

Version 1.10.0

Advanced People Sensor

APS Video Player

Instructions for use



Instructions for use (original)

HAGL-120-00085

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Version 1.10.0
04.03.2019

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Supplemental directives

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Document history

Version	Modification
1.10.0	Creation of document

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1 Introduction

The Advanced People Sensor (APS) can store videos internally. To keep the video data manageable, APS-M videos have a maximum recording time of 60 minutes, and APS-RS videos are split into intervals having a 30 minutes maximum length. These are stored on the APS in an archive (tar-file) format which contains standard video information and configuration and sensing data.

With a standard video player, it is only possible to play back the video information.

The APS Video Player can also overlay specific configuration and sensing data over the video information, such as:

- Counting lines and results
- Zone monitoring info (only with APS retail variants)
- Object tracks
- Track info
- Range
- Floor area
- Obstructions

Having this configuration and sensing data available allows customer installations to be evaluated and counting errors to be analyzed.

In addition, it is possible to combine these configuration and sensing data overlays with the video information, and convert this into a standard video format (playable on a standard video player).

The APS Video Player version 1.10.0 is needed to play videos from the following APS variants:

- APS retail variants (APS-RS) with firmware 1.14
- APS public transport variants (APS-M) with firmware 1.7

The APS Video Player version 1.10.0 can also play videos from all lower firmware versions.

2 Installation

Requirements

- Windows 7 SP1 / Windows 8 / Windows 10 (64 bit versions only)
- At least 2 GB RAM
- Graphic resolution 1024 x 768, 16 bit
- At least 300 MB free disk space


To install the APS Video Player proceed as follows:

1. ➤ Download the installation file from ➔ www.people-sensing.com/downloads/
2. ➤ Start the installation by double-clicking the downloaded executable file.
3. ➤ You be ask: This will install APS Video Player 1.10.0. Do you wish to continue? Confirm with *<Yes>*.
 - ➔ The Setup Wizard starts.
4. ➤ Click *<Next>* for the next step.
5. ➤ The APS Video Player is installed by default in the folder: C:\Program Files\APSVideoPlayer1.10.0.

To change this folder click *<Browse>*.

To go to the next step click *<Next>*.
6. ➤ The settings for the installation are shown. To start the installation click *<Install>*.
 - ➔ Installation starts.
7. ➤ The APS Video Player has been installed on your computer. To exit the Setup Wizard click *<Finish>*.

3 Working with the APS Video Player

The easiest way to start the APS Video Player is to double-click the APS Video Player icon  on the desktop which has been placed on the desktop during installation. Alternatively select "Start Menu → All apps → APS Video Player 1.10.0 → Run APSVideoPlayer 1.10.0".

3.1 Work Screen

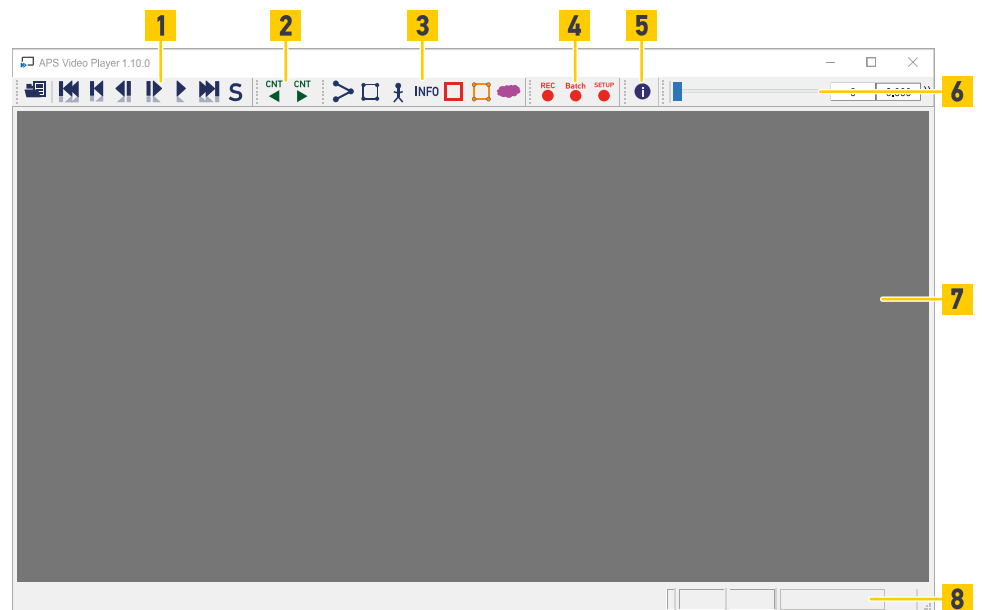


Fig. 1: Elements of the work screen

- | | | | |
|---|-----------------------|---|----------------------|
| 1 | Video control toolbar | 2 | Count event toolbar |
| 3 | Visualization toolbar | 4 | Video export toolbar |
| 5 | Info toolbar | 6 | Time slider toolbar |
| 7 | Video file area | 8 | Status bar |

Video control toolbar

Use the elements of the videocontrol toolbar to open and play APS videofiles.



Open a video file



Open the previous video file in the directory



Go to the start of the video (or *<home>*)



Step backwards (or *<shift> + <tab>*)



Step forwards (or *<tab>*)



Play/Pause the video (or *<space bar>*)



Open the next video file in the directory



Toggle player speed

Count event toolbar

Use the count event toolbar to go directly to the next or previous count event.



Jump to previous count event



Jump to next count event

Visualization toolbar

Use the visualization toolbar to show or hide counting lines, areas and tracking information. The available information is based on the configuration and licenses of the APS.



Show / hide counting lines and counting results



Show / hide zone monitoring areas and zone monitoring results



Show / hide tracks



Show / hide track information



Show / hide the monitoring range



Show / hide the configured floor area



Show / hide marked obstructions

Video export toolbar

Use the video export toolbar to convert the APS video file with all displayed information into standard video formats like avi or mp4.



Start/stop single video conversion (e.g. avi or mp4)




Convert all video files in a directory



Choose video file format for conversion

Info toolbar

Use the info button  to get information about the program, HELLA Aglaia and Open Source Licenses

Time slider toolbar

Use the time slider toolbar to move to any point in time of a video by either entering the specific frame, entering a specific time stamp or using the slider.


Video file area

See the video and counting information if selected.

Status bar

Get information about the toolbars and the number of files in the current directory.

3.2 Playing a video

1. To open an APS video file click the  button.
 - ➔ The file-open dialog opens to select a tar-file on the computer.
2. Select a tar-file and click open.
 - ➔ The video and counting information are displayed in the video file area (Fig. 1 /6).

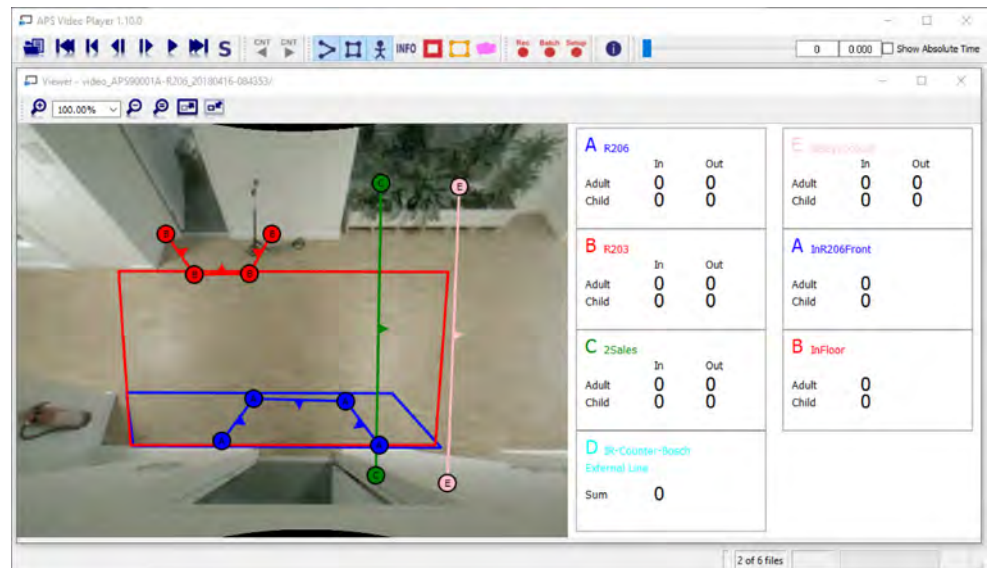








Fig. 2: Displaying APS video file

3. Click the  button to start the play back.
 - ➔ The button changes to .
4. Click the  button to jump to the next count event or the  button to jump to the previous count event. If the video is paused, use the  and  buttons to go step by step through the video.



Keyboard commands

Some of the buttons can also be operated using keyboard commands
(➔ List of keyboard commands on page 16).

3.3 Displaying additional information


When starting the video player and opening a video file, counting lines, monitored zones and tracks are displayed by default.



Licensed functions

Some of the information are licensed functions. They are only displayed if the function is available on the APS.

Working with the APS Video Player

Use  to show / hide counting lines and counting results.

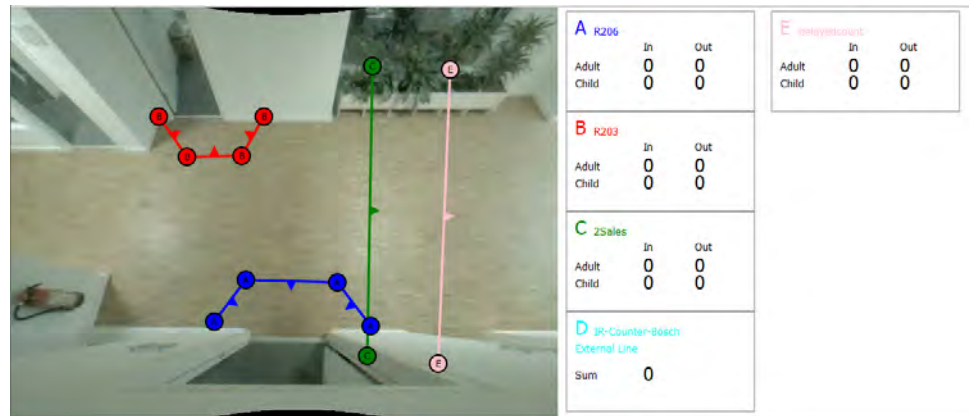


Fig. 3: Displaying counting lines and counting information

Use  to show / hide zone monitoring areas and zone monitoring results.



Only APS-RS variants

This additional information is only available with APS-RS variants.

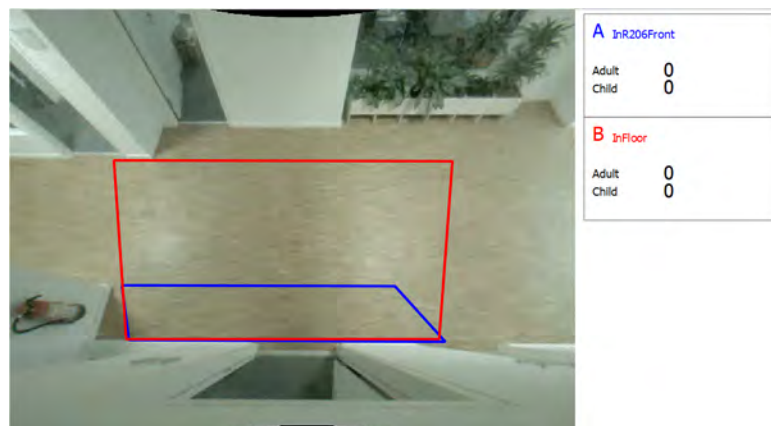



Fig. 4: Displaying zone monitoring areas and zone monitoring results

Use  to show / hide tracks.

Use  to show / hide track information.



Fig. 5: Displaying tracks and track information



Use  to show / hide the monitoring range.



Fig. 6: Displaying the monitoring range

Use  to show / hide the configured floor area.

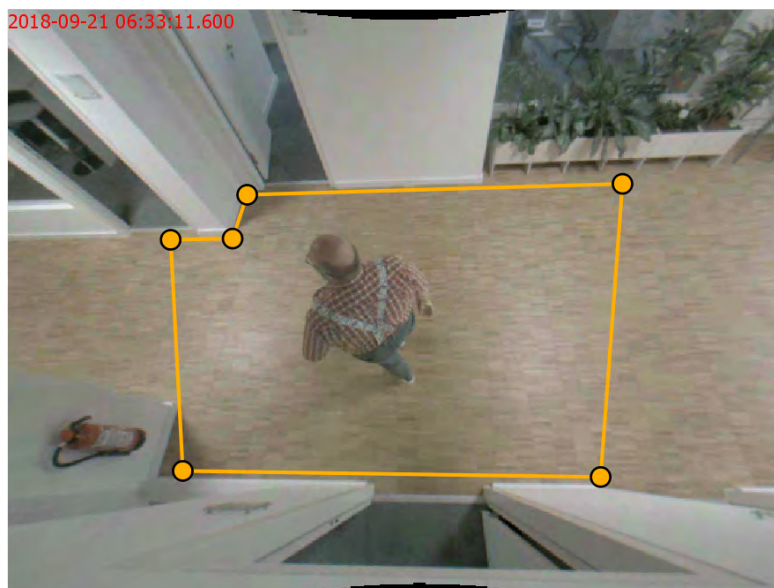


Fig. 7: Displaying the configured floor area


Use  to show / hide marked obstructions.



Fig. 8: Displaying marked obstructions

3.4 Converting videos


Converting a video means to combine the video data and the selected counting information as overlay into one video file, that can be played by a standard video player software.

There are 2 possibilities to convert:

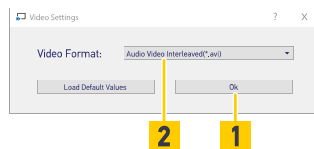
- Converting a single file.
- Converting all video files in a folder.

For both possibilities first open a file (➔ Chapter 3.2 Playing a video on page 10).

3.4.1 Setting a video format

1. ➔ To set the video format of the exported video click .

➔ The Video Settings window opens.



2. ➔ Select a video format from the list (Fig. 9 /1).

3. ➔ To confirm the selection click OK (Fig. 9 /2).

➔ The Video Settings window close.


Fig. 9: Video settings




Settings

The video export settings are not stored permanently.

3.4.2 Convert single files

1. ➔ To convert a single file switch on .

2. ➔ Switch on all additional information you want to display in the converted video (➔ Chapter 3.3 Displaying additional information on page 10).

3. ➔ To start the conversion click .


4. ➔ To stop the conversion, click  again.

➔ The converted file is stored in a subfolder called “Converted”, which is created in the same directory as your chosen video file.

The file is named: <original file name>_<sequential number>.<format extension>.

3.4.3 Convert all files within a folder

1. ➔ Switch on all additional information you want to display in the converted videos (➔ Chapter 3.3 Displaying additional information on page 10).

2. ➔ To convert all files in a folder switch on .

➔ The Batch Video Conversion window opens.

3. ➔ See the number of files to convert (Fig. 10 /1).

4. ➔ To start the conversion click Start (Fig. 10 /2).

➔ Each file in the folder is converted.

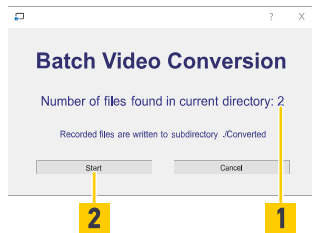


Fig. 10: Batch Video Conversion

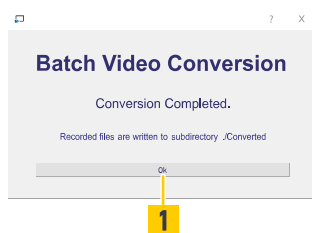


Fig. 11: Batch Video Conversion finished

5. ➔ The conversion stops when all files are converted. To close the window click Ok (Fig. 11 /1).

➔ The converted files are stored in a subfolder called "*Converted*", which is created in the same directory as your chosen batch folder.

The files are named: <original file name>.<format extension>.








Storing files

Files with the same name will be overwritten.

4 Appendix

List of keyboard commands

Key	Button	Description
<home>		Go to the start of the video.
<shift> + <tab>		Step backwards
<tab>		Step forwards
<space bar>	 and 	Play/Pause the video

5 Glossary and abbreviations

APS	Advanced People Sensor Second generation people sensor, successor of the APC.
APS-M	APS for Mobile applications such as busses and trains.
APS-RS	APS for Retail & Security and other stationary applications.
AVI	Audio Video Interleave Audio Video Interleave is a multimedia container format from Microsoft that allows synchronous audio-with-video playback.
HAGL	HELLA Aglaia
MP4	MotionPicture4 or MPEG-4 Part 14 is a digital multimedia container format most commonly used to store video and audio, but it can also be used to store other data such as subtitles and still images
tar-file	A tapearchive-file is an archive file to store many files into one single file.

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