Viewer

USER MANUAL

Nacsport Viewer
Version 6.0
05 August2020

nacsport

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0.SYSTEM REQUIREMENTS

A computer with any version of Window 7 or higher is needed to use **Nacsport Viewer** correctly.

Technical requirements

Minimum requirements

Operating System
Windows 8 (32 or 64bits)

Hardware
RAM Memory: 4GB
Processor: Intel© Core i5 or similar
Video memory: 256MB dedicated memory (not share with general RAM)
Screen resolution: 1366 x 768
At least 300MB free hard disk space to install software

Recommended requirements

Operating System
Windows 10 (32 or 64bits)

Hardware
RAM Memory: 4GB
Processor: Intel © Core i7 or equivalent
Video memory: 512MB dedicated memory (not share with general RAM)
Screen resolution: 1920 x 1080
At least 300MB free hard disk space to install software

Useful links
FireWire: http://en.wikipedia.org/wiki/IEEE_1394
CPUs: http://www.cpubenchmark.net/
HDMI: http://en.wikipedia.org/wiki/HDMI
VGA: http://en.wikipedia.org/wiki/VGA_connector
External Hard Drive: http://www.amazon.com/External-Hard-Drives-Storage-Add-Ons/b?ie=UTF8&node=595048

1. KEYBOARD SHORTCUTS

1.1 Video player

M: Play frame by frame. Press once to advance just one frame. Keep pressed to play the video continuously.

N: Rewind frame by frame. Press once to rewind just one frame. Keep pressed to rewind the video continuously.

B: Play at 3X speed. Press once to play.

V: Rewind at 3X speed. Press once to rewind.

Page Up: Go forward 5 seconds. Configurable time.

Page Down: Go backwards 5 seconds. Configurable time.

Spacebar: Play/pause video.

Shift + Enter: Full screen video playback.

Esc: Return to previous video player size from full screen. To switch between full screen and previous video player size, double click on the title bar of the respective window.

L: Continue the video after playing a record.

R: Replay the last register shown

1.2 Timeline

1: Play next register (action) in the selected category.

2: Play previous register (action) in the selected category.

3: Add selected register to a selected list from the presentation.

Control+3: Add selected register to a selected list from the presentation adding all the multiple angles from the analysis.

Insert: Add a selected register to the selected list from a presentation.

A: Go to the following category.

Q: Go to the previous category

Control+T: Hide/ show Timeline

> **Note**: whilst the Timeline is hidden, registers can be only viewed by categories and not in chronological order.

4, 5, 6, 7: Change between video angles

D: Make a drawing on the actual frame in the video player.

Ctrl + M: Make a new row by merging the selected rows.

Ctrl + C: Change the colour of the selected row.

º\ª: Full screen.

0 (Zero): Set an standard layout for the Timeline and Video player

E: Go to the end of the register.

+: Zoom-in in the timeline

-: Zoom-out in the timeline

Right click when closing: Close timeline and go to My Analysis

Right click when opening a presentation: Open the last presentation

Right click when opening a dashboard: Open the last dashboard.

Right click when opening a datamatrix: Directly open the Full matrix.

Ctrl+mouse wheel: zoom in/zoom out timeline

Click+mouse wheel: vertical scroll.

From presentations:

M: Merge selected lists.

D: Duplicate selected lists.

C: Change the colour of the selected register/list.

N: Make a new list

X: show/hide list

S: Select all the visible registers

Shift+S: Select all the registers

F: Change the font colour from black to white or vice versa

E: Go to the end of the register.

F5: Refresh list's information.

Shift+3:Make a new list with the selected registers

Ctrl+C: Copy the selected registers

CtrL+V: Paste the selected registers

Alt + S: Make a copy of the selected presentation.

Alt + M: Merge all the open presentations in a new one

Ctrl+ ➕ : Make a new presentation

From show presentations:

E: Enable/disable edition mode.

T: Show/hide text

S: Slow motion

1.3 General shortcuts

Shift + P: Show all opened windows. If you close **Nacsport Viewer** with one or several windows on a secondary monitor or projector, those windows will not be shown if you open the program again without connecting the secondary monitor or projector. This combination of keys fixes this problem.

Alt+I: Sets the START for the selected register to the current video position and go to the next register

Alt+O: Sets the END for the selected register to the current video position and go to the next register

1.4 Main menu

ESC: Closet he program.

Ctrl + P: Open video player.

Ctrl + O: Open options.

Ctrl + B: Open an external .nac.

M: Open My Analysis.

P: Open Presentations.

L: Open the last analysis used in Timeline.

Ctrl + U: Check updates.

Ctrl + L: Open the registration and activation of your license.

F12: Remote support.

F1: User Manual.

F2: Video helps.

F3: open web page.

Shift + P: Open the last used presentation.

Right click on presentations: show the last 10 presentations

2. PRESENTATIONS

With this tool you can see any presentation you have imported to Nacsport Viewer.

2.1 Show a presentation

To show a presentation, go to **Presentation** on the main menu and then select the presentation you want to show.

In this window, the presentation that you choosed will be shown.
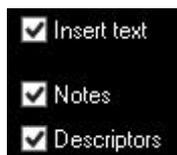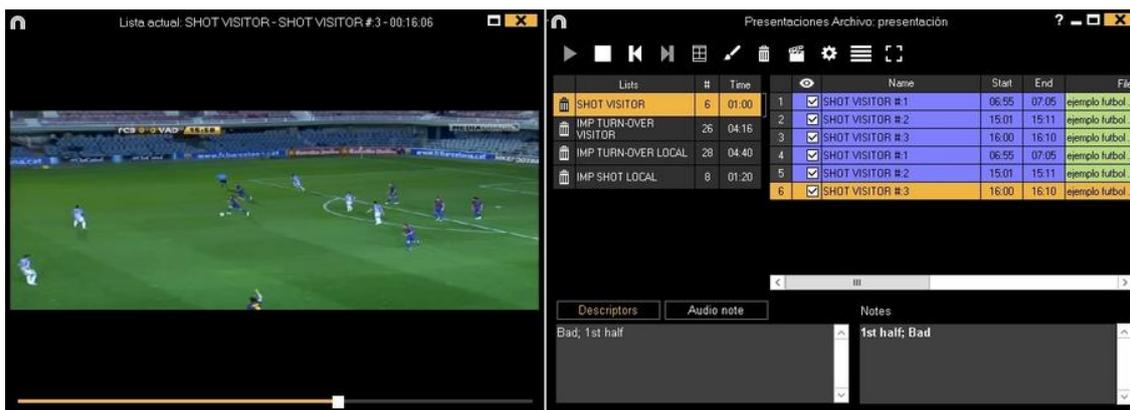
To show notes and descriptors of a presentation, click ![Insert text / Notes / Descriptors].

To reproduce a register after another with stopping the video, click ![Continuous reproduction].
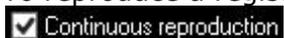
You can show the previous or next register by clicking ![icons] or by pressing keys **1** and **2**.

To show the video on full screen, click ![icon].

By default, video will stop when it shows a picture/drawing so you must to click on the video to continue the playback. To use the selected stop time (5 seconds by default) click ![Continuous reproduction].

2.2 Import a presentation

1- Go to **My documents** folder.

2- Open **NAC SPORT DATA** folder.

3- Open **Pres** folder.

4- Paste .pre files you want in this folder.

3. TIMELINE

This environment contains all the registered action shown by categories (rows) in an intuitive Timeline in which you can modify you register, change its duration. To access the Timeline go to Nacsport databases and select the database you want to open.

3.1 Timeline icons

Show and hide all records (actions) in selected category.

Show the window to compare selected actions (8 maximum).

Open an already created database in the current Timeline.

Open the window which shows all categories and descriptors (Data Matrix).

Show the first frame of each category and all the drawings.

Open the actions searcher.

Timeline options.

Open exportation options.

3.2 Timeline tools

3.2.1 Show/hide register list

This tool shows/hides the list of registers the Timeline contains in a clear and easy way.
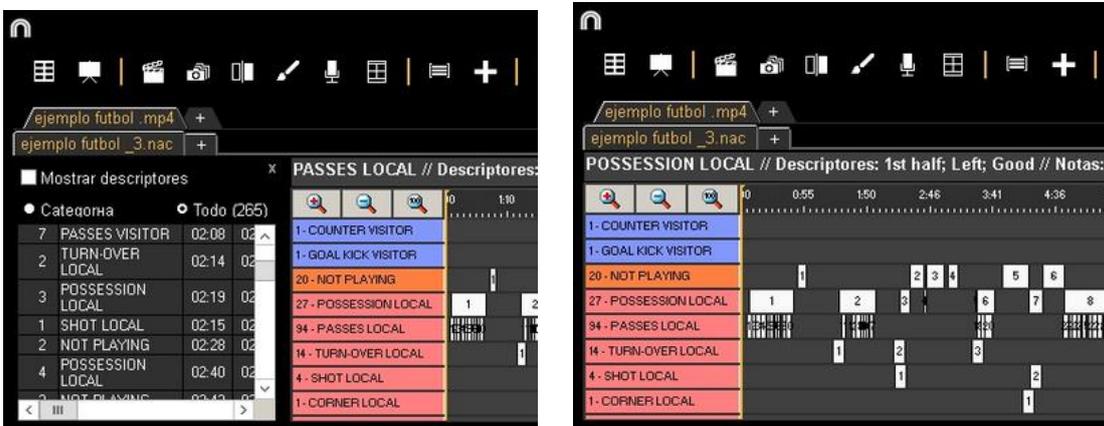
Registers can be shown by categories or chronological order.
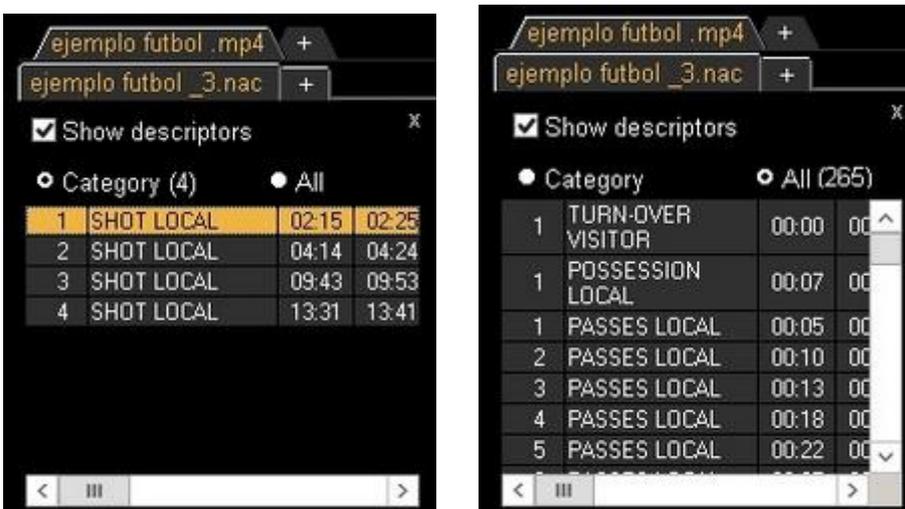
3.2.2 Compare actions

 With this tool you can compare up to 8 different videos (registers).

1- To compare registers just select them in the grid on the left of Timeline by keeping pressed Control key and clicking ▯▯.
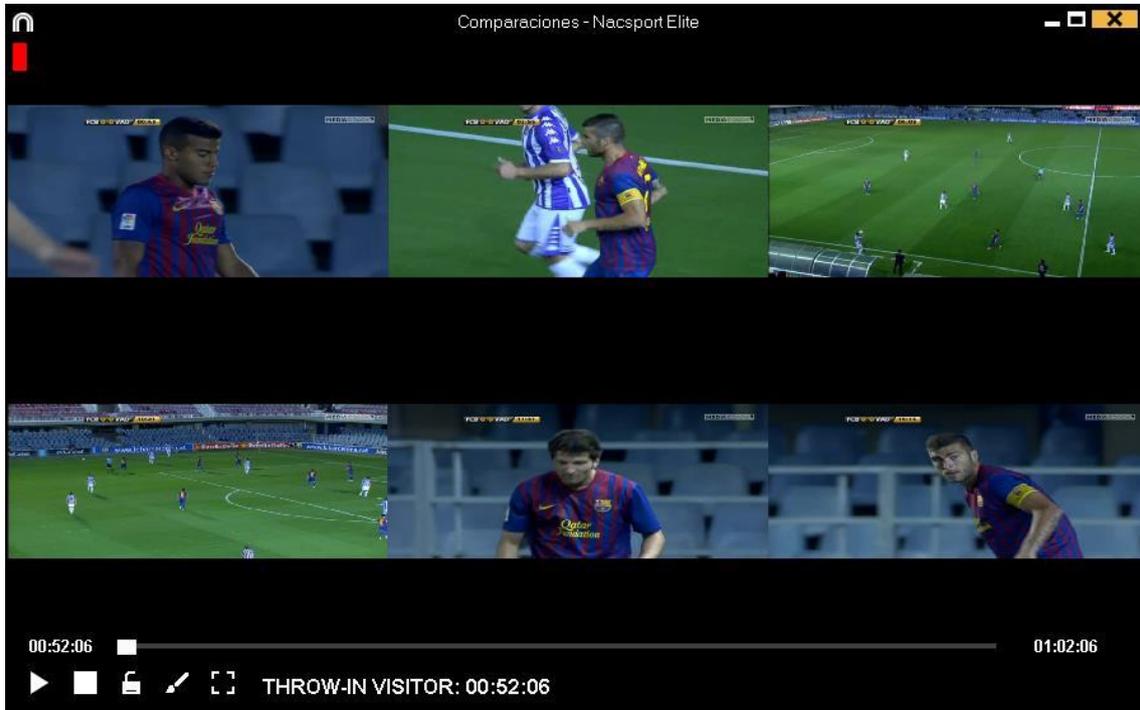
To synchronize the beginning of one of the videos, click ▶ until the moment you desire. Then, repeat the process with other videos.

To play all the videos at the same time, click ⏏ and ▶.

To see the videos on full screen, click ⛶.

To compare an action from the timeline with an external video click on 🎥 Clicking on a new action will show it in the comparison tool. The external video will never change.

To compare two actions by overlapping them instead of having one next to the other. click on ▨ Clicking on 🎬 from the comparison window you can make a video showing the overlapped actions. The exported video will not contain any drawing.

> **Note:** You can only use the overlapping to compare a maximum of two videos

3.2.3 Open a database in the Timeline

With this tool you can work with as many databases as you want in a single timeline. This allows to make presentations and videos of several events.

To add a database, click ➕.

Select a database. Double click it and click **Go to the Timeline**, or select several databases and click

To change from a database to another one, click the tab you want.

3.2.4 Data matrix

In this window you can see in a clear and quick way all the categories and descriptors. You can consult numerically all the actions registered and see them immediately.

To access to the data matrix, click ▦.

To make a multiple data matrix, you have to have a second database opened in the Timeline

Click on ▦ and choose the databases you want to see in the matrix

Click ✔

Simple data matrix: Multiple data matrix:

Customized Matrix

To make a customized matrix click on ⊞ and select "customized matrix" option.
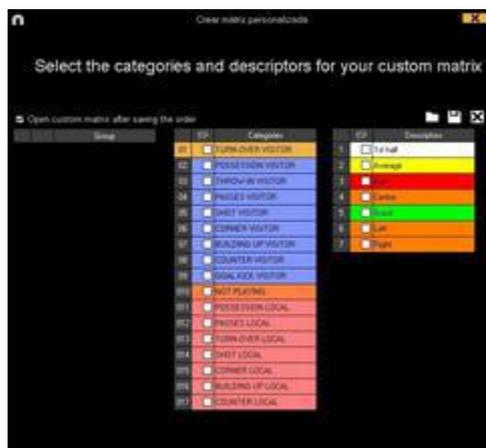
Choose the categories and descriptors you want to show at the matrix.

You can also make groups of categories or descriptors by selecting several elements at once (keep the Ctrl key pressed), right button click and select "make a new group" option.

You can save the customized matrix clicking on ⊟.

To open an already made customized matrix you can select the proper option on the box at the left of an opened matrix or clicking on ⊞

You also have a list with the 10 latest used customized matrix which you will find by clicking on ⊞ or in the box at the left of an opened matrix

To add the registers to a presentation click on ◩ and select the option you want.

> **Note:** You cannot add register in case you are using a multiple matrix.

Combination of descriptors in the data matrix

With this tool you can filter your actions by using a combination of several descriptors from your data matrix. This will allow you to filter you actions in a much deeper way.

To do so, open a data matrix and click on ⊚

Now keep pressing the Alt key and click on the descriptors you want to combine

From the upper box you can select the relation between the descriptors by clicking on the button between the descriptors

The possible relations are:

AND: Both descriptors are in the same action at the same time.
NOT: The descriptors are not in the same action at the same time
OR: The action contains one of the descriptors, the other or both descriptors at the same time.

Example:

To get all the good actions in which Player 1 and Player 2 where together:

To get all the good actions from the 1st quarter in which Player 1 wasn't playing:

To get all the good actions by player 1 during the 1st quarter and all the good actions by player 1 during the 2nd quarter:

This option excludes the actions happened during the 3rd and 4th quarters

Clicking on you will make a new descriptor that will be added to all the actions which agree to the combination criteria you selected. This new descriptor will be shown as the last descriptor in the matrix

You can set an specific name for the new descriptor from the "Nickname" box.

To save the combination criteria, click on and set the a name for the file. You can open any saved criteria by clicking on

To delete the set criteria click on

3.2.5 Timeline options

Zoom : you can maximise or minimise the Timeline. To show the entire Timeline, click .

Change the start or end of a record: position the cursor on the left (start) or right (end) of the record and when it changes to . Left   click and drag it in one of the two possible directions.

Temporary displacement of record (without affecting its length):place the cursor in the centre of the record and when it changes to . Left click and drag it in one of the two possible directions.

Order the Timeline: Right button click on any category and choose "Order the Timeline by...". You can order the Timeline by colour, name, number of registers o customized.

Show/hide a category: Select the category you want and click the **Hide category** or **Show category** option.

Make a new category with the selected registers: To make a new category containing the selected registers click on from the registers grid to see all the registers in chronological order. Select the registers you want click on and then on "make a new category with selected registers" option

Overlay information on the video (notes and descriptors): To show text directly over the video right button click on the video window and select "overlay text in video". Now select the options you want.
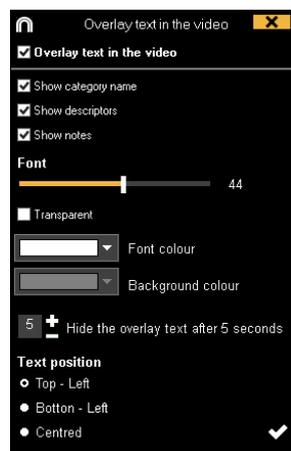
Note: The final videos will NOT have overlay text

Merge rows in timeline: To merge two rows in timeline select both rows keeping the Ctrl key pressed. Right mouse click and select "Merge rows"..This will make a new row containing all the registers from the previously selected rows

Colour filter in timeline: From timeline you can filter your categories by colour showing just those with a specific colour. To do so click on the colour you want to hide in the box you will find over the categories names. To show a hidden colour click on it again.

Not filtered:
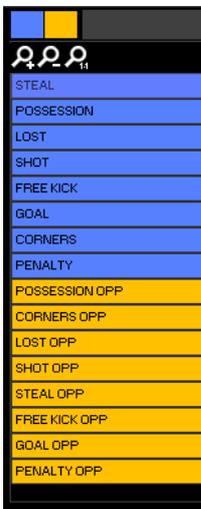
Filtered:

Hidden categories will not be shown in the data matrix

Continuous playback of a category: You can watch all the registers of a category in a continues playback by clicking on

Timeline colour options: From the Timeline options menu you can choose any of the 6 styles.

3.2.6 Actions searcher

In this window users will be able to search any action. An example of a search might be: "I want to see all the Spanish faults from the right wing shot by Xavi in the second half".

The search can be done from one only match or whole season, without limits.

To access to actions searcher, click .
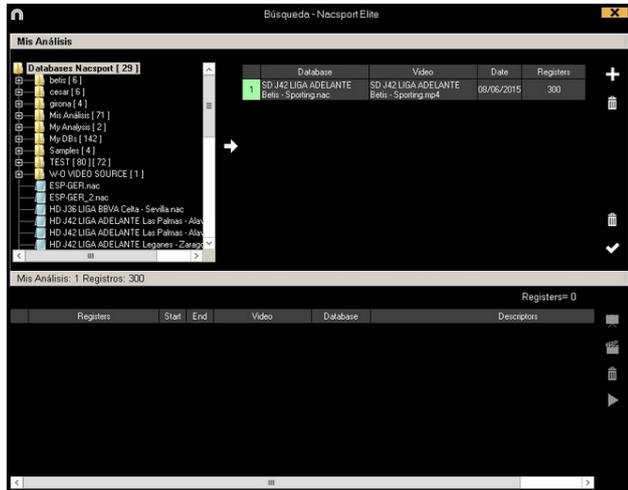
Select database you want to search in and click . Then, click to start searching actions.

Users will be able to search actions in categories or descriptors by selecting

.
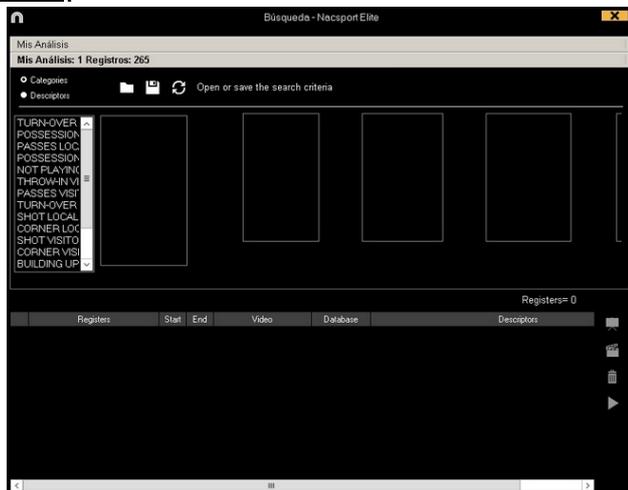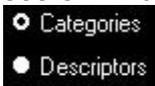
To see selected register, click .

The search can be done from one only match or whole season, without limits.

To add the registers to a presentation click on and select the option you want.

> **Note:** You cannot add register in case you are using a multiple search.

3.2.7 Export

With this tool you can export you database in some different ways:

- As .XLS file showing the registers in chronological order.

- As .XLS file showing the percentage of categories.

- As . XML file in order to work with other programs.

- As .XLS file.

To export, click and select desired option

.
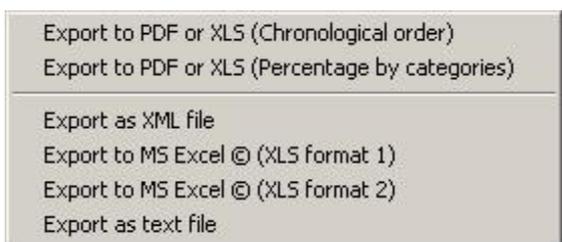
You can export just the categories you select when making an .XML file to do so just click the .xml export option you want and then select the categories you want in the window.

You can export a .csv file showing the click time reference of the every register. This will allow you to link the registers with the data provided by a gps device.

To do so click on and select Export .csv - System clock

Exported file

```
'11:05:28','11:05:28','11:05:45','ATTACK','Mid press,Ends as a possession change'
'11:05:42','11:05:47','11:06:02','LOST','Steal'
'11:05:48','11:05:51','11:06:07','DEFENSE','Mid press,Ends as a shot'
```

Notes: The time shown corresponds to the time on the PC at the moment the register was done.

3.2.8 Dashboards
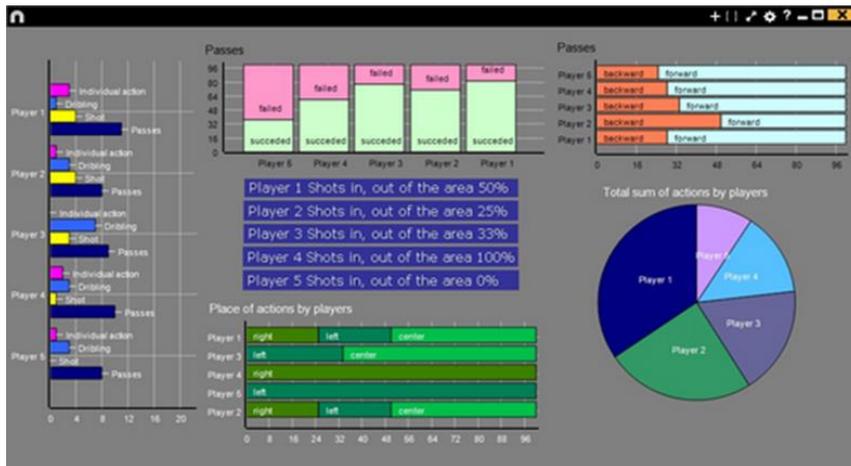
The dashboards will allow you to see a graphical representation of the actions happened in the event, making easier to understand what happened during the event.

To work with dashboards first you have to import one. To do so click on [icon] to open the dashboards environment and then click on [icon] to look for the .dashboard file you want to import.

To open a dashboard click on [icon] ,choose the dashboard you want to open and click on [icon]. To open several dashboards at the same time, select all of them and click on [icon].

To see a list containing all the actions of any of the elements in the dashboard click on the element (chart, label). To add the registers to a presentation click on [icon] and select the option you want.

Note: You cannot add register in case you are using a multiple dashboard.

Multiple dashboards from Timeline

Having several databases opened in the Timeline you can do a multiple dashboard containing information of all those databases

To do so click on [icon]. If you want to add another analysis you can do it by clicking on [icon], selecting the analysis you want, clicking on [icon] and finally on [icon],

You can hide one or more analysis when having a multiple dashboard. To do so uncheck the analysis you want and click on ⟳

You will also be able to open a multiple dashboard directly from My analysis environment choosing the analyses you want and clicking on ⊞

Variable label.

With this option you can use a label which will modify a variable involved in any chart or data label in your dashboard

To change the variable click on the Variable label and select the one you want, this way all the labels or charts with the original variable will change into the selected one.
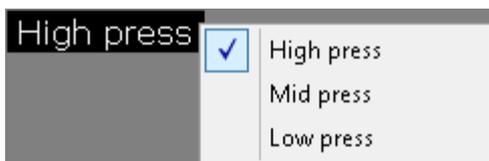
Reorder the preview.

When openning a dashboard from multiple databases and clicking on any bar, section or label you can select the order in which the registers will be shown.

To change the order in which the registers are shown click on ☐ Order by anlysis name (.nac). Now the registers will be shown in chronological order by analysis.

Chronological order: By analysis order:

Resize dashboard content.

With this option you can modify the size of the dashboard window and all the objects in it.

To do so click on and change the size of the window.

Now all the object keep the same size ratio they had before.

Regular resize: Window+content resize:
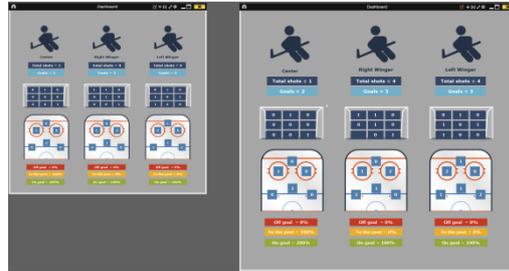
3.2.9 Presentations

With this tool you can make a list with registers in order to create a presentation and then show them.

5.2.2.1 To make a presentation

To make a presentation, click from the Timeline and then **Make a new presentation.**

Make a new list by clicking . You can change the name of the list by double clicking it.

Select register you want and press the key number **3** to add them to the list.

You can select registers on the left of Timeline.

To delete a list click .

To edit registers from the presentation:

To edit a register from the presentation, double click it or click ⊞.

In this window, you can add notes, pictures and drawings. You can also change the duration of the register.

To change the length of a register, click on the start/end of a register and when the icon ⬅➡ turns up, just drag the register to the moment that you want.
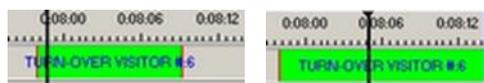
To add a drawing, click 🖌 at the moment of the video you want to It will be saved in your database so it will be shown in the presentation.

To change the font, color and background of a text click on ⒶΧ

To add a reference grid in order to make a draw click on ⊞

With these options, you can modify an already added drawing.

You can add a note by typing what you want on the proper text box.

To go to the next register, click ⏭.

To add the register to another list click on ☰.Now you can make new lists by clicking on ➕To add the actual register to another list, select the list you want and click on ✔ You can also add register to another list by double clicking on the box showing the amount of registers in a list.

Multiple tabs for presentations

With this option you can work with several presentations at the same time, being able to combine them.

To do so, click on ➕ on the upper left corner of the window. Noe select another presentation to open.

The changes made in one of the presentations will not affect the rest.

Pressing Alt + S will make a copy of the selected presentation

To make a new presentation with the content of all the opened presentations, press Alt + M

Pressing Ctrl + ➕ will make a new presentation.

You can change a presentation by double clicking on its tab.

You can copy a list from a presentation and paste it in another presentation

Export presentations

To share you presentation click on ⬚ and select a name and path to save you presentation.

To show a presentation

To show a presentation click on ▶
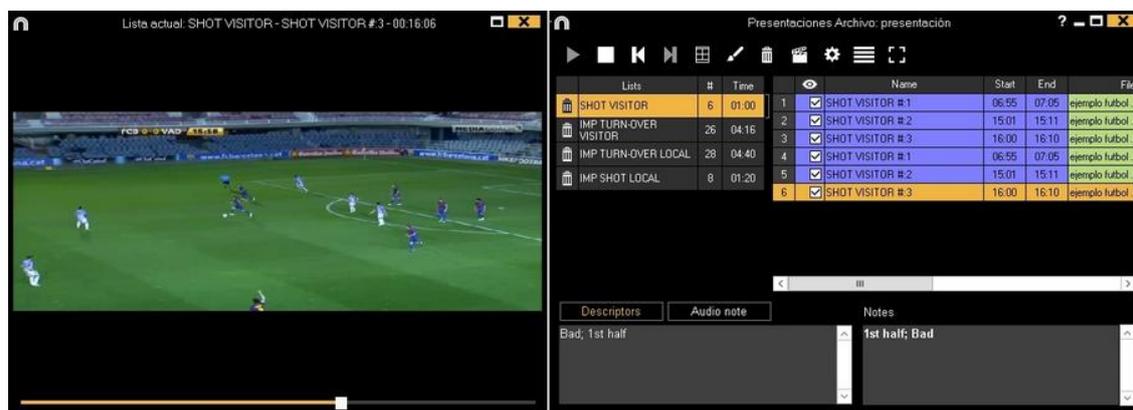
To see the presentation settings click on

To show notes and descriptors of a presentation, click .

To show text directly over the video right button click on the video window and select "overlay text in video". Now select the options you want.
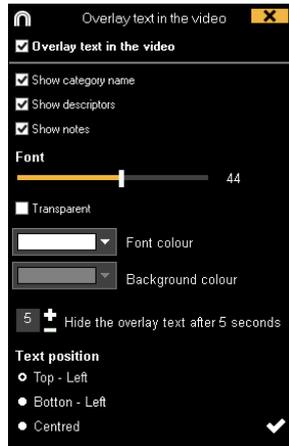
> **Note:** The final videos will NOT have overlay text.

To reproduce a register after another with stopping the video, click .
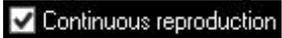
You can show the previous or next register by clicking   or by pressing keys **1** and **2**.

To show the video on full screen, click .

To play the video on slow motion click on and select the speed you want

By default, video will stop when it shows a picture/drawing so you must to click on the video to continue the playback. To use the selected stop time (5 seconds by default) click .

Remote control for presentations.

To link your presentation with the iOS app Nacsport Remote Control click on

and insert the PIN code in your phone or tablet. Click on to link the devices. Now you can control the presentations playback remotely by using the controls showed in your phone or tablet screen.
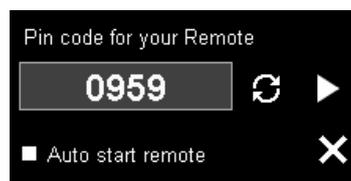
Clicking on you will generate a new PIN code

Dashboards from presentations.

Now you can open a dashboard based on the registers in a list from a presentation.

To do so select the list you wan and click on from the presentation window. You can also open a dashboard while showing the presentation.

3.2.10 Link different videos from the same event

With this tool you can link up to 4 different videos from different angles of an event. To do this click on and select the option **link video angle**
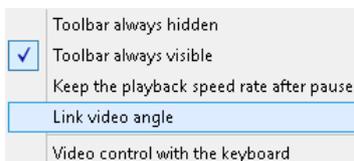
Then select the tab where you want to add the video and click on
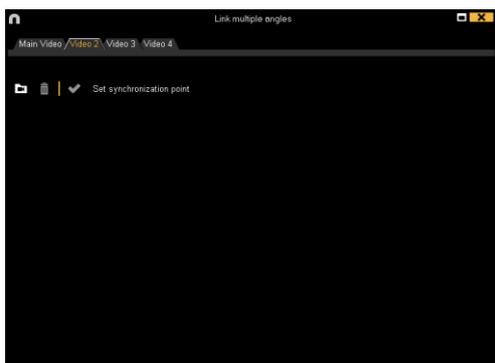
Select the video you want to and synchronize it with the original using the time scroll if necessary. Once finished click on and you will see the different videos at the same time

To change views between the different videos and mosaic (4 videos at the same time) select the view you want by clicking on

Now you can make a video with any view you are showing at the moment of the production of the video (any single video o al of them at the same time)

To do reorder the additional videos keep the Ctrl key pressed and drag the video to the position you want when showing the mosaic view.

3.2.11 Category frequency chart

With this tool you can see a graphical representation of the amount of actions by category happened during an event, and even compare them.

To do so, click on [icon], select the categories you want to add to the chart and then on [icon]
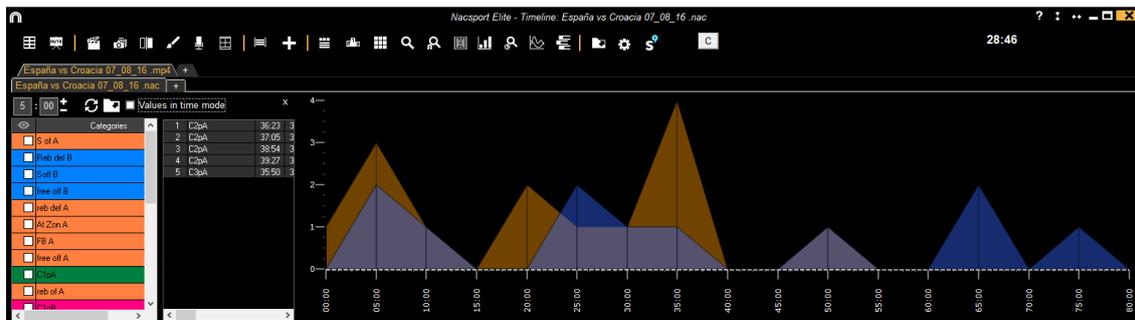
By clicking on any of the areas in the chart you will see the actions happened at that moment.

You can modify the time interval by setting the want you want on [icon]

You can show value my duration of the action in an interval by clicking on [✓ Values in time mode]

4. MY ANALYSIS

In this environment you can consult all the databases created or imported by the user.

To access to timeline double click the name of any green database you want.

If the databases is shown in red colour, this means that there is no video linked to that database due it is in a different place, it was deleted or it has another name. If the video was not deleted, you can link it with by double clicking the name of the database a looking for the video.

You can also:

Make subfolders: Click any folder and then click ✚ .

Delete folders (and the databases in it) or delete databases: Click any folder (or database) and then click 🗑 .

Assign a favorite folder: Click any folder you want and then click ✔ .

Choose folders' path: Click ⚙ and then select the path.

Open several databases at the same time: Choose the databases you want and click **open selected databases** these databases will be opened at once in the Timeline

Open databases folder: Click 📁 icon.

Auto-link videos : With this option you can quickly link videos to your analysis in case you moved them to any other folder.

To do so right click on any analysis with a non linked video. Select the "auto-link" option and search the folder where the video is. The software will automatically search for any coincidence in that folder an it will link the videos to their corresponding analysis

Note: This option will look in to the path folder by folder. This means that in case of searching in the whole unit C: the software will look in the whole hard drive (this process can take a long time)

Quickly search for an analysis: With this option you can quickly search and specific analysis by its name, video or creation date. If you want to search an analysis depending exclusively on its name, ignoring the video name, file path and anaylisis date click on ☐ Only in .nac path.

Access a folder in a server: With this option you can save your analysis in a shared folder for your whole organization. To see the folders in the server click on ⚙ Server

Refresh the analyses list: Click on 🔄

Export Excel/xml: With this option you will make a new file for each selected analysis. Select the analyses you want, click on ⬆ and select the option you want.

5 Import/Export .XML Files

* To **import a .XML folder**:

a) At the main menu of the program, click on **Tools.**

b) Select **Import.**

c) Select **Import .XML of Gamebraker and SportsCode.**

d) Click ⬜.

e) Look for the .XML files and open them.

> After selecting the file you want to import a new window will show, allowing you to select what categories and descriptors will be imported.
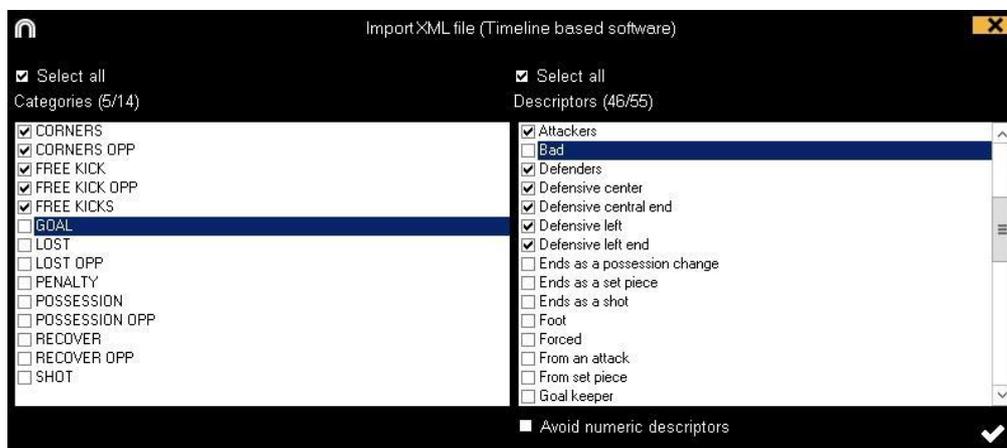
Clicking on ☑ Avoid numeric descriptors you will automatically deselect all the descriptors containing just numeric values. This means the descriptor name does not contain any letter, though it can contain symbols such as :, -, .,

f) Select name and destination for the **.NAC Database** and click on **Save.**

g) In the section 3, click ⬜.

h) Select the video which you want to link with the **.NAC Database** and double click it.

i) Click on **Open the Timeline.**

* To **export a .XML folder**:

a) Once the Timeline is opened with the folder to export, click ⬜.

b) Select **Export .XML.**

c) Select name and destination. Then, click **Save.**

Import .XML from InStat

To **import a .XML file from InStat**:

At the main menu of the program, click on **Tools** and select **Import**, then Select **Import .XML from Instat**

On the window click and look for the .XML files you want to import. Select name and destination for the **.NAC Database** and click on **Save.**

Click on and select the video which you want to link with the **.NAC Database** and double click it..

Finally click on **Open the Timeline.**

6. ANNEX

6.1 Import and export Nacsport databases

Import and export Nacsport databases is as easy as copy the database you want and paste it in another PC.

Export:

You can use 2 different methods:

1.- **From My documents folder**

>   1-Go to **My documents** folder.
>
>   2- Open **NAC SPORT DATA** folder
>
>   3- Open **Databases Nac** folder
>
>   4- Copy the .NAC files you want from this folder

2.- **From Nacsport databases**

>   1- From Nacsport main menu click **Nacsport databases.**
>
>   2- Select the database you want to export.
>
>   3- Right click the database and click **Copy**.

Import:

 You can use 2 different methods:

1.- **From My documents folder**

>   1- Go to **My documents** folder.
>
>   2- Open **NAC SPORT DATA** folder.
>
>   3- Open **Databases Nac** folder.
>
>   4- Paste .NAC files you want from this folder.

2.- **From Nacsport databases**

>   1- From Nacsport main menu, click **Nacsport databases.**
>
>   2- Right click any folder and click **Paste to import** an already copied file.

6.2 General options

6.2.1 Show video player time

Now you can choose between 4 different ways to show the video player time. To do so go to the option menu by clicking on the tools tab on the software's main menu. Click on the "video player" tab and select the option you want.

6.2.2 Add angles as separate videos/mosaic.

Having an analysis with multiple angles you can choose between using the 3 key to add every single angle or to add all angles as a mosaic.

To do so, go to main menu, tools tab and then to options. Once there click on

 and select the option you want.
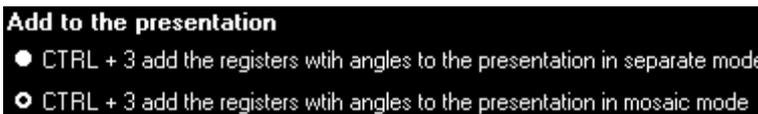
6.2.3 Check the server status.

With this option you can quickly check the status of the server where your databases are.

To do so, click on "options" in the "Tools" tab from the main menu. Now click on "Storage folders".

Click on and type the IP address of the server. Now click on "check conection"

From now on every time you Access the server from "My analysis" there will be a server status check. In case there is no connection to the server an error message will appear:

6.2.4 Jump between categories and keep the video position.

With this option the videos shown in the Timeline will not change when moving between categories, this will allow you to find a new register from a different category without losing the image you are showing. Once you click on a register you will see it.

To do this, from Nacsport's main menu click on "Tools" and then on "Options" Click on the "Timeline" Tab and select ☑ Jump between categories keeps video position

nacsport

quality information, better decisions