



Horus Position Fixer

Update positions of the video from a postprocessed gps position file



Summary

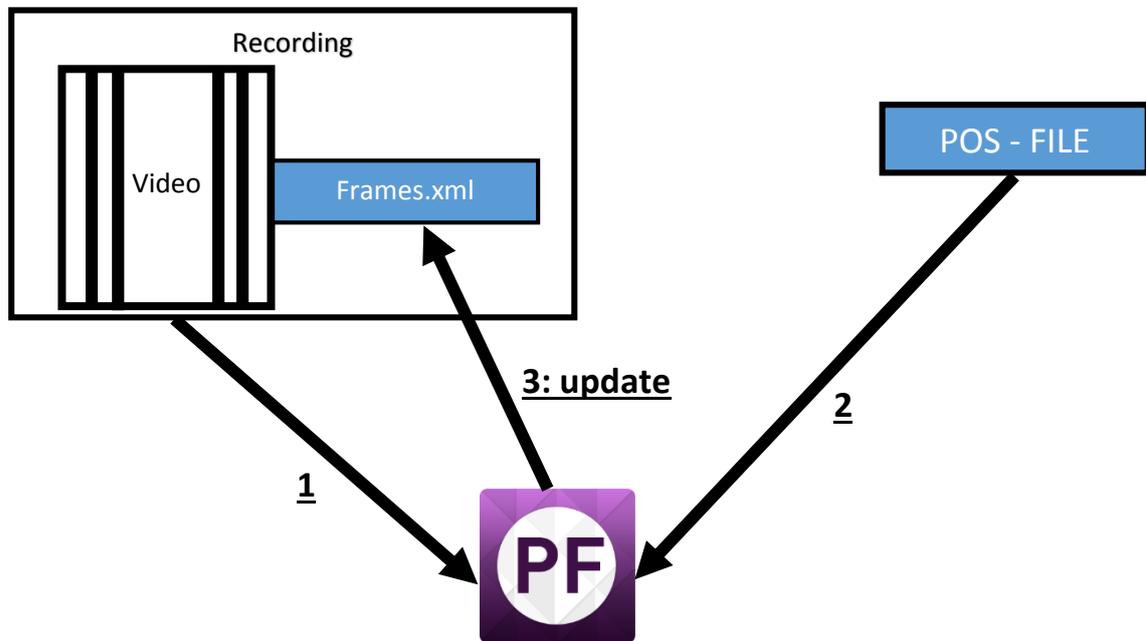
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1. General information

The position fixer is used to update positions of the video from a postprocessed gps position file.

The schematic overview will give a view how the position fixer works.



The Horus video file has got a frames.xml inside the folder once opened. If not already generated the PF will generate one.

When you open the position fixer you can set your video and your POS file. Both combined will update the frames.xml



2. Installation

The latest version of the Horus Position Fixer is available on request. Please mail support@horus.nu for more information. You can start the installation of the Horus Movie Player by double-clicking on the installation package icon:



Fig. 1- Installation package icon

This will start the setup wizard, click *Next* to start the installation procedure:



Fig. 2- Start screen of the installation wizard

Before installation just must have read the software license agreement, after accepting the terms in the agreement, check the box and press *Next* to proceed:



Fig. 3- License agreement

After that, you must select the location where the Horus Movie Player should be installed. Click *Next* after you have selected the desired installation location:

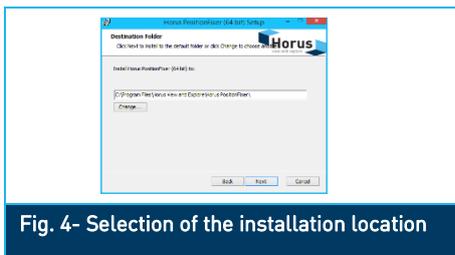


Fig. 4- Selection of the installation location

The installation wizard needs a final approval before it can install the Horus Movie Player. Click *Install* to start the installation:

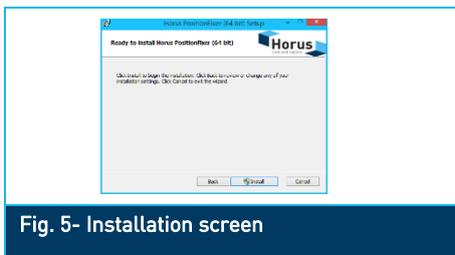


Fig. 5- Installation screen

The progress of the installation is shown by a progress bar. If there is another popup press *Yes*.

After the installation is finished, click *Finish*.



3. Starting the Position Fixer

The Horus Movie Player is started by double-clicking the icon on the desktop:



Fig. 6- Desktop icon

The program will open :

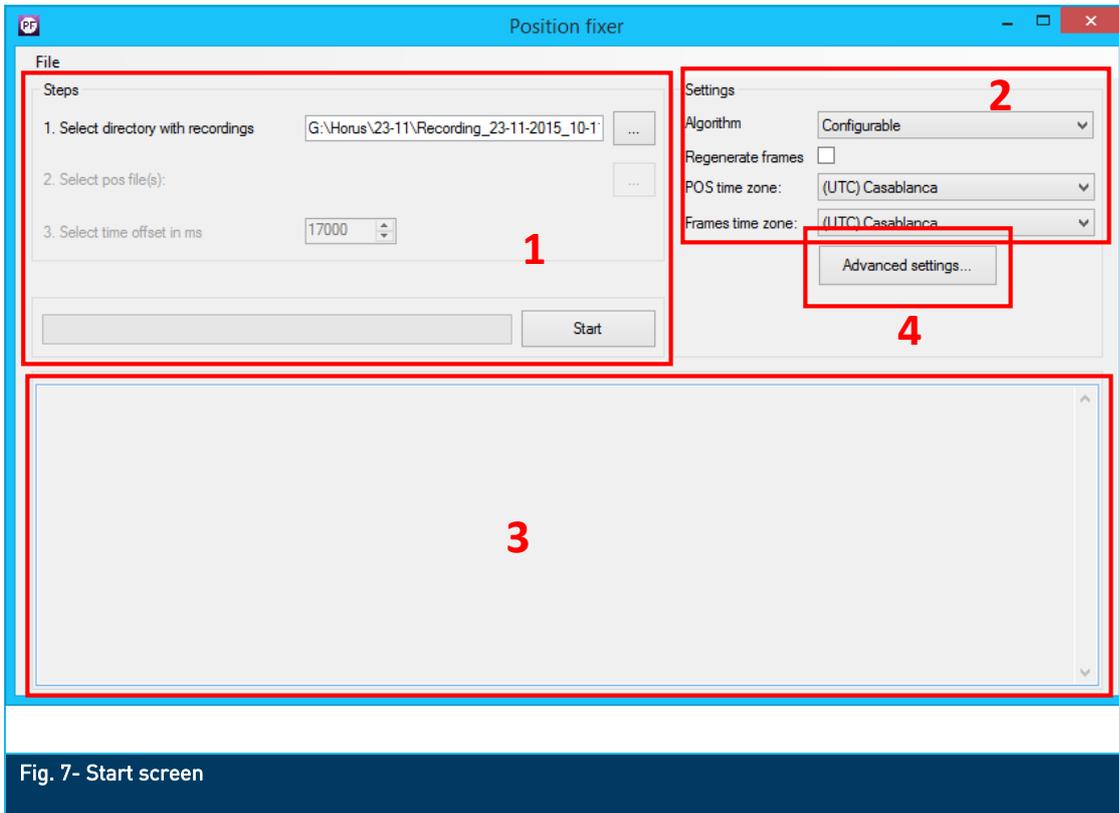


Fig. 7- Start screen



4. Screens

After the program has started, you can see different parts fitting the screen:

Screen 1: Steps

The first screen is where you select the recording(s) and pos file(s)

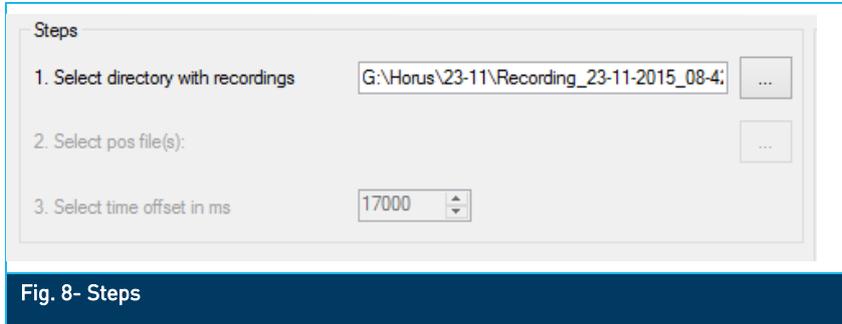


Fig. 8- Steps

- Step 1: Select directory with recordings. Here you can set the directory where all your recordings are stored. It will automatically find all the recordings within folders and subfolders.
- Step 2: Select POS file. Here you select the Position file which you have created for example in Applanix PosPac MMS.
- Step 3: If the time of your POS file is set with or without the time-offset you could set it here. If you are using EVT1 as a setting the offset won't be taken in processing. For more information about time offsets you could find it here: <https://confluence.qps.nl/display/KBE/UTC+to+GPS+Time+Correction>





Screen 2: Settings

The second screen is for the settings. These settings are needed to let the software know which algorithm it needs to use.

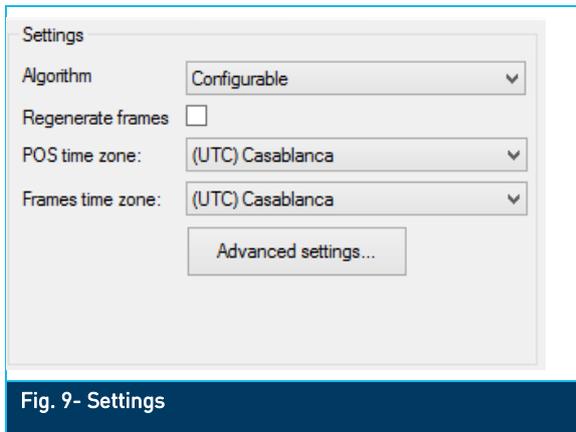


Fig. 9- Settings

- At Algorithm you define which algorithm you want to use. There are several options possible. For Applanix processing in Horus format you need to use EVT1. If using a configurable algorithm the button advanced settings will be active. Next caption will tell more about that. In the example that we now going to use we take the EVT1 as algorithm.
- Regenerate Frames: This checkbox will regenerate the Frames.xml if there is already a frames.xml inside the recording folder. Unchecked will only update the actual positions.
- When working in different time zones you could define the POS and frames time zone.

Screen 3: Progress bar + overview

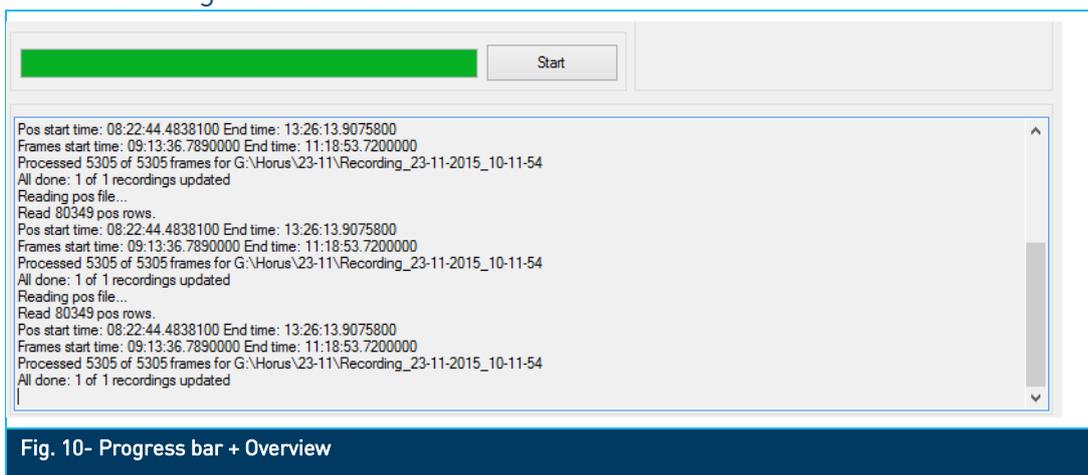


Fig. 10- Progress bar + Overview

- If all the settings have been set you could start by pressing the “Start” button
- The green progress bar will tell how far the whole processing is.
- In the screen under the progress bar there is more information about the processing. You could see here how many frames have been processed but also if everything has been updated.
- When this step has finished the recordings have the updated positions.



Screen 4: Advanced settings

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---------------|--------------|---------------|--------|--------------|---------------|---------------|
| ▶ | 8:22:44.48381 | 6.2170316933 | 52.1620055116 | 55.644 | 2.2958408733 | -0.3002063128 | 51.9536615164 |
| | 8:22:44.67865 | 6.2170086904 | 52.1619944232 | 55.649 | 2.2350255551 | -0.3091111278 | 51.8346816919 |
| | 8:22:44.87359 | 6.2169857268 | 52.1619833042 | 55.654 | 2.2415794986 | -0.3202770720 | 51.7121024240 |
| | 8:22:45.06859 | 6.2169628205 | 52.1619721406 | 55.661 | 2.2219056721 | -0.3414186879 | 51.5775730256 |
| | 8:22:45.26377 | 6.2169399569 | 52.1619609439 | 55.663 | 2.1690862354 | -0.3202025582 | 51.4332760484 |
| | 8:22:45.45900 | 6.2169171448 | 52.1619497075 | 55.670 | 2.1764234023 | -0.3280623815 | 51.2803498378 |
| | 8:22:45.65432 | 6.2168943889 | 52.1619384282 | 55.676 | 2.1768711572 | -0.3354833115 | 51.1187340315 |
| | 8:22:45.84977 | 6.2168716704 | 52.1619271203 | 55.681 | 2.2064259357 | -0.3428605560 | 50.9660005449 |
| | 8:22:46.04531 | 6.2168489950 | 52.1619157798 | 55.690 | 2.1736572388 | -0.3654223150 | 50.8248072909 |
| | 8:22:46.24099 | 6.2168263614 | 52.1619044077 | 55.695 | 2.1900514687 | -0.3650537884 | 50.6877548871 |
| | 8:22:46.43671 | 6.2168038201 | 52.1618929665 | 55.708 | 2.2180873243 | -0.4243523926 | 50.5015028657 |
| | 8:22:46.63267 | 6.2167813034 | 52.1618815071 | 55.712 | 2.2206434400 | -0.3984966172 | 50.3364369639 |
| | 8:22:46.82870 | 6.216758213 | 52.1618700220 | 55.725 | 2.2023682746 | -0.4315707783 | 50.2078220458 |
| | 8:22:47.02491 | 6.2167364112 | 52.1618584837 | 55.731 | 2.2714602555 | -0.4070038002 | 50.0417066365 |
| | 8:22:47.22122 | 6.2167140618 | 52.1618469011 | 55.743 | 2.2691318645 | -0.4442846547 | 49.8712945807 |
| | 8:22:47.41771 | 6.2166917400 | 52.1618352983 | 55.751 | 2.2643031987 | -0.4299300666 | 49.7214875365 |
| | 8:22:47.61437 | 6.2166694777 | 52.1618236524 | 55.760 | 2.2488115233 | -0.4262795145 | 49.5764601039 |
| | 8:22:47.81118 | 6.2166472811 | 52.1618119591 | 55.767 | 2.2954381540 | -0.4108572869 | 49.4048787432 |
| | 8:22:48.00818 | 6.2166250968 | 52.1618002571 | 55.776 | 2.2319937184 | -0.4082819572 | 49.2790773417 |
| | 8:22:48.20530 | 6.2166029679 | 52.1617885154 | 55.786 | 2.1593760959 | -0.4235749361 | 49.1568990812 |
| | 8:22:48.40260 | 6.2165809306 | 52.1617767087 | 55.796 | 2.2601684163 | -0.4362352488 | 48.9688163656 |
| | 8:22:48.60007 | 6.2165589148 | 52.1617648869 | 55.805 | 2.2247456148 | -0.4403775839 | 48.8143075187 |
| | 8:22:48.79773 | 6.2165369464 | 52.1617530318 | 55.817 | 2.1321913903 | -0.4546902850 | 48.6830807736 |
| | 8:22:48.99559 | 6.2165150571 | 52.1617411215 | 55.826 | 2.1893373860 | -0.4545250118 | 48.5098496688 |

Fig. 11- Advanced settings – Generic matching setup

- First set the File at the first part.
- Choose the delimiter (“white space”, “,” or “;”)
- Set the columns at the right part of your screen. The columns will correspond with the numbers on the screen
- At options you could set if you want to delete the unprocessed frames or if you want to regenerate the heading.
- If the frames NMEA time is different than the HHMMSS you could set it here. Also the Horus HRS10 is inside here.

Press OK to go back to the startup screen.