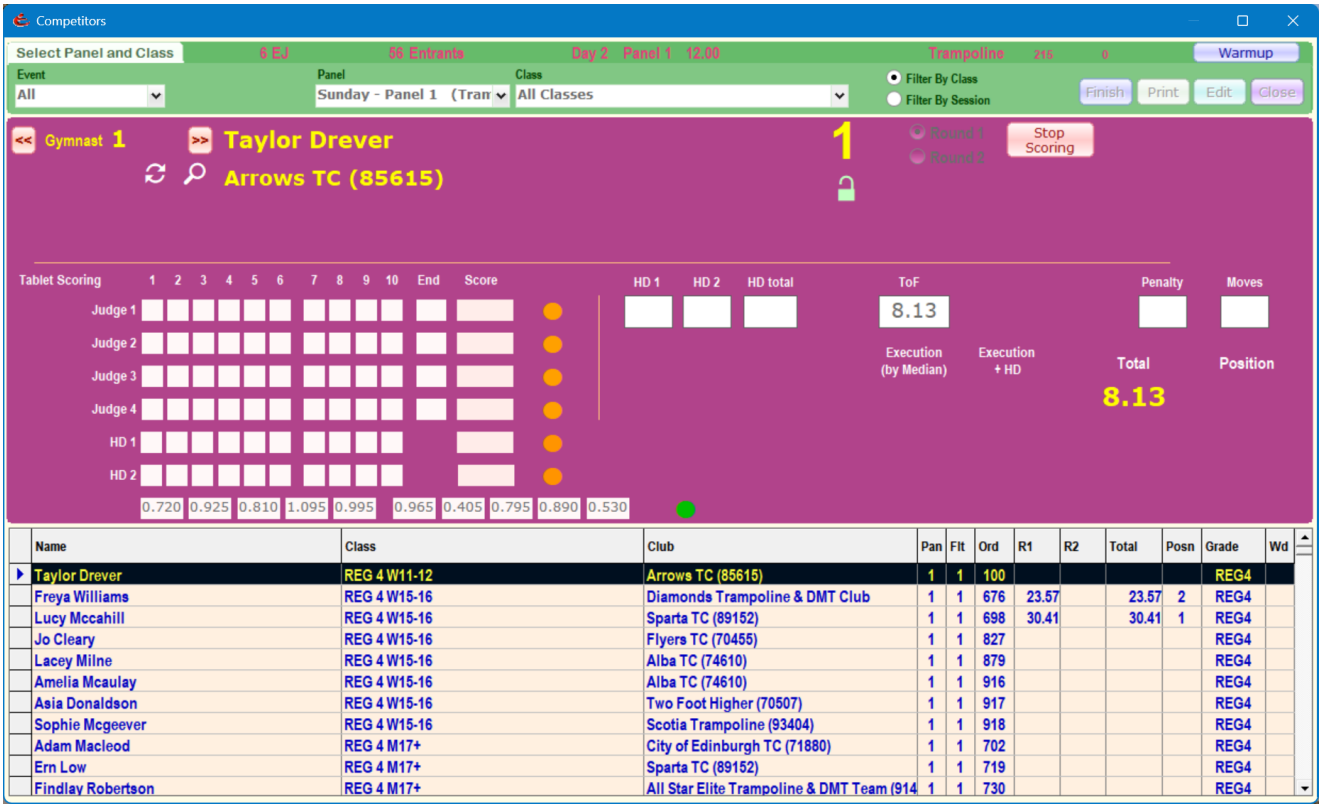
You can now go to Scoring->Tablet screen, select the panel and session (or class)and click **Start Scoring**



All the lights should change to their 'Ready' state. The V-Link app screen will update to show the current entrant and is now waiting for you to click **Start** (or the keyboard Space bar) during the first move of the routine.



When you Confirm, TScore will update...



...and the other judges scores arrive.



You can of course now reduce the number of moves for an interrupted routine as usual:

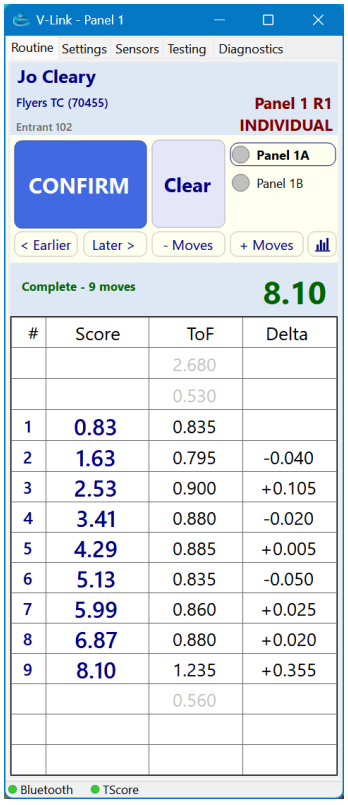


Now **Save** and move on to the next competitor.

Adjusting the Start Point and Routine Length

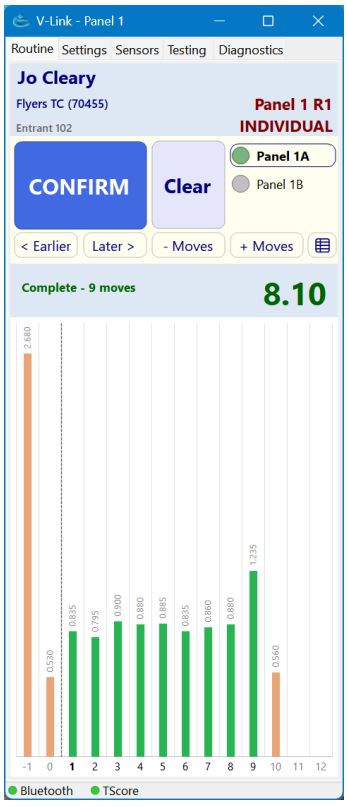
Veriflite-Link offers a number of advanced features, such as being able to adjust the start point and number of moves in a routine. To change these, once the routine has finished simply click on the **<Earlier** **or** **Later** buttons to move the start point, and the **-Moves** / **+Moves** buttons to change the number of scoring moves. The number of moves will be passed on to TScore when you Confirm.

You may find the swapping to **Graph** mode is helpful when adjusting the start point. As an example, suppose you were late clicking **Start**, and the routine finished when only 9 moves had been counted.

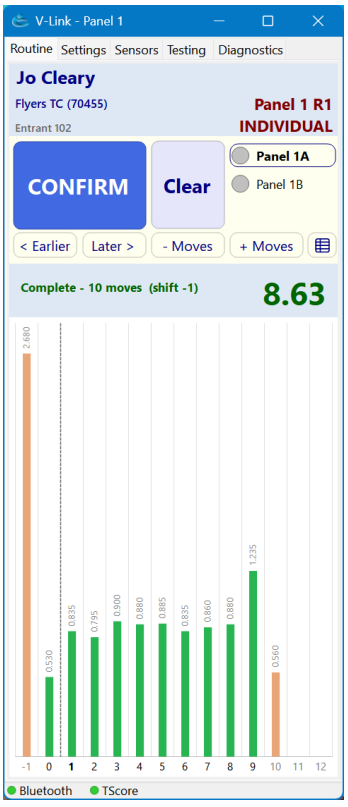


With only 9 moves in the list, we need to shift the start point back by 2 moves, and then increase the number of moves by 2



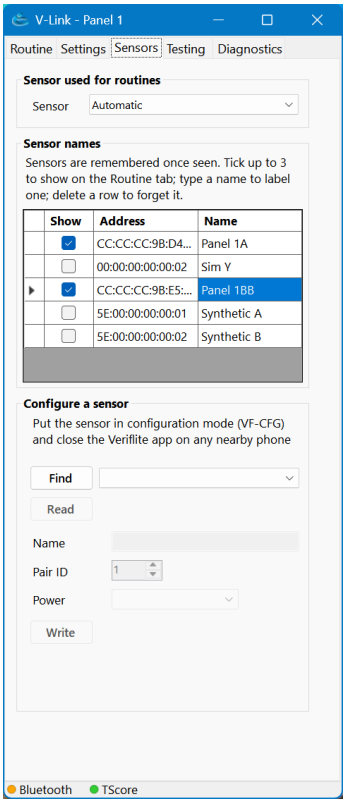


When making adjustments, it is often easier to see what it happening in **Graph** display mode.
The dotted vertical line shows you where you actually clicked **Start**.
Bar heights show the ToF for each recorded move.
Green bars are the ones included in the routine
Orange bars show previous and later move times.
When you scroll earlier or later, further recorded times will appear.
You can adjust the number of these additional times to show on the Settings screen.



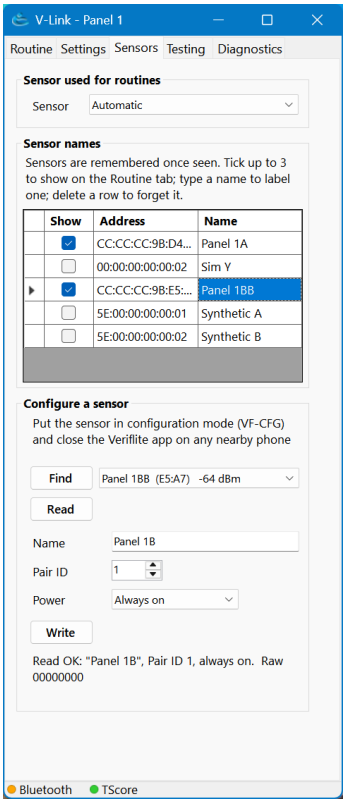
Advanced Sensor Configuration

If you would like to show different names for your sensors you can simply edit the labels in the ‘Sensor Names’ table on the Sensor tab. Changes made here are NOT written back to the sensors themselves, which is useful if you have borrowed sensors and do not want to change their existing assigned names.



Alternatively, you may want to actually change the names stored on the sensors themselves, and/or change the pairing values used to associate synchro sensors.
For this, you need to restart the sensor in Configuration mode by holding the power button for about 10 seconds when starting it. It should flash green slowly.
Now click the **Find** button in V-Link to detect any sensors currently in configuration mode. Pick the one you want to change from the list.
Click **Read** to get the current values from the selected sensor.

You can now make any changes and then **Write** those back to the sensor



Obscure Features and Options!

There are a few additional features that you should rarely need to use, but just for the curious…

Event Logging

V-Link records all of its events to daily logfiles. These are held in C:\Users\<username>\AppData\Local\VerifliteLink

The Scores log is a csv file with the following typical entries:

Time	Panel	Judge	Entrant	Name	Club	Round	Moves	TotalToF	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	All Confirmed	Result
14/11/2026 14:11	1	100	215	Taylor Drever	Arrows	1	10	8.13	720	925	810	1095	995	965	405	795	890	530	Y	Saved
14/11/2026 14:55	1	200	348	Leah Mackie & Freya William	Diamonds	1	10	0.06	5	5	5	5	5	10	0	5	5	15	Y	Saved Synchro 0.15

This log may be used to recover lost scores or to analyse the score action sequences.

Alternative sources – Veriflite Labs Portal

If your laptop Bluetooth connector is not suitable for the Veriflite sensors, or the signal is poor, you can instead try using the Veriflite 'Labs' Portal web service from the Veriflite app on a tablet or phone. This has been noted as being slower to update than the direct Bluetooth link, but might be handy if, for example, your Laptop is too far from the sensors to get a good signal. In these cases, the Veriflite app can be placed closer, and left running unattended in Labs Portal mode, collecting the sensor data and retransmitting over Wi-Fi.

We have noticed that the Portal may stop working after a period of time (hours) – possibly due to tablet power-saving options. Restarting the app and/or reconnecting the tablet to the Wi-Fi should fix it.

When selecting 'Veriflite App (Wi-Fi)' from the Veriflite section of the settings screen, you will need to provide the IP address of the tablet running the service.

Whenever you change the Veriflite source, you must Disconnect and Reconnect using the adjacent buttons.