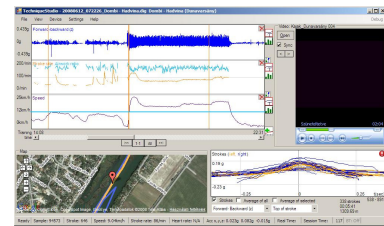


A brief introduction to TechniqueStudio

The TechniqueStudio (TS) PC-software provides methods for analyzing sporting technique and performance. TechniqueStudio works together with DigiTrainer, and uses its measurements for deeper analysis, graph-drawing and other modalities.



1. DigiTrainer



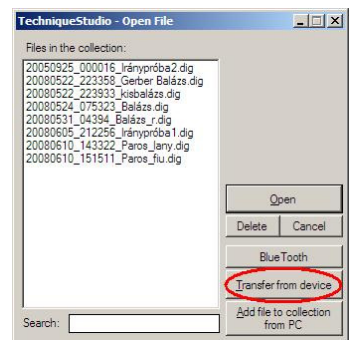
2. TechniqueStudio

Uploading measurements from DigiTrainer to TechniqueStudio

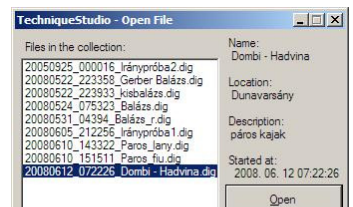
When some sessions have been recorded with DigiTrainer, these measurements can be studied on the computer as well.

First you need to connect the DigiTrainer and the PC with an USB-cable, and select „Transfer from device” in TS. The software copies the found sessions from DigiTrainer, and asks information about them (like the name of the athlete or the location of the measurement) in order to ease subsequent identification of the file. Afterwards the new sessions are added to the list of „Open File” dialog, and can be opened without DigiTrainer.

3. Giving information about measurement



4. Before uploading

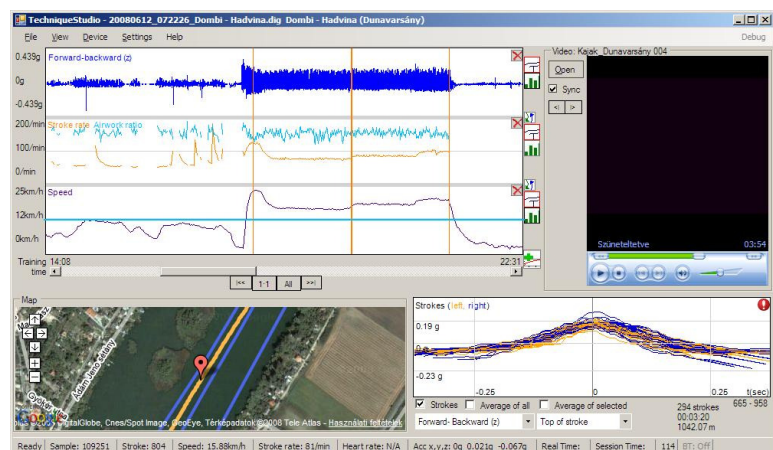


5. After uploading

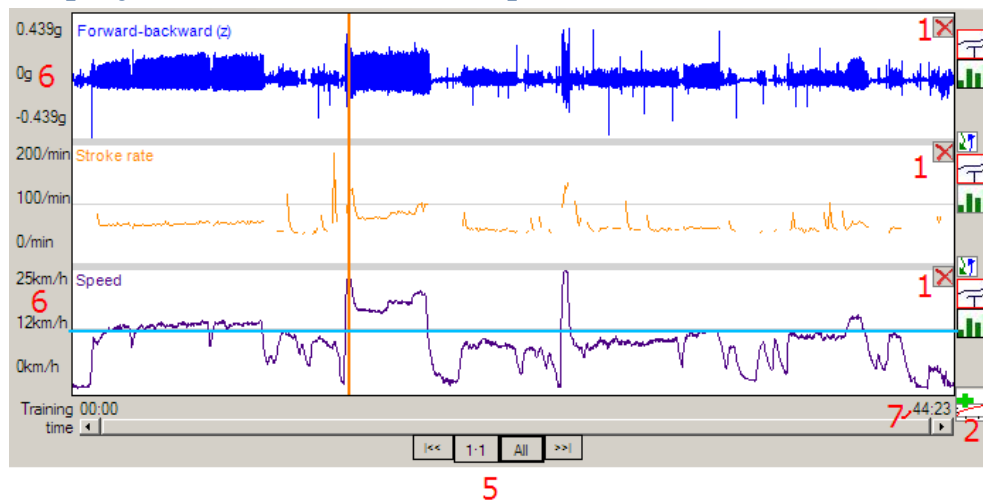
First look to TS with an opened measurement

The main window of TS has four main controls:

- Various charts
- Video-player
- Map
- Chart showing strokes



Displayable charts of TechniqueStudio

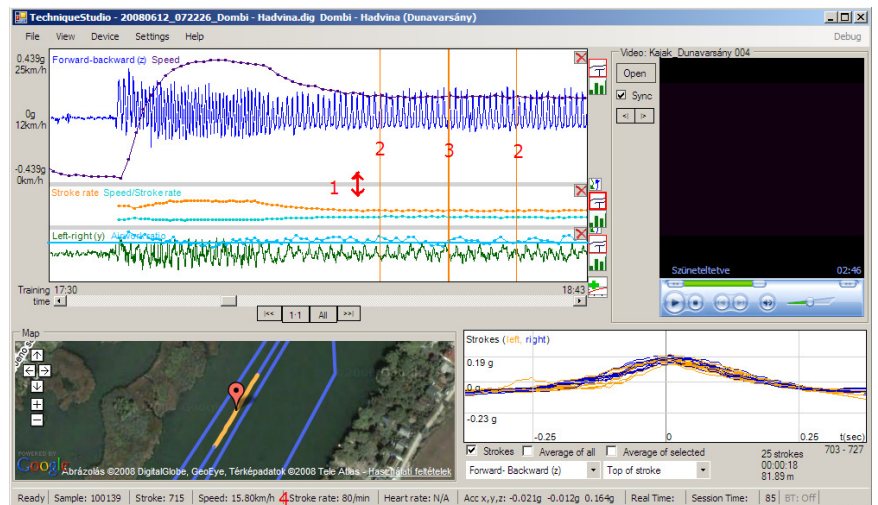


The chart-area is divided into three rows (slots) after opening a file, but later you can close a row with the red crosses (1) or add a new one with the green plus (2). You can set for each slot freely which graphs to show with clicking to (3) or (4) and select the necessary ones from the appearing menu.

Under (5) you can zoom in, zoom out with the two centered buttons or jump to the beginning or to the end of the timescale. (6) shows the values and unit of different graphs, (7) shows the time since the session's start, the real time or the number of strokes – it's selectable with right-clicking on (7).

Numerous charts can be selected and plotted at the same time. With dragging the gray line between slots (1), you can alter the height of the different rows.

With the mouse you can select an interval, which is enclosed by two orange lines (2). There's a third one between the two thinner (3), which acts as a marker. At the bottom of the window (4), several data are displayed (speed, stroke rate, heart rate, ...), which were recorded in the moment signed by the marker (3).

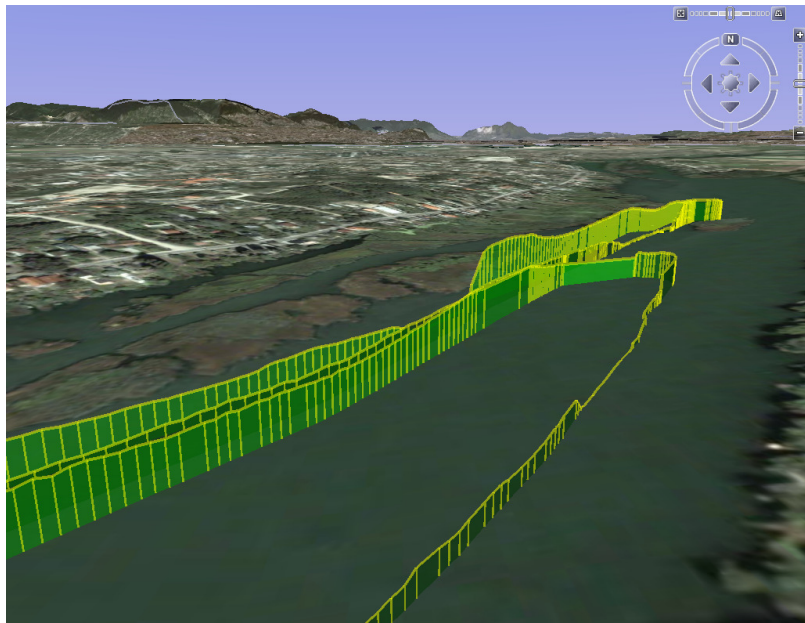


The Map

To display the map, the session has to contain valid GPS data and TS requires internet connection during the analysis.

As the upper image shows, the whole route of the sessions is denoted by a blue line on the map. The path recorded under the selected interval on charts is drawn in orange.

You can see the height of the line as the function of speed if you open the exported file (File menu -> Export -> Map to .kml) with the free Google Earth (<http://earth.google.com/>).



Video-analyzer

First, open a video-file by dragging or with the Open button.

If you found the same moment with the marker and with the video-player, check „Sync” and the two controls will remain in synchrony even if you seek or play the video. With this opportunity you can analyze every frame with the concurrent measured and calculated data.

With the two buttons under „Sync” you can step forward or backwards frame-by-frame.

Once you synchronize a data file and a video, the TS stores it and next time you open the data file, the synchronization happens automatically.

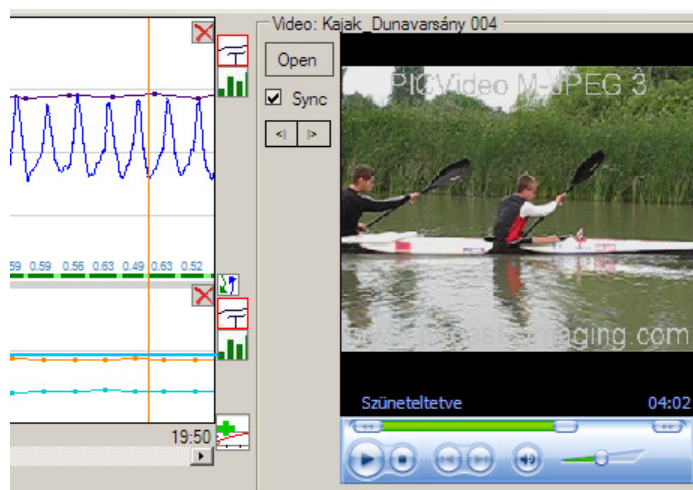
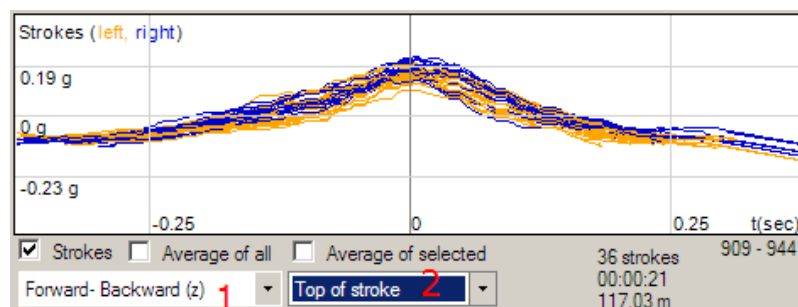


Chart of strokes

The selected strokes are plotted on each other in this fourth window-part. The left-right strokes are distinguished by colors, helping you to discover any characteristic differences between the arms.



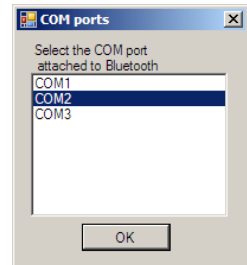
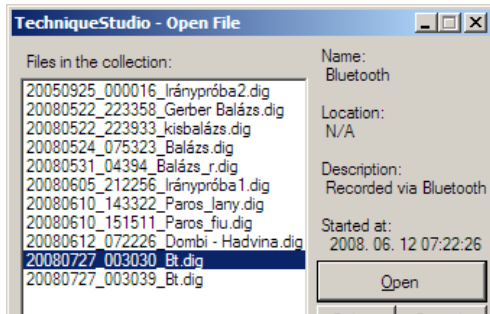
6. Strokes with stronger right arm (higher blue curves)

You can see only the averages of the two arms if you check the second or third checkbox, offering the possibility to analyze the change of technique over a longer period.

All the three axes can be studied in this chart, you can select in the first list box (1). A further opportunity to join the strokes at a different point – try it with the second list box (2)!

Bluetooth connection

The DigiTrainer can provide real time data to TechniqueStudio using Bluetooth connection. If you set this option on the device, you can connect to it using the File menu -> New Bluetooth connection. After selecting the COM-port of the Bluetooth (probably one with a higher number), you can see the strokes, speed, hearth-rate data and others arriving real time via Bluetooth.



The received data is automatically saved to a file in the background, that's why you can later open it just like it has been uploaded via USB.

Views

According to your tone, the Views menu enables you to alter the outlook of the software, to lengthen the timeline or to see the video in bigger size – try it yourself!

If you have any questions, ideas, feel free to contact us!

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