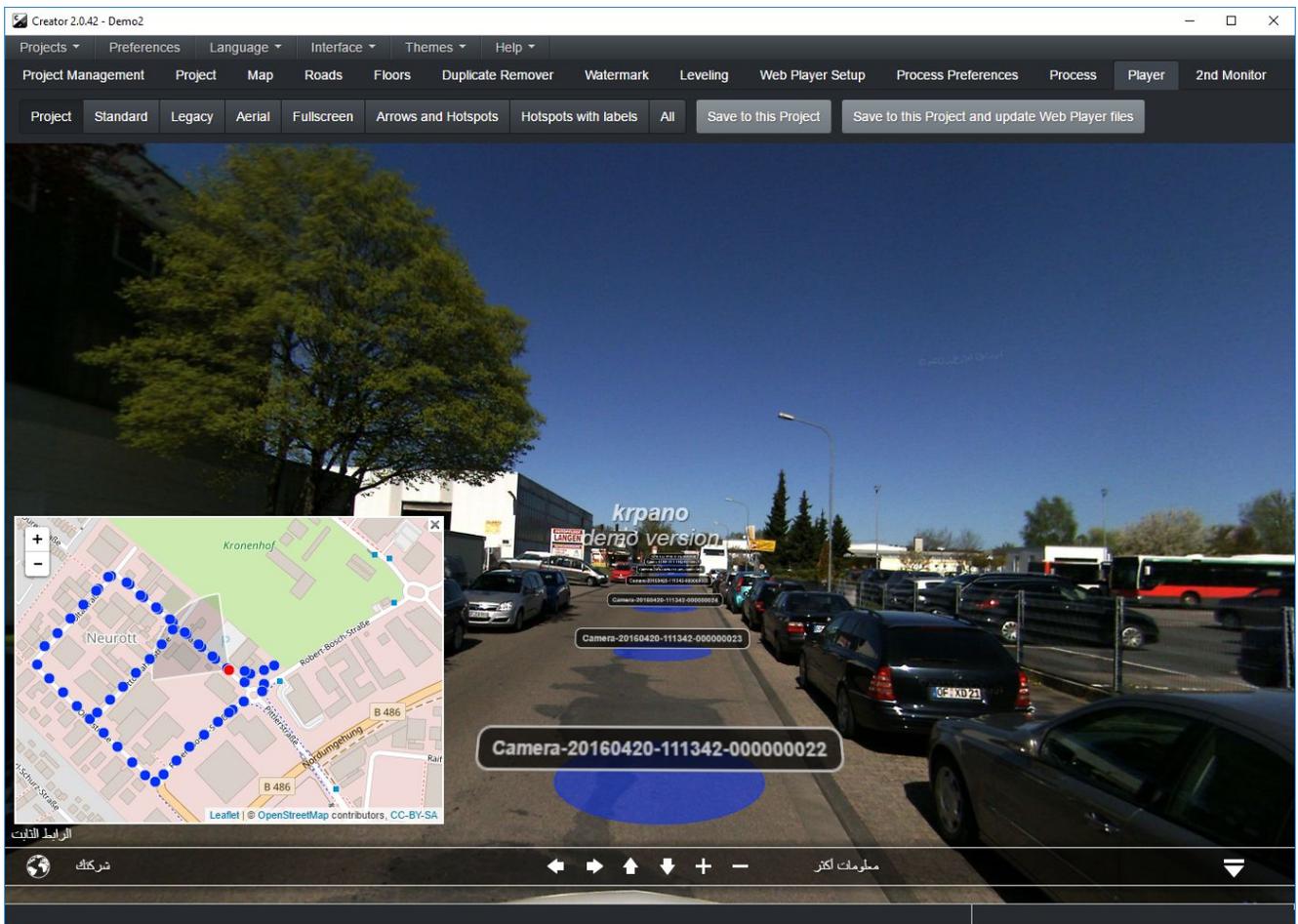




Creator 2 Manual



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Introduction

The Creator program is made by Applied Streetview.
It processes streetview footage recorded by the Applied Streetview Camera.

Output

- A folder with leveled, geo-referenced, equirectangular streetviews.
The streetview picture size is 8192 x 4096 pixels.
- A krpano-based player for the internet or your company's intranet.
- Data for the optional Android Player, which works 100% offline.

Installation

First download and install the CUDA 8.0 drivers.
Do not use CUDA 9.

<https://developer.nvidia.com/cuda-80-ga2-download-archive>

Then download and install the newest Creator program:

<http://applied-streetview.com/project/creator/>

Speed it up

Virus Scanners

Deactivate any 3rd-party Virus-Scanner you might have installed.

Deactivate for **Creator**, all folders it uses (including **in** and **out**) and the **.jpg** file format.

Windows Defender

Exclude the Creator **installation folder**:

C:\Program Files (x86)\Creator 2

Also **in** and **out** folders for the data:

F:\in

F:\out

And the **temporary data** folder:

C:\Users\USERNAME\AppData\Local\creator2\tmp



 Add an exclusion

Files and folders

 Exclude a file

 Exclude a folder

C:\Program Files (x86)\Creator 2

C:\Users\ADMIN\AppData\Local\creator2\tmp

F:\in

F:\out

Exclude .jpg files and the Creator programs:

File types

+ Exclude a file extension

jpg

Processes

When you exclude a process, any file associated with it will also be excluded.

+ Exclude a .exe, .com or .scr process

creator2.exe

as-stitcher8.exe

as-tiler8.exe

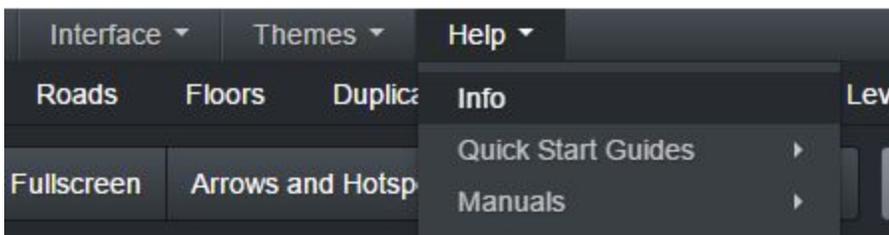
Additional Manuals

Additional manuals are available at our website:

<http://www.applied-streetview.com/>

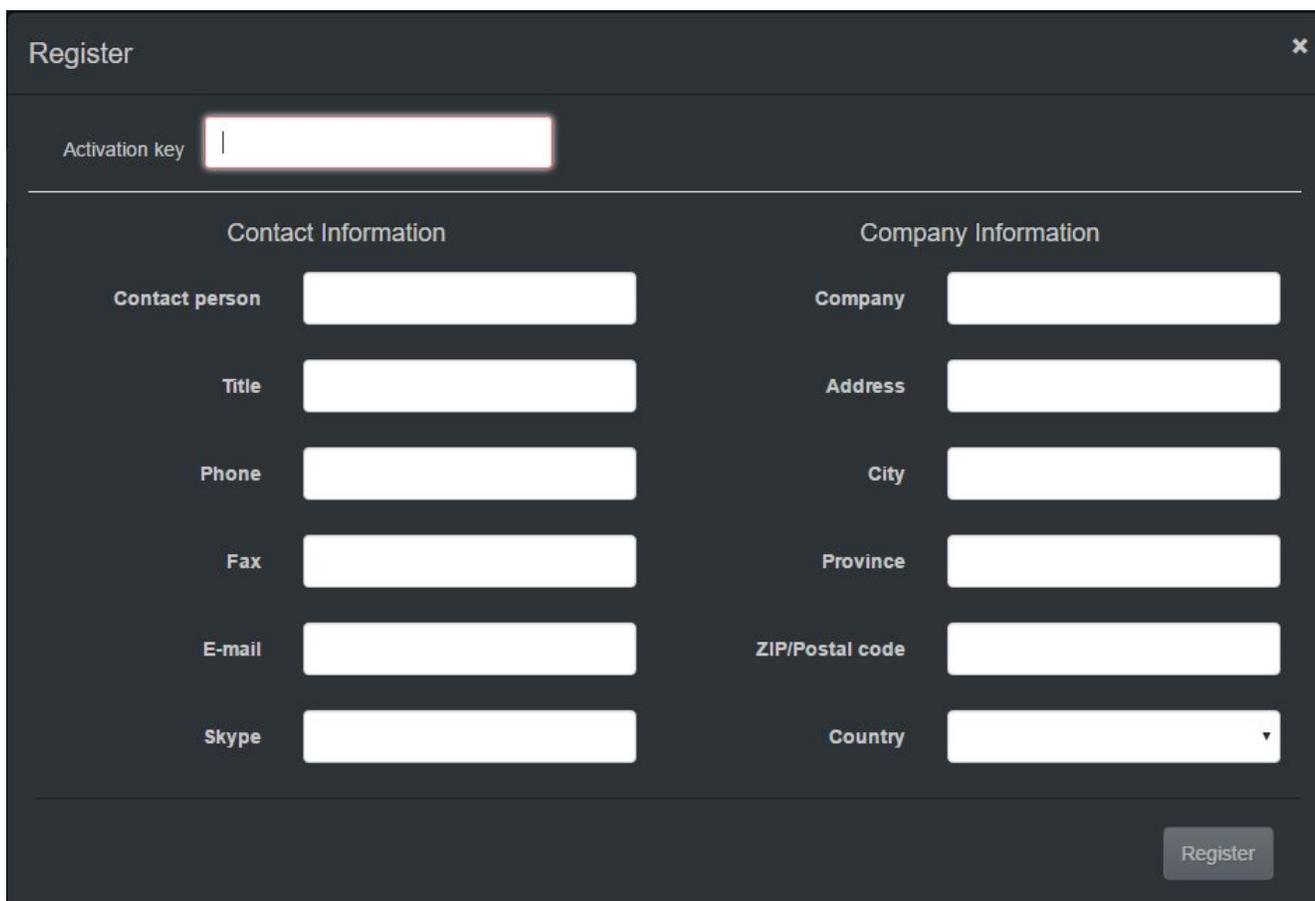
HOW-TO video

Shown automatically when you first open Creator, and later can be found in **Help -> Demo Video**



Licensing

Creator will work for 21 days as a trial with all the features available.
There are no limitations at all.



The image shows a dark-themed 'Register' popup window. At the top left, the title 'Register' is displayed with a close button (X) on the right. Below the title is a text input field for the 'Activation key'. The main form is divided into two columns: 'Contact Information' and 'Company Information'. The 'Contact Information' column includes fields for 'Contact person', 'Title', 'Phone', 'Fax', 'E-mail', and 'Skype'. The 'Company Information' column includes fields for 'Company', 'Address', 'City', 'Province', 'ZIP/Postal code', and 'Country'. A 'Register' button is located at the bottom right of the form.

When starting Creator for the first time, the **Register** popup will be displayed.
Fill it in and click the **Register** button.

Permanent activation key

With the purchase of a camera you will get a permanent activation key for Creator.
In the menu click **Help -> Add activation key**.
Paste in the activation key and click the **Register** button.
Additional activation keys are available. [Contact us](#).

Offline registration

If the PC you would like to use for Creator has no internet connection, instead of the Register button you will see a **Register Offline** button.
Click on the Register Offline button and follow the on-screen instructions.

Menu - Help - License Details

Shows the type of the licence and the end of the trial period.

Evaluation Licence:



Paid licence:

A purchased Creator licence never expires.

Menu - Help - Add activation key

Opens the license Register popup. Use this to update your evaluation license to a purchased license or replace a license.

User Interface

Language

English, French, Spanish, German, Arabic, Russian, Chinese, Romanian and Czech are available.

Interface

Standard

Everything it needs to process a project.

Advanced

For more complex projects and experienced users.

Menu entries for Advanced Features have a **bold font**.

Main Window

Tools

Menu

Timeline

Separate by Distance

Individual Optimizing

Preferences

For all projects -> Expert Mode

For all projects -> Troubleshooting

Themes

Dark

Tour name	Tour folder	Streetviews	Active	Deactivated	Yaw	Pitch	Roll	Exposure	Timezone adjustment	Recording mode	Move	Copy	Delete	Backup
Camera-20160420-111342	S:\as\Demo2\Camera-20160420-111342	196	196	0	0.0	0.0	0.0	1.5	2:00:00	Distance: 5.0 m	Move	Copy	Delete	Backup
Camera-20160420-111004	S:\as\Demo2\Camera-20160420-111004	182	61	121	0.0	0.0	0.0	1.5	2:00:00	Distance: 5.0 m	Move	Copy	Delete	Backup
Tours		Streetviews	Active	Deactivated										
2		378	257	121										

Light

Tour name	Tour folder	Streetviews	Active	Deactivated	Yaw	Pitch	Roll	Exposure	Timezone adjustment	Recording mode	Move	Copy	Delete	Backup
Camera-20160420-111342	S:\as\Demo2\Camera-20160420-111342	196	196	0	0.0	0.0	0.0	1.5	2:00:00	Distance: 5.0 m	Move	Copy	Delete	Backup
Camera-20160420-111004	S:\as\Demo2\Camera-20160420-111004	182	61	121	0.0	0.0	0.0	1.5	2:00:00	Distance: 5.0 m	Move	Copy	Delete	Backup
Tours		Streetviews	Active	Deactivated										
2		378	257	121										

Recommended Operating System

Windows 7, 8 or 10.

64-bit, any language.

32-bit Windows is not supported and will not work.

Recommended Hardware

Minimum requirements:

A must-have for production:

NVIDIA GTX 1080 graphics card with 8GB VRAM.

With the NVIDIA GTX 1080 graphics card, about 75.000 datasets can be processed every 24 hours.

Other components:

CPU with 4 cores and 8 threads, minimum 3.4 GHz.

16 GB RAM

250 GB SSD, or larger. For the Windows operating system.

2TB HDD for small data-sets.

Network drives (NAS) are recommended for larger data-sets.

Testing

You can try Creator with any 64-bit Windows 7, 8 or 10 PC.

However, without an NVIDIA graphics card and at least 8GB PC RAM processing will be extremely slow.

Example Data

Download and unzip the Example Data footage to process it:

<http://aplsv.s3.amazonaws.com/Demo2/Demo2.zip>

Check out the Creator Video, Manual and Quick Starter Guide:

<http://applied-streetview.com/project/creator/>

Projects & Tours

What is a Project?

To do any recording you first need to enter a **Project** name into the camera's Remote Control. The Remote Control creates a **Project folder** on the SSD.

What is a tour?

When you press the **Start** button on the camera's Remote Control a new **Tour folder** is created as a subfolder of the **Project folder**.

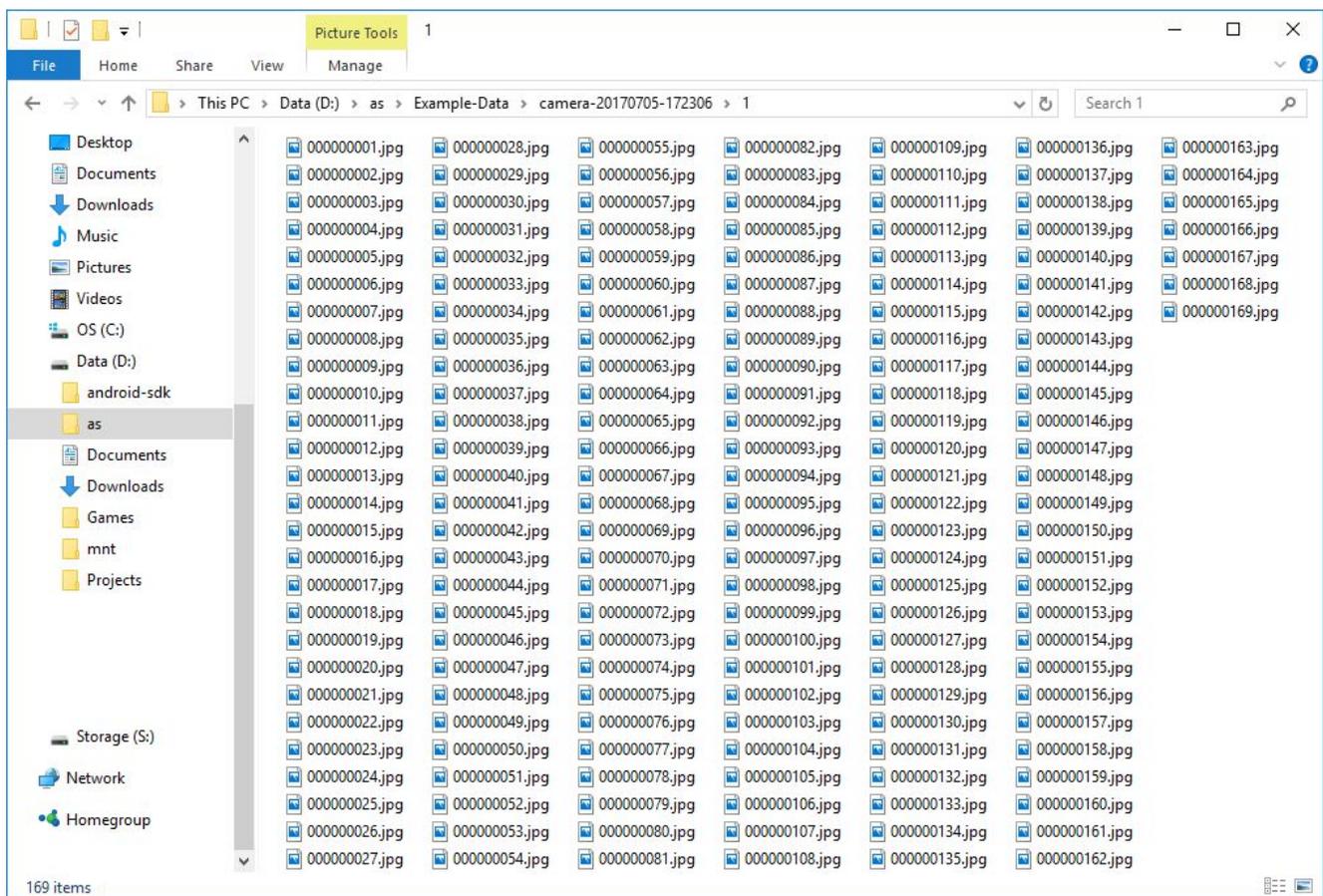
Here you see the **Example-Data** Project folder.

It has three Tour folders.

The screenshot shows Tour folder **camera-20170705-172306**.

Each Tour folder then has 7 sub-folders:

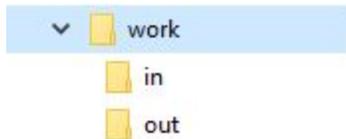
1 to 6 for the images and **7** for the log data.



Folder Structure

The Creator needs the following Folder Structure on the processing PC to work:

Create an empty **in** and **out** folder. **Work** is just an example parent folder, this could be any folder on any drive or NAS.



Do not process directly from the SSD. Always copy the data to a PC first. Disconnect the SSD before starting processing. It will act as your backup copy.

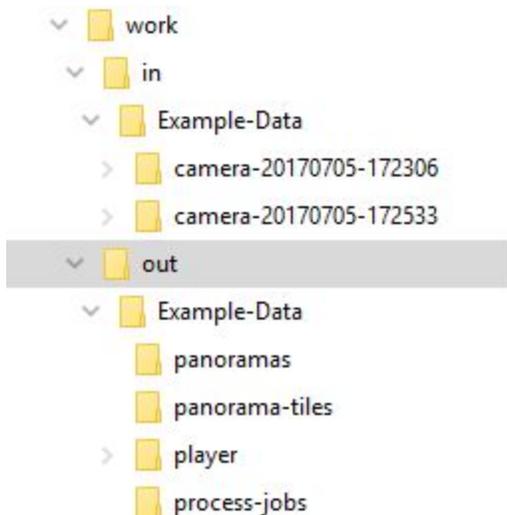
Make a backup copy of the recorded data for safekeeping.

Copy the Project folder from the **cameras SSD** to the **in** folder.



Creator saves its output to the **out** folder.

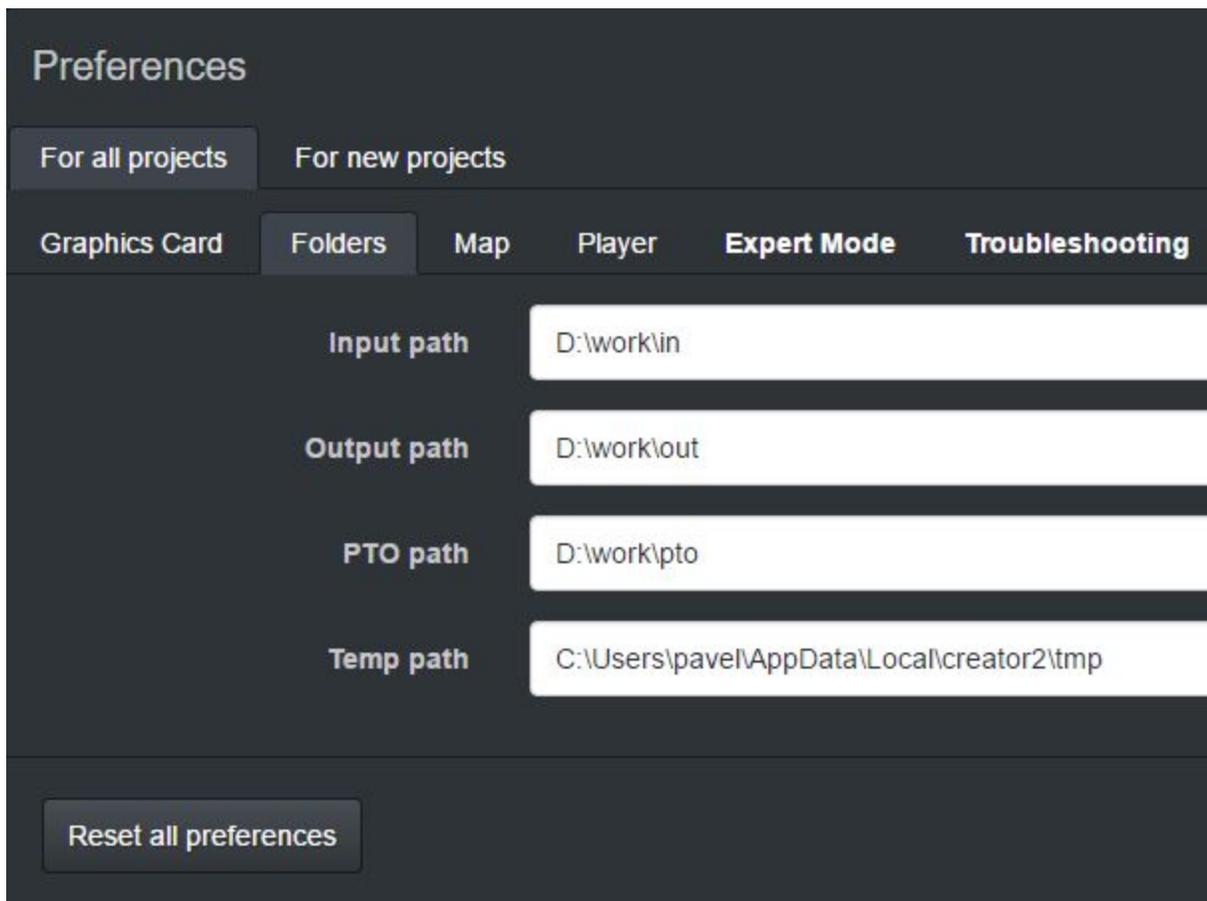
It automatically creates the Project name (Example-Data) in the out folder.



You can have the **in** and **out** folder on the same HDD or SSD.
Or on different drives.
Or on network drives.
Or mixed.

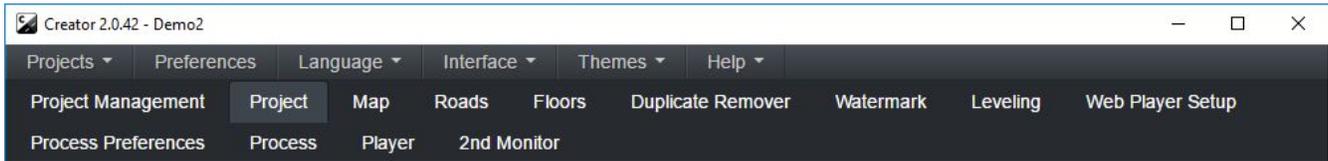
The **out** folder should be a local drive for speed reasons.

You need to set the **in** and **out** folders in Creator.
Creator will ask you for the folders when necessary.



Workflow

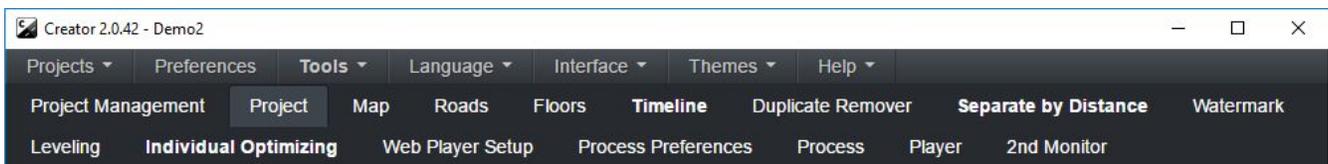
Just work through the tabs from left to right:



Of course, at any time you can go back to a previous tab and apply changes.

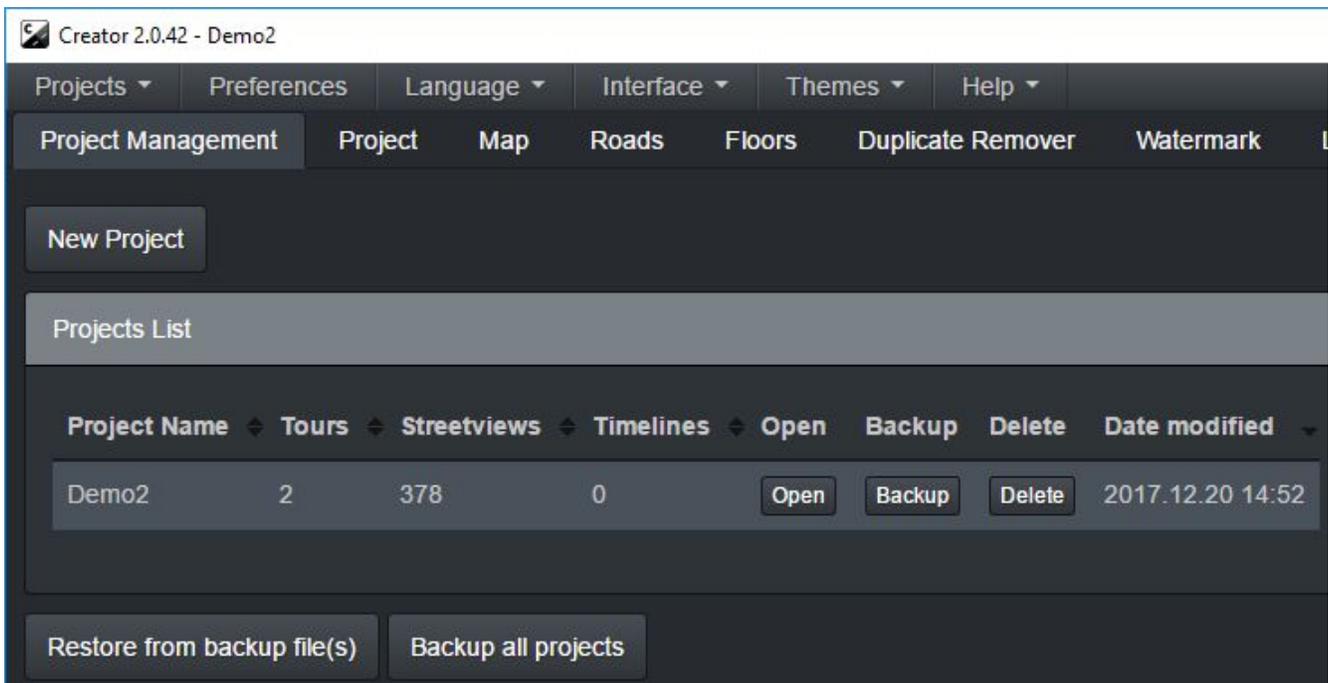
To enable additional tabs go to **Menu - Interface** and click **Advanced**.

Advanced tabs appear in bold.



Project Management

Projects list



The Projects list

For each project you see:

- Number of tours
- Number of streetviews
- Number of timelines

New project button

Open a project folder with at least one tour folder to add.

You can select and deselect tours in the pop-up.

Restore from a backup file button

Restore a project from a backed-up file.

Backup all projects

Backup **all** projects. The source photos are **not included** in the backup.

Open button

Open the project.

Backup button

Backup the project. The source photos are **not included** in the backup.

Delete button

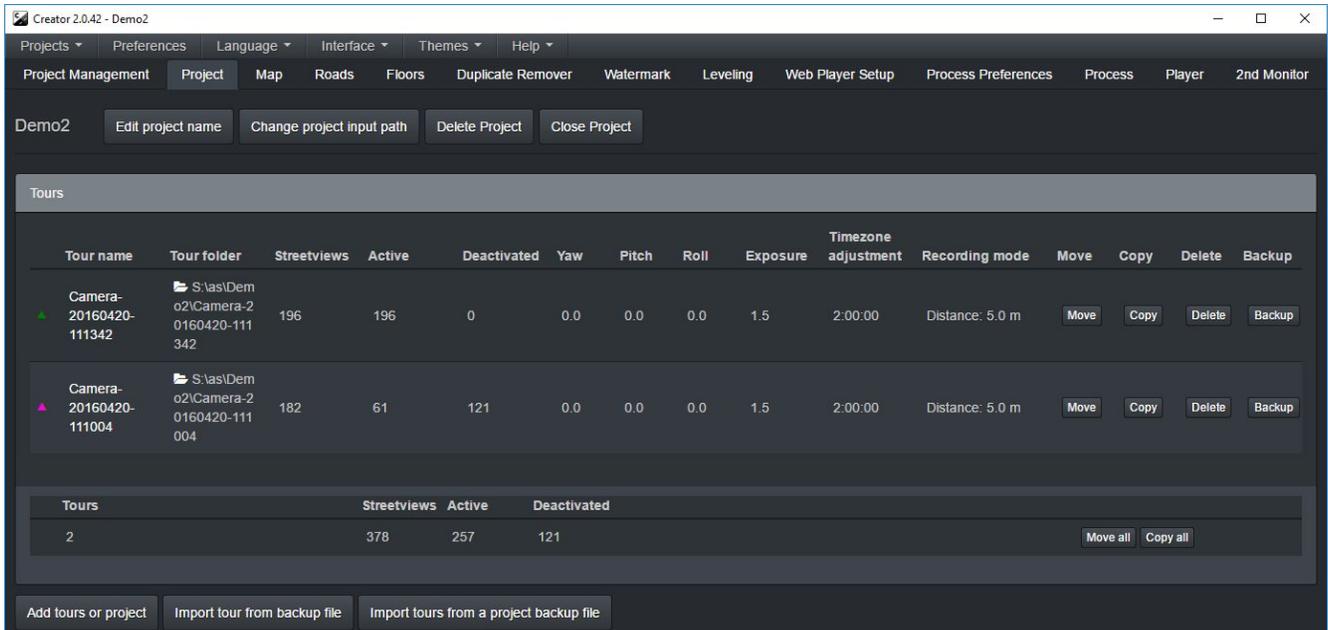
Delete the project from the Creator program. The source photos are **not deleted**.

Date modified

The date of the last edit made to the project.

Project

Tours list



Edit project name

Change the project name.

Change project input path

Change the project input path, if a project has been moved.

Delete project

Delete the project from the Creator program.
The source photos will not be **not** deleted.

Close project

To open another project or shut down the Creator program.

Tour name

Click a tour name to open it on the Map. The map will zoom in on the tour.
Good to find a tour quickly on the map.

Tour folder

Where the source-data is.

Edit icon: The path to a tour folder can be changed individually.

Timeline

Timeline title. This column is visible only if a timeline has been assigned to a tour in the Timeline tab.

Streetviews

Number of recorded data-sets.

Active

Number of active streetviews.

Deactivated

Number of deactivated streetviews. On the map tab you can deactivate streetviews to not process them, for example when a road has been recorded twice.

Yaw, Pitch, Roll

Settings from the Leveling tab.

Exposure

Setting from the Leveling tab.

Timezone adjustment

Unnecessary if the **Tablet is set to the local time**.

Manually adjust the GPS date and time by the time zone value to fix the local (recording) date and time.

Recording mode

Mode used when recording the streetviews. Either Interval, Distance or Manual.

Move button

Move the tour to a different project.

Copy button

Copy the tour to a different project.

Delete button

Deletes the tour from the project.

The source photos are **not** deleted.

Backup button

Backup the tour.

The source photos will not be **not** backed up.

Move All button

Moves all tours to a different project.

Copy All button

Copies all tours to a different project.

Add tours or project button

Add one or multiple tour folders to this project.

E.g. when additional roads have been recorded three months later.

Import tour from backup file button

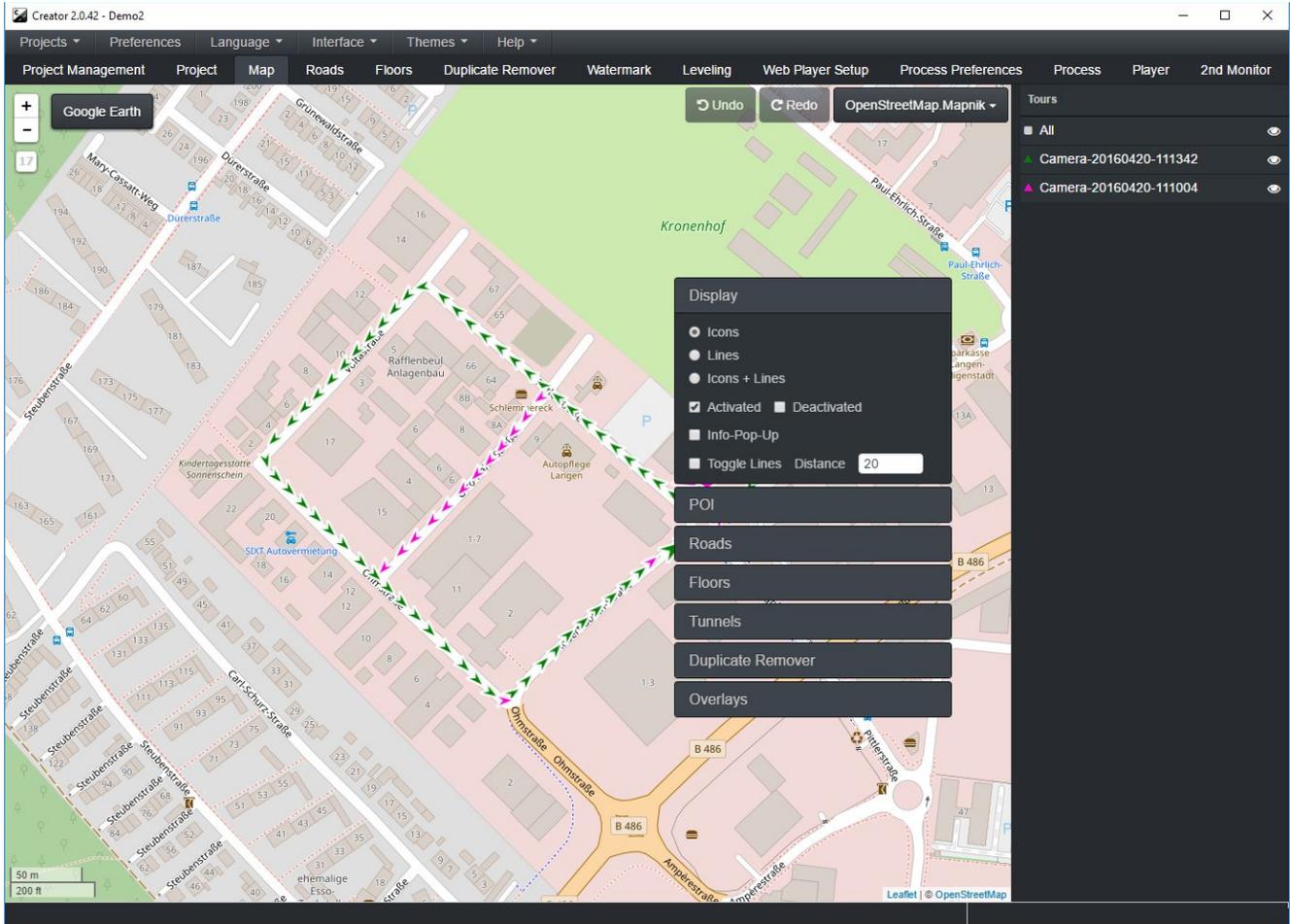
Add a tour from any tours backup file

Import tours from a project backup files button

Add one or more tours from any project's backup file.

Map

Right click on the Map for the menu:



Maps

The Screenshot shows the **OpenStreetMap.Mapnik** map.
Select any online map provider from the dropdown list, or use your own custom set of map-tiles.

To select your own custom map-tiles click on the first item in the list:
Your Company's map tiles. This opens the **Custom map tiles** popup.
Label, **Url** and **Attribution** properties can be adjusted in this popup.
The Url can point to either an online resource like:
`http://www.your-company.com/map-tiles/{z}/{x}/{y}.png`

or a local folder or NAS drive:
`file://D:\folder\{z}\{x}\{y}.png`

where {z} is the zoom level, and {x} and {y} are the coordinates of the top left corner of the tile in web mercator projection.

Custom map tiles

Label Your Company's map tiles

Url file://D:\folder\{z}\{x}\{y}.png or http://www.your-company.com

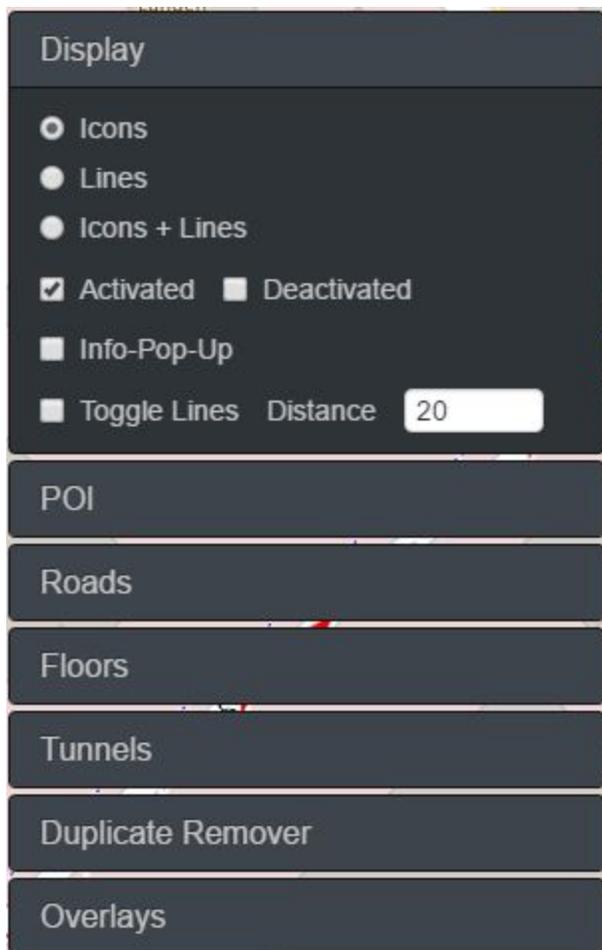
Attribution Copyright by Your Ci

Apply Reset Cancel

Main Map menu

Right-click on the map to access it.

Move the mouse outside the menu to close it.



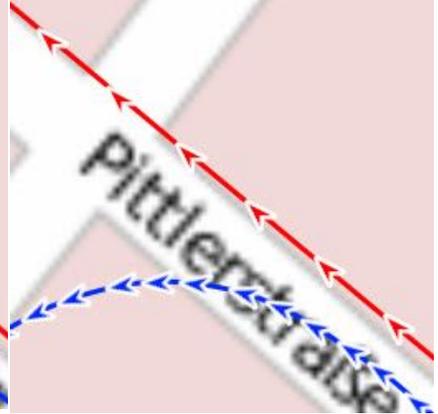
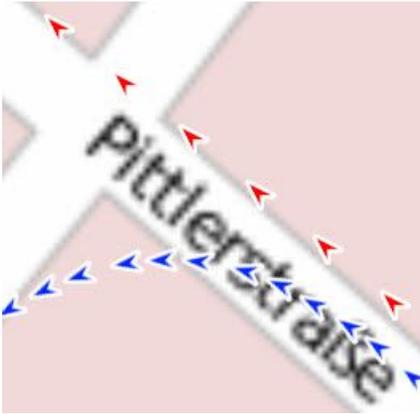
Display

- Icons
- Lines
- Icons + Lines

Icons

Lines

Both



- Activated
- Deactivated

Show or hide active and deactivated streetview icons.

Usually more footage than needed is recorded.

Using the [Duplicate Remover](#), [Separate by Distance](#) (Interface -> Advanced), as well as manual deactivation on the map tab this can be reduced.

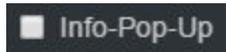
The Map tab is where you can check which streetviews are left active for processing.



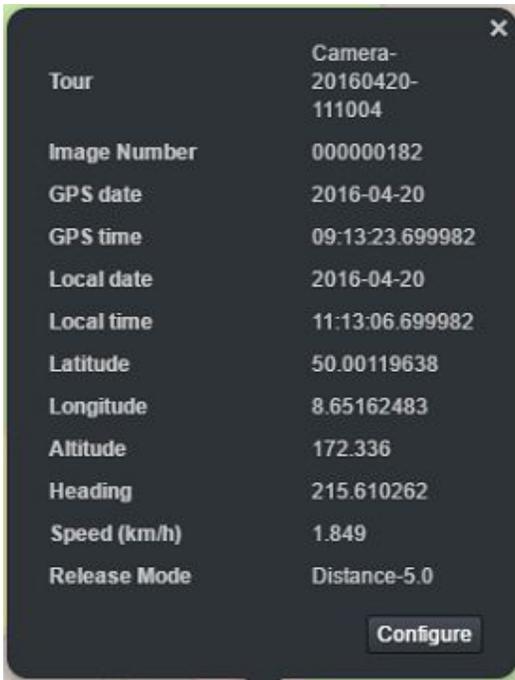
Deactivated streetviews are shown in a different color.

For this tour it is dark blue.

Info-Pop-Up

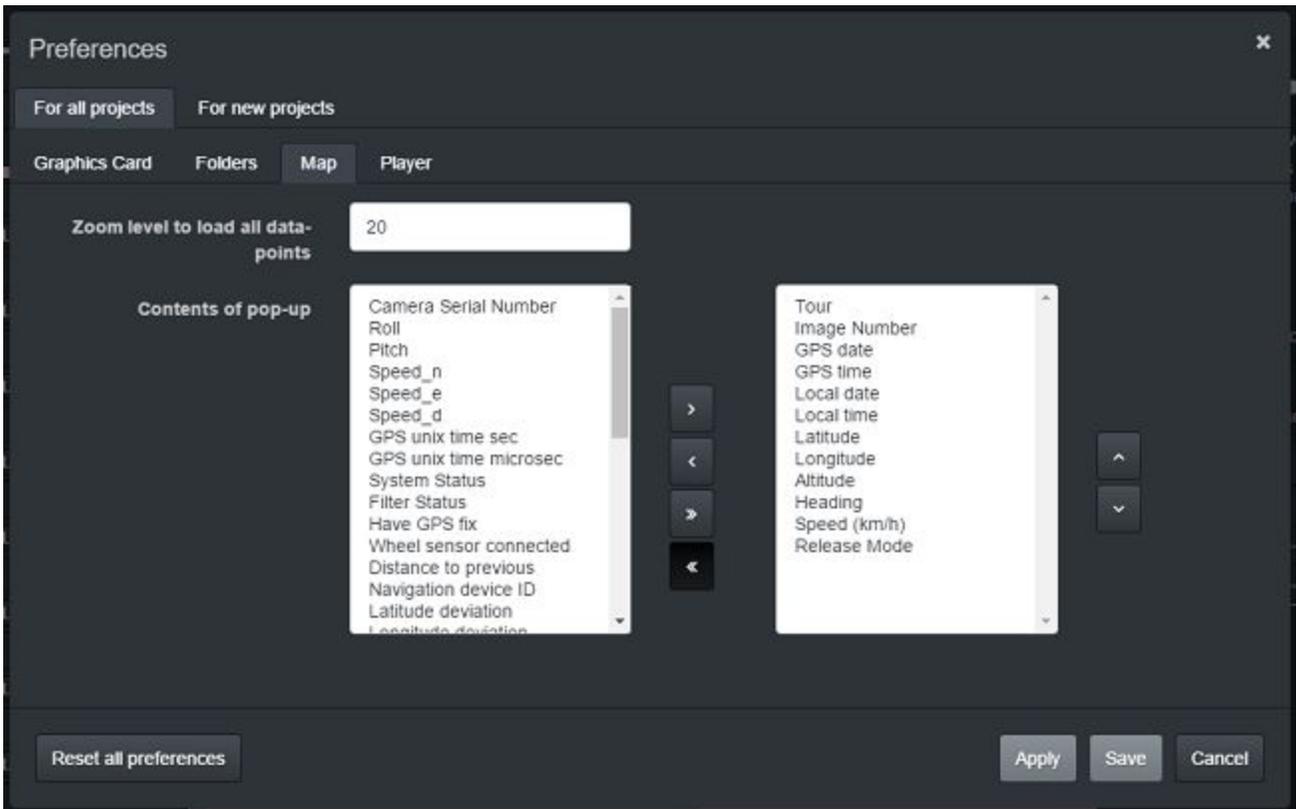


See the data for that streetview. See the default selection in the image below.

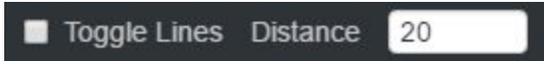


Configure button

Customize what data to display using the pop-up

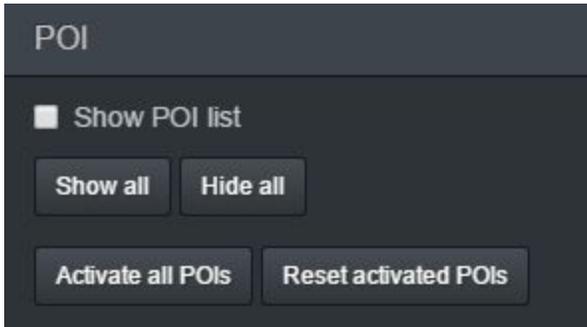


Toggle Lines

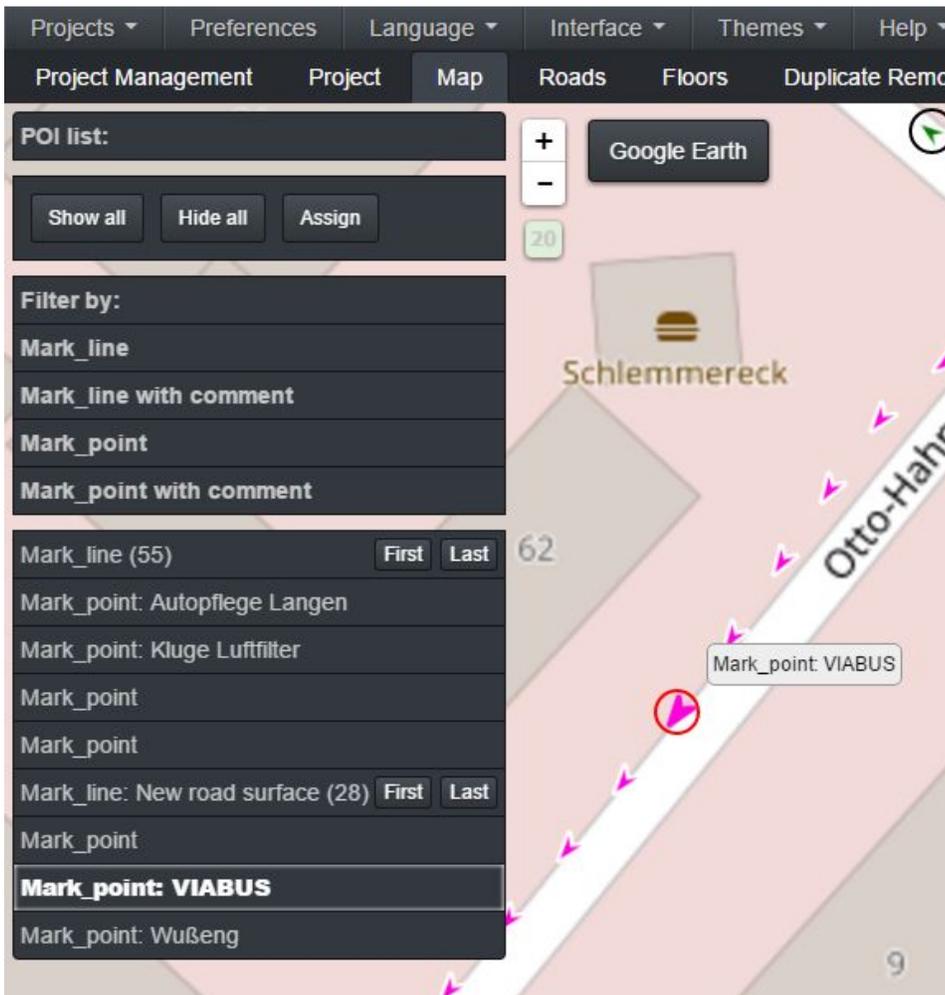


When displaying streetviews as lines, do not draw a line between streetviews if distance between them is more than the set **Distance**.

POI



Display **Points Of Interest** recorded using the POI tab in Remote Control. Black circles around a streetview icon indicate that it's a POI. A label with the POI name is displayed to the right of the streetview icon.



Show POI left panel top section (**Filter By**):

In this list all unique POI names are displayed. By default all POI are activated. Click on a POI name to deactivate it. Click again to activate. Multiple POI names can be deactivated at the same time.

Show POI left panel bottom section (**POI list**):

Click on a POI name to zoom into it on the map. The selected POI will have a red outline. If the POI was recorded in sticky mode, only 1 entry will be displayed in the list with the ability to zoom into the first and last streetviews of the sticky sequence by clicking on the **First** and **Last** buttons.

Show all - Check all **Filter by** items.

Hide all - Uncheck all **Filter by** items.

Activate all POIs - Reset all automatically deactivated streetviews (this includes Duplicate Remover and Separate by Distance),

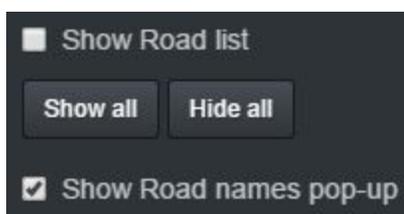
then deactivate all streetviews and activate only the streetviews containing a POI.

This action will not overwrite manually activated or deactivated streetviews.

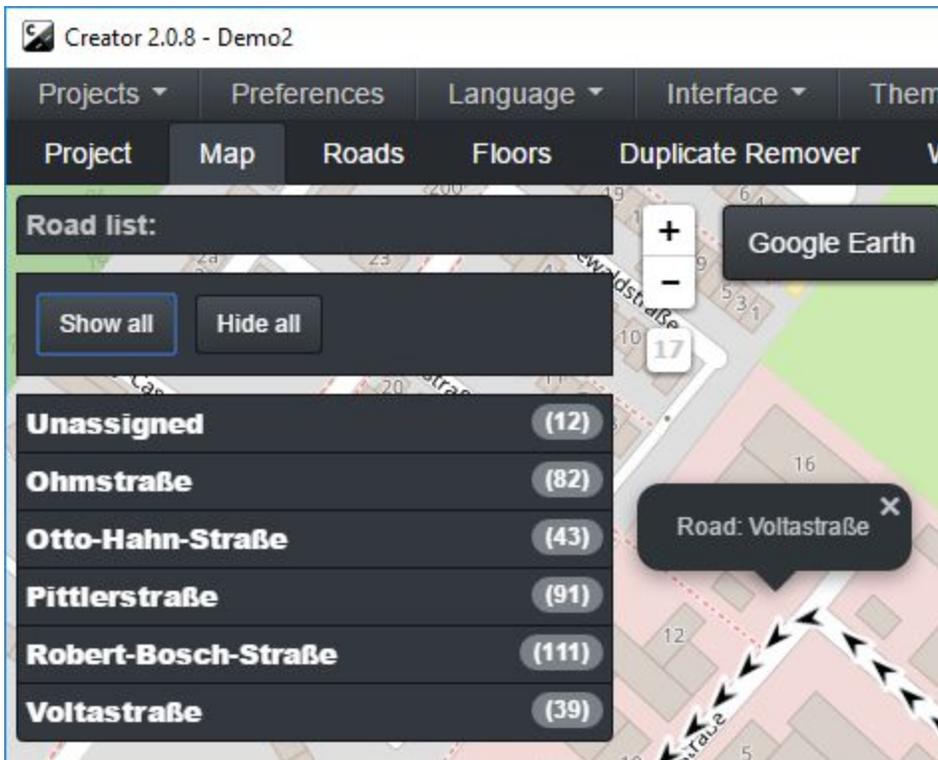
Reset activated POIs - Reset all automatically deactivated streetviews (this includes Duplicate Remover and Separate by Distance).

This action will not overwrite manually activated or deactivated streetviews.

Roads



Show Roads assigned in the Roads tab.

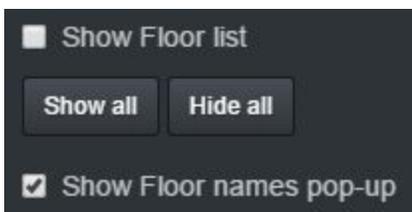


Show all - Check all **Road list** items.

Hide all - Uncheck all **Road list** items.

Show Road names pop-up - Moving the mouse over a streetview will display the Road name instead of the Info-Pop-Up.

Floors



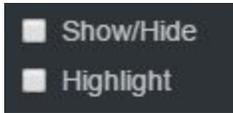
Show Floors assigned in the Floors tab.

Show all - Check all **Floor list** items.

Hide all - Uncheck all **Floor list** items.

Show Floor names pop-up - Moving the mouse over a streetview will display the Floor name instead of the Info-Pop-Up.

Tunnels

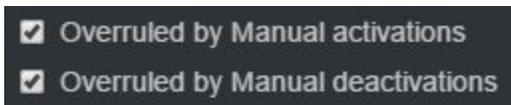


Show/Hide - Show only streetviews which are considered a tunnel.

Highlight - Highlight streetviews which are considered a tunnel.

A streetview is considered in a tunnel when GPS HDOP and VDOP values are above 10 meters, which typically only happens when the camera is inside a tunnel.

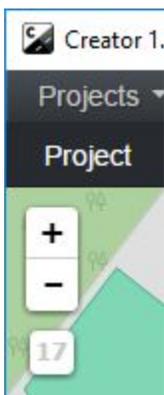
Duplicate Remover



Overruled by Manual activations: Panoramas activated manually will override values set by the duplicate remover.

Overruled by Manual deactivations: Panoramas deactivated manually will override values set by the duplicate remover.

Display all the data-sets at any zoom level



When viewing the map at a zoom level 20 in order to improve performance, not all streetviews and tracks will be shown.

If you need to view the entire data-set without any optimization, click on the zoom level button (top left corner of the map), a warning popup will be displayed to warn about performance implications, then click the **OK** button.

Undo and Redo

Either undo or Redo the last edit action. Works on theoretically unlimited levels.

Keyboard Shortcuts

Icons

Key	Function
Ctrl + z	Undo
Ctrl + y	Redo
Ctrl + a	Select all visible icons (even outside the map)
Ctrl + q	Deselect all visible icons (even outside the map)
Delete	Deactivate selected icons
Insert	Activate selected icons
Home	Rotate selected icons right
End	Rotate selected icons left
Page-Up	Next streetview
Page-Down	Previous streetview
Ctrl + I	Line-up selected icons. From first to last selected icon.
Ctrl + R	Assign a Road name to a selected Streetview(s)
Ctrl + F	Assign a Floor name to a selected Streetview(s)

Map

Key	Function
4 arrows	Move map up, down, left, right. Additional you can left-click with the mouse, then hold and move the map.
Mouse-wheel	Zoom in and out
+	Zoom in
-	Zoom out

Select single icon

Click it with the mouse.

Select many icons

Select first icon with the mouse. Press and hold the **Shift** key.

Select last icon with the mouse.

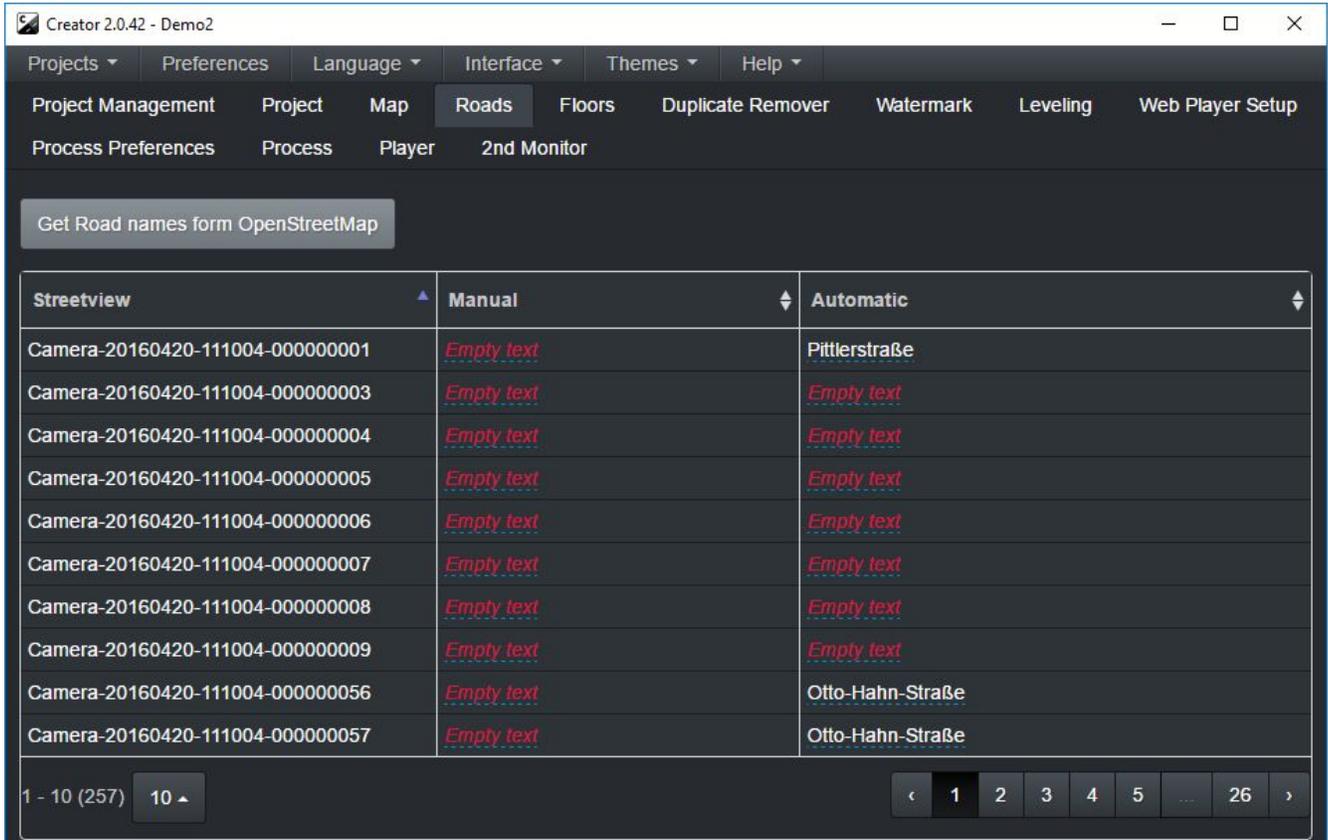
Move one or many icons

Select, then move with the mouse.

Road Names

Automatic

To assign road names automatically using OpenStreetMap, click on **Get Road names from OpenStreetMap** button.



The screenshot shows the 'Creator 2.0.42 - Demo2' application window. The 'Roads' tab is selected in the top menu. Below the menu is a button labeled 'Get Road names form OpenStreetMap'. The main area contains a table with three columns: 'Streetview', 'Manual', and 'Automatic'. The 'Streetview' column lists camera IDs. The 'Manual' column contains 'Empty text' for all entries. The 'Automatic' column contains 'Pittlerstraße' for the first two entries, 'Empty text' for the next six, and 'Otto-Hahn-Straße' for the last three. A pagination bar at the bottom shows '1 - 10 (257)' and a page number '10'.

Streetview	Manual	Automatic
Camera-20160420-111004-000000001	Empty text	Pittlerstraße
Camera-20160420-111004-000000003	Empty text	Empty text
Camera-20160420-111004-000000004	Empty text	Empty text
Camera-20160420-111004-000000005	Empty text	Empty text
Camera-20160420-111004-000000006	Empty text	Empty text
Camera-20160420-111004-000000007	Empty text	Empty text
Camera-20160420-111004-000000008	Empty text	Empty text
Camera-20160420-111004-000000009	Empty text	Empty text
Camera-20160420-111004-000000056	Empty text	Otto-Hahn-Straße
Camera-20160420-111004-000000057	Empty text	Otto-Hahn-Straße

Manually

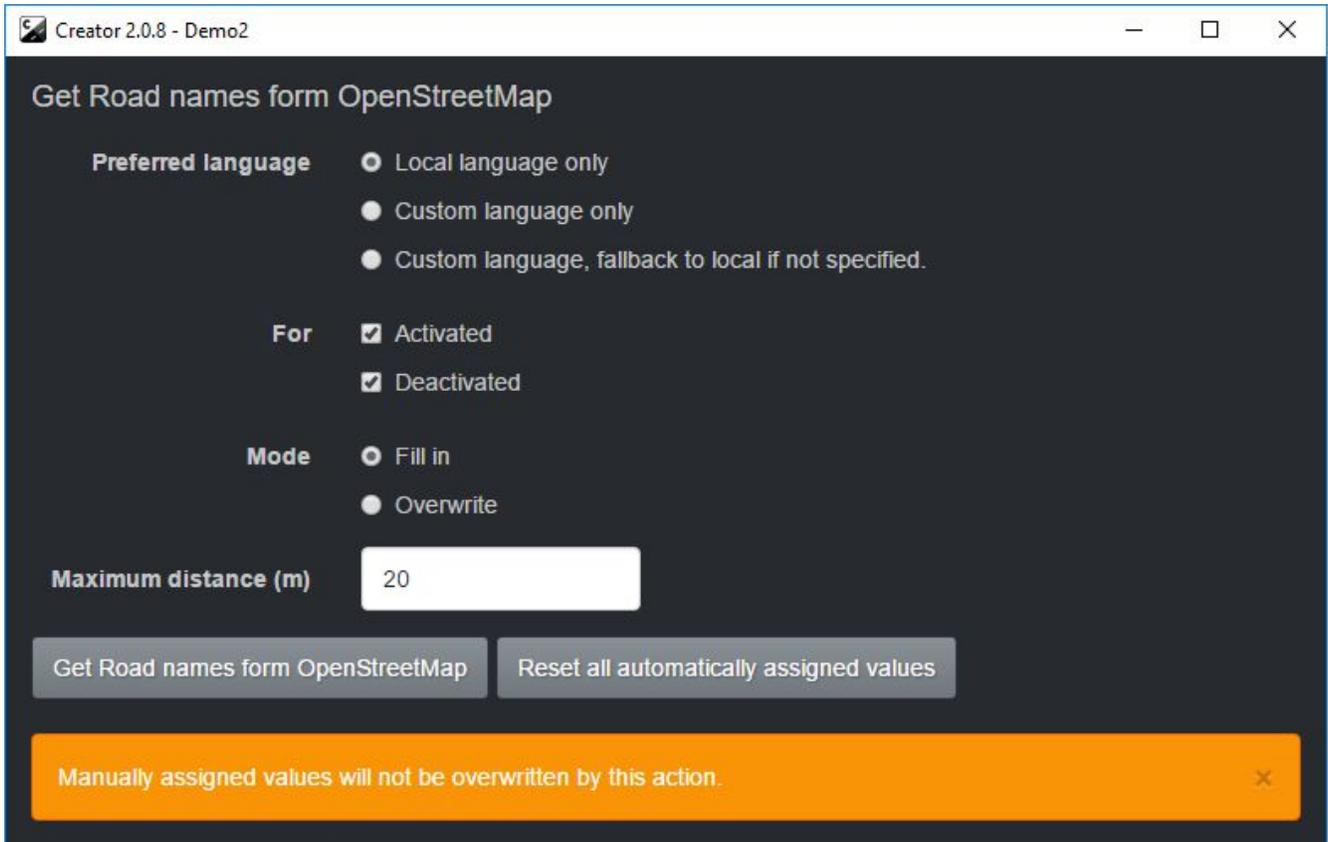
Click on a cell in the **Manual** or **Automatic** column to edit its content.

Manually assigned Road names will always overwrite automatically assigned Road names.

Map tab:

Select one or multiple streetviews on the map.

Click CTRL+R, enter the Road name and click **Save**.



Preferred language

- Local language only - "name" value of the OSM road.
- Custom language - "name:language" value of the OSM road.
- Custom language, fallback to local if not specified - If "name:language" value does not exist use "name".

For

- Activated streetviews
- Deactivated streetviews

Mode

- Fill in - Only update empty values in streetviews
- Overwrite - Overwrite all existing geocoded values in streetviews

Maximum distance (m)

Maximum Distance to the closest point on a road and a streetview to be considered for geocoding.

Get Road names from OpenStreetMap

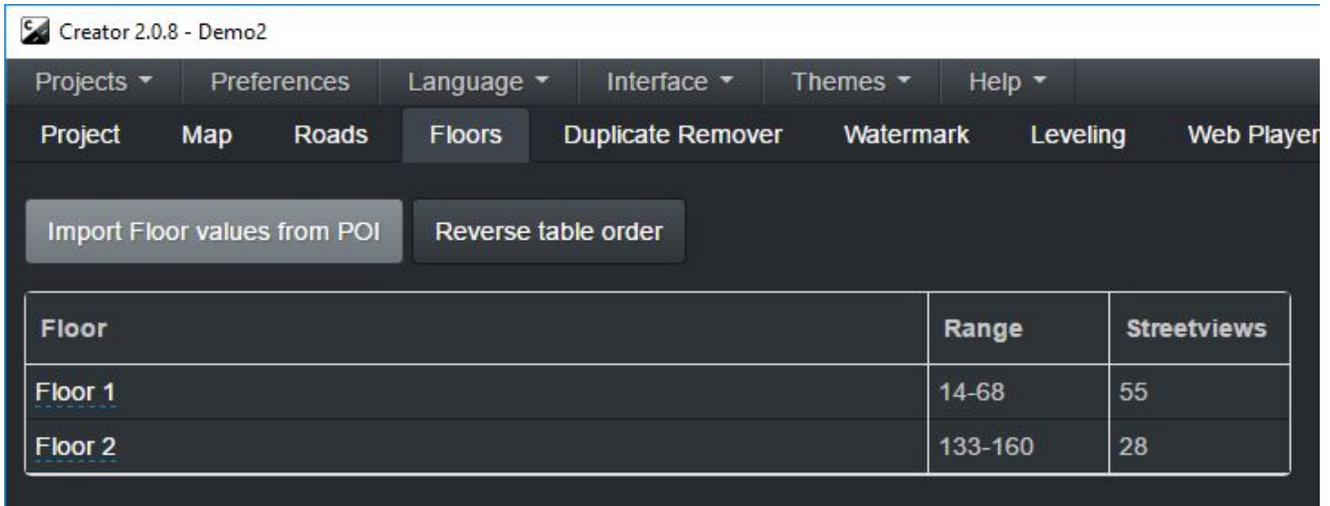
Reset all automatically assigned values

Floors

Floor names are created from **POIs**

Click on the **Import Floor values from POI** button to get the Floor names.

For this feature to work, you need to assign Floor names as **POIs** while recording., using the **Mark point with comment** or **Mark line with comment** action in the Remote Control's **POI tab**. Set the comment as the name of the Floor.



Floor	Range	Streetviews
Floor 1	14-68	55
Floor 2	133-160	28

Manually

Click on a cell in the **Floor** column to edit its content.

To assign a Floor name to a streetview from the Map tab: Select one or multiple streetviews, click **CTRL+F**, enter the Floor name and then **Save**.

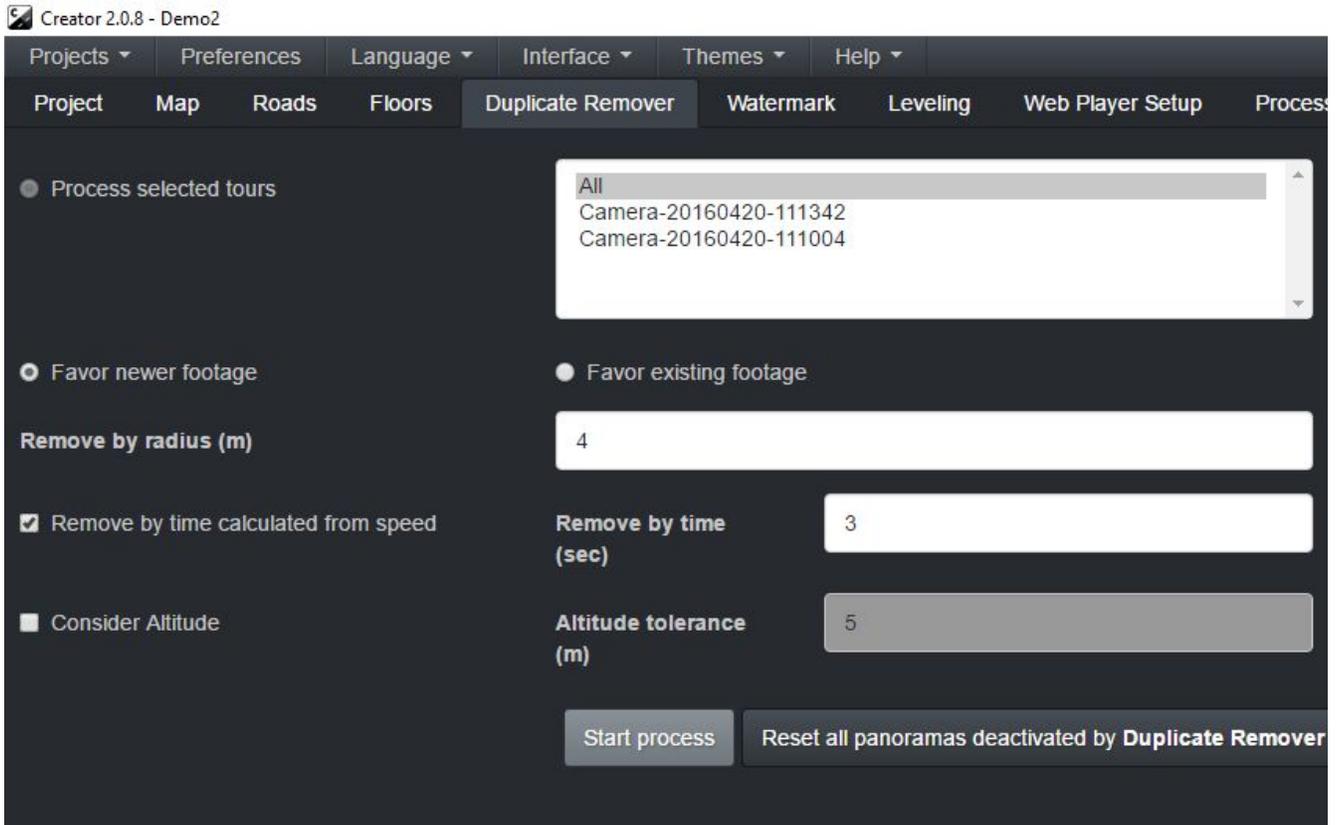
The order of the floors is important and should follow the original layout. An example of a valid order would be: -1, Ground floor, 1, 2, 3, 4, 5.

Click on the **Reverse table order** to sort the table **upside down**.

Drag and drop rows in the table to reorder.

Duplicate Remover

Removes duplicate recordings from roads recorded more than once..



Options:

Process selected timelines:

(Visible only when there are timelines)

Process only selected timelines.

Press **CTRL** and then click on a timeline to select multiple timelines.

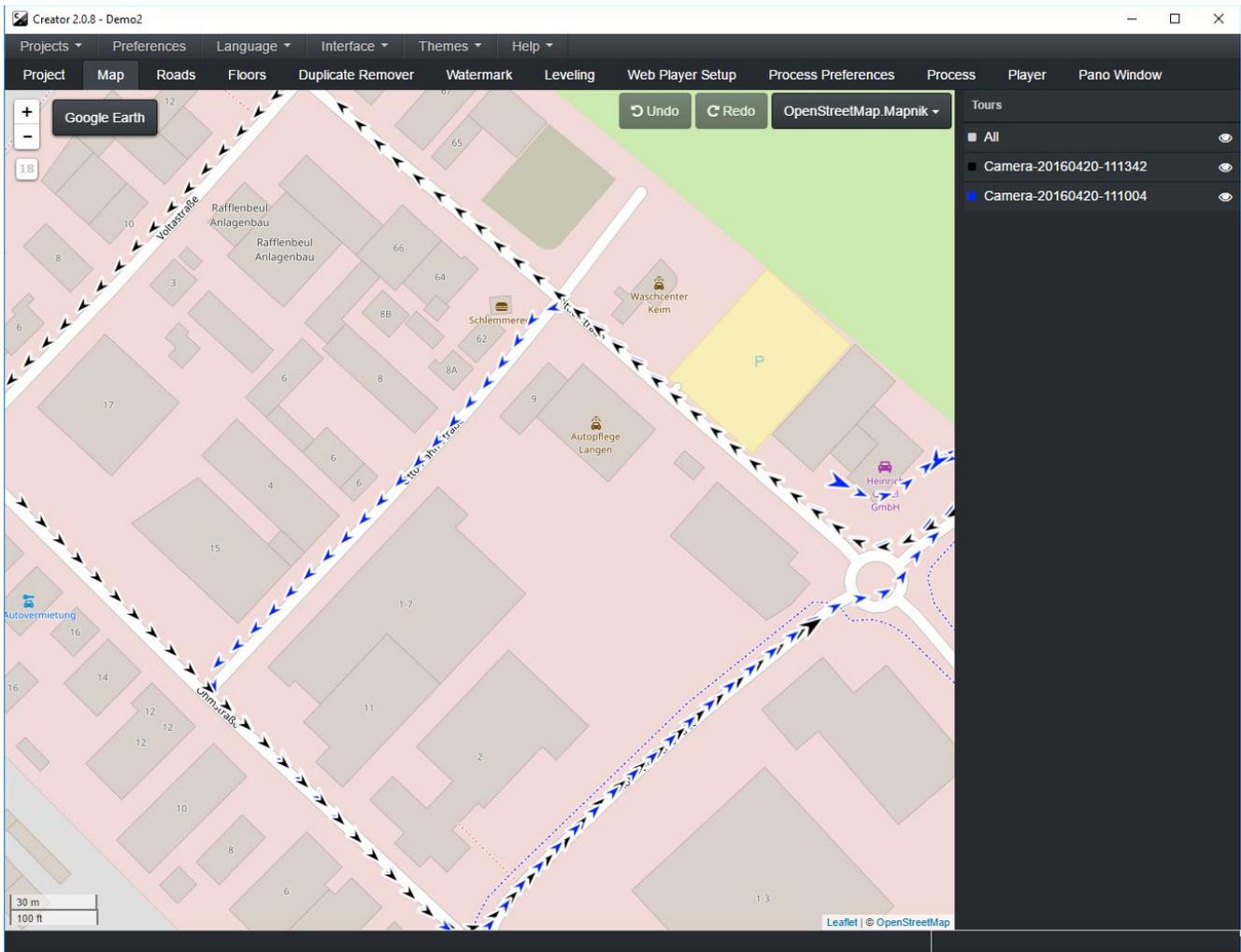
Process selected tours:

Process only tours selected from the list.

Press **CTRL** and then click on a tour to select multiple tours.

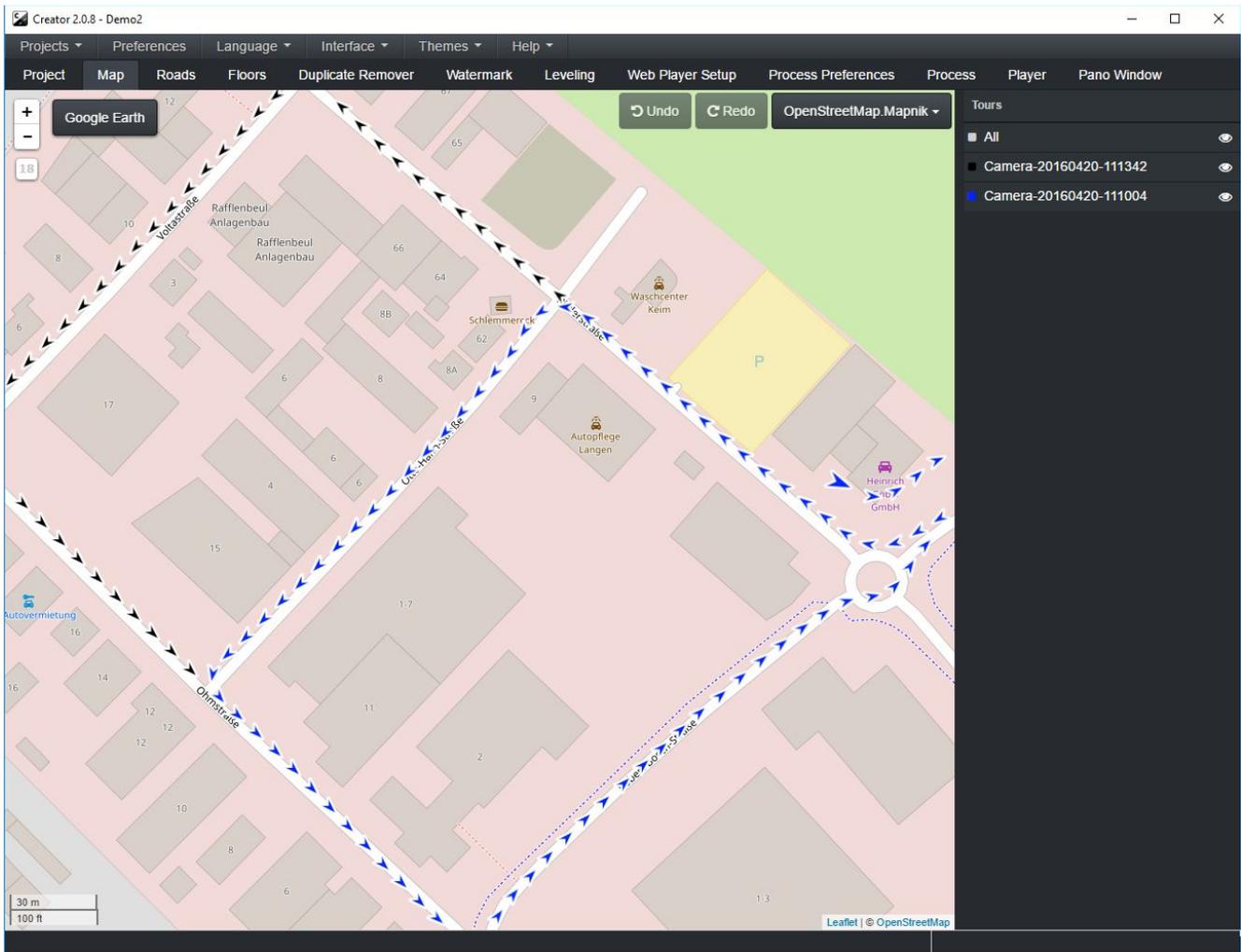
Favor newer footage:

Add streetviews for new roads, and replace existing streetviews.



Favor existing footage:

Keep existing streetviews, add streetviews for unrecorded roads:



Remove by radius

Remove all streetviews within x meters of this streetview.

Remove by time calculated from speed / Remove by time

But only if the streetview to be removed is at least x seconds newer or older than this streetview.

Remove by time calculated from speed option

This default option gives good results for most situations, to take care of huge speed differences. Depending on which value is bigger it uses either the **calculated time** or the **Remove by time**.

Remove by time

Gives you total control for special situations.

Consider Altitude

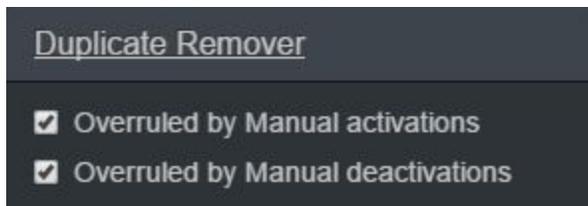
By default the altitude is not used to determine what is or is not a duplicate.

You will have to try a few times to find the optimum settings for your footage.

These three options allow you to try again and again:

Reset all streetviews

Reset all streetviews deactivated by **Duplicate Remover** and **Separate by Distance**



Check the Duplicate Remover results on the Map tab.

You then can fine-tune this by manually activating or deactivating streetviews.

Manual changes will be kept when running the Duplicate Remover again.

By default, manual edits are set to overrule results from the Duplicate Remover.

Watermark

Add watermarks to the streetview. The changes in this tab can be previewed in the **Leveling** tab.

Creator 2.0.8 - Demo2

Projects ▾ Preferences Language ▾ Interface ▾ Themes ▾ Help ▾

Project Map Roads Floors Duplicate Remover **Watermark** Leveling Web Player Setup Process Preferences

Add watermark

Text © Example Watermark

Font Arial-Bold ▾

Size 16

Opacity 10

Number of watermarks horizontally 6

Number of watermarks vertically 6

Add mask

Mask path C:\Program Files (x86)\Creator 1\masks\example-car-roof-mask.png

Save

Add watermark

Add watermarks to the resulting streetview.

Text

Watermark text.

Font

Watermark font name, font list is taken from C:\Windows\Fonts.

Size

Watermark text size.

Opacity

Watermark text opacity.

Number of watermarks horizontally

How many watermarks to place horizontally (left-right).

Number of watermarks vertically

How many watermarks to place vertically (up-down).

Add mask

A mask will cover the car's rooftop.

It is a transparent PNG image overlaid on top of the streetview.

A sample mask can be found in

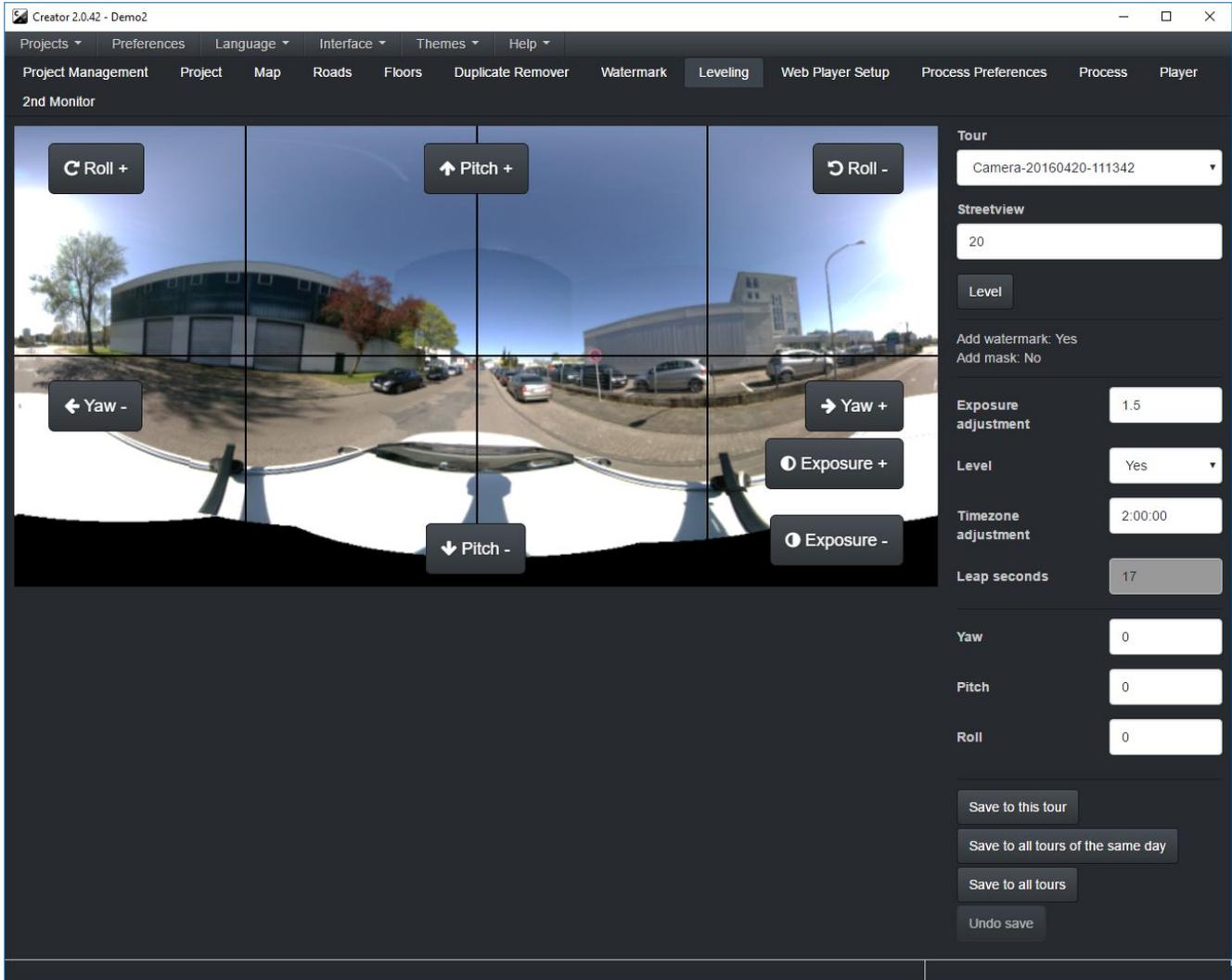
C:\Program Files (x86)\Creator\masks\example-car-roof-mask.png

Mask path

Path to the mask PNG image. Create your own mask file.

Leveling

Adjust for the difference between the camera and the leveling sensor.



In perfect world

- the camera would be mounted 100% vertical.
- the leveling sensor would be mounted 100% horizontal.
- both would look exactly forward, and in the exact same direction.

In the real world this does not happen.

Because of this you need to adjust for the three angles between the camera and the sensor. Use the **Pitch+**, **Pitch-** and **Roll+**, **Roll-** buttons to adjust until the streetview looks leveled. Alternatively you can directly enter numerical values into the fields on the right.

Check your findings with a few other streetviews of the same tour by entering a different name into the **Panorama** field.

Click the **Save to this tour** button to save the values to this tour only.

If the camera mount and the leveling device mount have not been removed from the car in between tours, you can use the same settings for all tours in the project.

Click on **Save to all tours of the same timeline** button to save the values to all the tours that have the same timeline as the current tour.

Click the **Save to all tours of this project** button to save the values to all tours of the project.

Otherwise adjustment will need to be done once for each tour and saved with the **Save to this tour** button. You can select the tour at the top-right hand.

You can see the **Yaw, Pitch and Roll** values of all tours at once on the Projects tab.

It's possible to undo any saved values by clicking on the **Undo save** button

Exposure adjustment

Default is 1.5. This makes all the images a bit brighter than the source images. If you want no change, set it to 0.

Level

Yes: The most commonly used set-up.

Level with the log value and the values from the Adjust tab.

No: No leveling at all.

Adjust: Use values from the Adjust tab only. Ignore the log data.

Timezone adjustment

Creator automatically calculates the local time from

- the tour name, which includes the tablets time
- the camera's log data, which has the GPS time.

In case the tablet time was not set to local time, you can adjust it here.

Web Player Setup

Preferences sub-tab

Set all the player preferences for the player.xml file.

Alternatively you can change this by editing the **player.xml** file.
Manual edits made to the player.xml file will not be shown here.

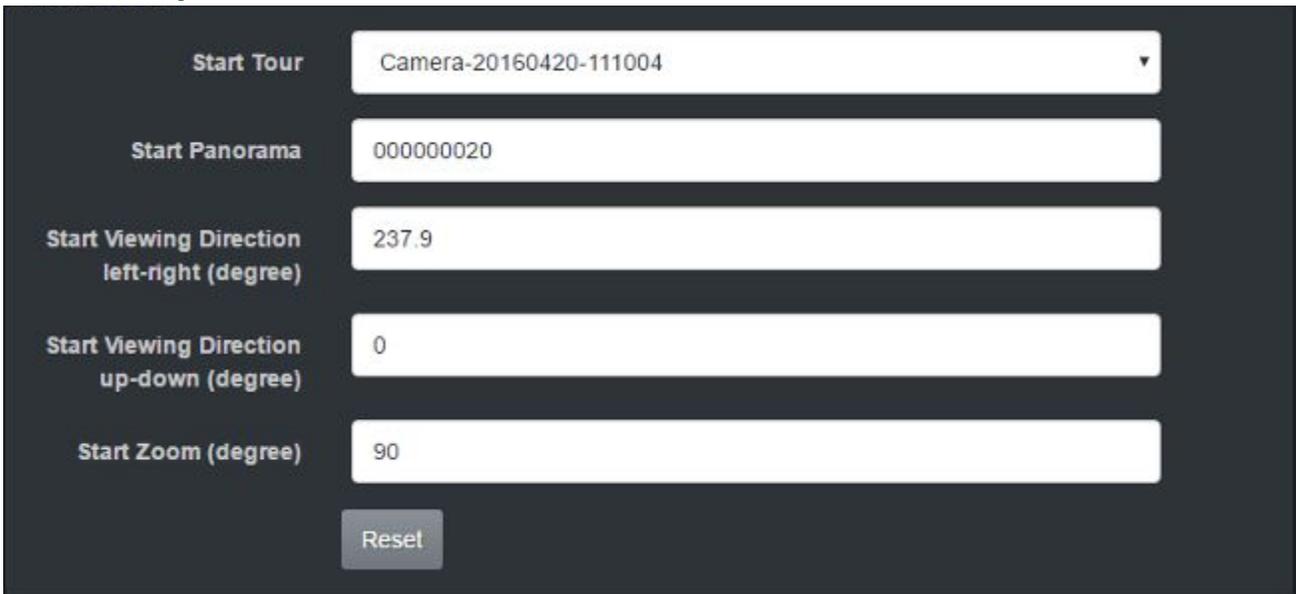
Basic



Pick

Pick the start view from the **Player** tab

Set manually

A dark grey rectangular panel with several input fields and a button. The fields are: 'Start Tour' with a dropdown menu showing 'Camera-20160420-111004'; 'Start Panorama' with a text input field containing '000000020'; 'Start Viewing Direction left-right (degree)' with a text input field containing '237.9'; 'Start Viewing Direction up-down (degree)' with a text input field containing '0'; and 'Start Zoom (degree)' with a text input field containing '90'. Below these fields is a 'Reset' button.

Start Tour

Start Panorama

Start Viewing Direction left-right (degree)

Start Viewing Direction up-down (degree)

Start Zoom (degree)

Title	<input type="text" value="Demo2"/>
Left Menu text	<input type="text" value="Your Company"/>
Left Menu URL	<input type="text" value="http://www.yourcompany.com"/>
Left Menu URL target	<input type="text" value="Opens the linked document in a new window or tab. Value: _blank"/>
Right Menu text	<input type="text" value="More info"/>
Right Menu URL	<input type="text" value="http://www.yourcompany.com/example-project"/>
Right Menu URL target	<input type="text" value="Opens the linked document in a new window or tab. Value: _blank"/>
Permalink Text	<input type="text" value="Permalink"/>
Timeline label	<input type="text" value="Timeline"/>
	<input type="button" value="Reset"/>

Title

The project name will be suggested by default. You can overwrite it.

Left Menu text

Left Menu URL

Left Menu URL target

Right Menu text

Right Menu URL

Right Menu URL target

Permalink Text

Timeline label

Logo S:\Downloads\APPLIED-STREETVEIW-LOGO_SML.png

Logo URL http://applied-streetview.com/

Reset

Logo

Path to a logo image in PNG format to be displayed in the top right corner of the player.

Logo URL

Clicking on the logo will open the specified URL.

Map Visible

Permalink Visible

Menu Visible

Map Button Visible

Navigation mode Hotspots

Reset

Map

Show/Hide Map

Permalink

Show/Hide Permalink

Menu

Show/Hide the Menu

Map Button

Show/Hide the Map button

Navigation mode

Arrows/Hotspots/Arrows and Hotspots

Streetview

View	Relative to Car ▼
Mouse Control	Streetview style (recommended) ▼
Minimum zoom limit (degree)	50
Maximum zoom limit (degree)	120
Look down limit (degree)	-50
Look up limit (degree)	50

View

Relative to Car/Forward

Mouse Control

Streetview style (recommended) / Old-school streetview style

Minimum zoom limit (degree)

Maximum zoom limit (degree)

Look down limit (degree)

Look up limit (degree)

Settings panel for Streetview labels:

- Show Arrow label: Mouse
- Clickable Arrow labels: Yes
- Arrow labels from this column of the Streetview table: Streetview
- Show Hotspot label: Always
- Clickable Hotspot labels: Yes
- Hotspot label from this column of the Streetview table: Streetview

Reset

Show Arrow label
Mouse/None/Always

Clickable Arrow labels

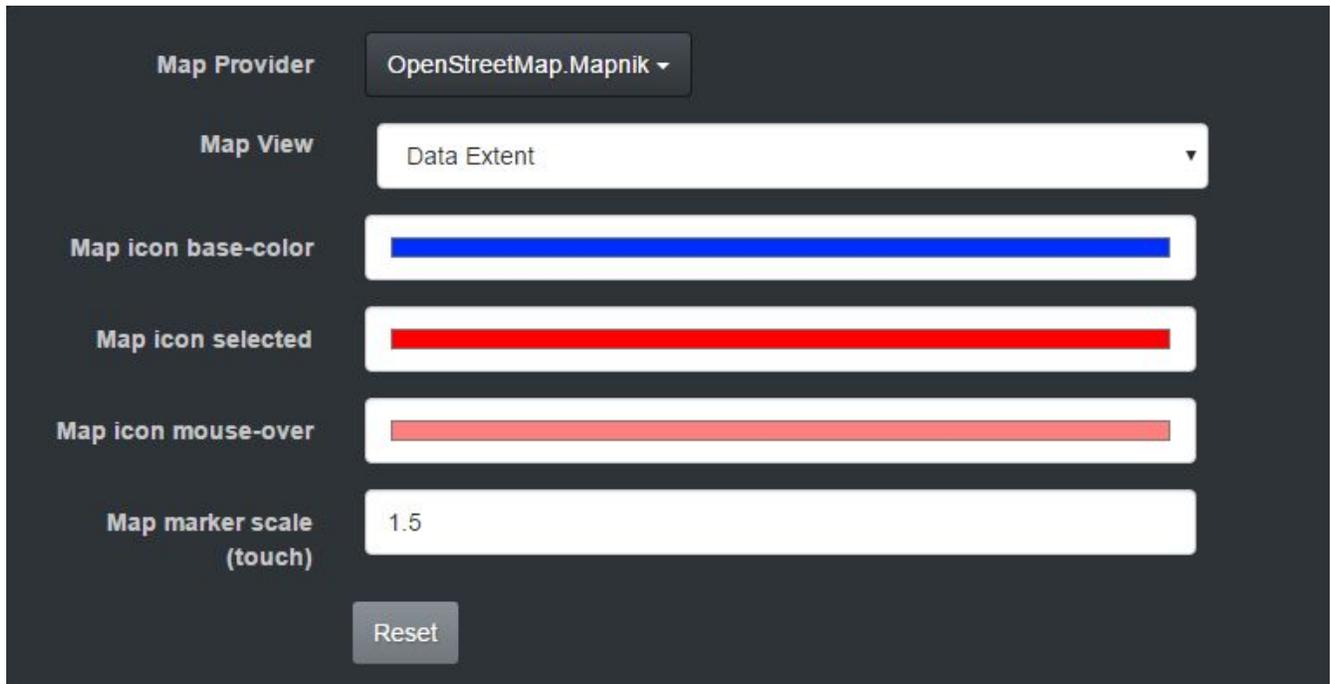
Arrow labels from this column of the Streetview table
Road/Streetview/Description

Show Hotspot label
Mouse/None/Always

Clickable Hotspot labels

Hotspot label from this column of the Streetview table
Road/Streetview/Description

Map



The image shows a dark-themed configuration panel for a map. It contains the following elements:

- Map Provider:** A dropdown menu currently showing "OpenStreetMap.Mapnik".
- Map View:** A dropdown menu currently showing "Data Extent".
- Map icon base-color:** A horizontal color bar showing a blue gradient.
- Map icon selected:** A horizontal color bar showing a red gradient.
- Map icon mouse-over:** A horizontal color bar showing a light red/pink gradient.
- Map marker scale (touch):** A text input field containing the value "1.5".
- Reset:** A button located at the bottom of the panel.

Map Provider

Select any online base layer from the dropdown menu or define your own custom map tile set.

Map View

Start Panorama/Data Extent/Lat,Lon

Map icon base-color

Color of the default map icon

Map icon selected

Color of the selected map icon

Map icon mouse-over

Color of the map icon when the mouse cursor is on it

Map marker scale (touch)

Adjust marker scale on touchscreen devices

Radar-cone

The image shows a configuration panel for the 'Radar-cone' feature. It is set against a dark background. The panel contains five rows of controls:

- Show Radar-cone:** A dropdown menu with 'Visible' selected.
- Radar-cone size units:** A dropdown menu with 'Percent' selected.
- Radar-cone size value:** A text input field containing the number '25'.
- Radar-cone stroke color:** A color picker showing a white color swatch.
- Radar-cone fill color:** A color picker showing a black color swatch.

At the bottom of the panel is a 'Reset' button.

Show Radar-cone

Show/Hide Radar-cone

Radar-cone size units

Units used to resize the Radar-cone. If percentage option is selected, the percentage refers to the total map height.

Radar-cone size value

Radar-cone size value

Radar-cone stroke color

Color of the Radar-cone border

Radar-cone fill color

Color of the Radar-cone

POI



Create poi-list.php file in the 'player' folder Yes

Show label for a POI Streetview

Show POI name Yes

Reset

Create poi-list.php file in the 'player' folder

Show label for a POI

None	Do not display a label for the POI
Streetview	Use the streetview name as the label for the POI
Road	Use the road name as the label for the POI

Show POI name

Comment only	Display the POI comment only
Yes	Display the POI name and the comment
No	Do not display the POI name

In case you need to create a more advanced POIs file, set **Interface** to **Advanced**, then use **Tools -> Export**, for example in .csv format.

You can then construct any kind of links easily with the free [Libre Office Calc](#) or with MS Excel by chaining the desired values together.

Floors

The image shows a configuration panel for 'Floors' settings. It has a dark grey background with white text and input fields. The settings are as follows:

- Show floors:** A dropdown menu with 'Hidden' selected.
- Start floor:** An empty dropdown menu.
- Floor label:** A text input field containing 'Floor'.
- Next and previous Floors color:** A color selection bar with a green bar.
- Floor does not exist in timeline message:** A text input field containing 'Floor \$1 does not exist in timeline \$2'.

At the bottom of the panel is a 'Reset' button.

Show floors

Show floors arrows and hotspots

Start floor

Default floor to start the Player with

Floor label

Next and previous Floors color

Floor does not exist in timeline message

Automatic rotation

Enabled	Enabled
Wait time	0
Speed	3
Direction	Left
Horizon	0
Zoom to FOV	120
Click disables auto rotate	Enabled

Enabled

Wait time

Time in seconds before the rotation starts

Speed

Rotation speed

Direction

Automatically pan streetview either to the right or left

Horizon

Automatically pan streetview to match a specific horizon

Zoom to FOV

Click disables auto rotate

Expert

Arrows

Show Arrows for nearby streetviews	<input type="text" value="Yes"/>
Display nearby Arrows within this distance (meters)	<input type="text" value="20"/>
Maximum number of nearby Arrows	<input type="text" value="10"/>
Arrow image scale (mouse)	<input type="text" value="0.5"/>
Arrow image scale (touch)	<input type="text" value="1"/>
Next and previous Streetviews color	<input type="color" value="#FF0000"/>
Nearby Streetviews color	<input type="color" value=""/>

Show Arrows for nearby streetviews

Display nearby Arrows within this distance (meters)

Maximum number of nearby Arrows

Arrow image scale (mouse)

Arrow image scale (touch)

Next and previous Streetviews color

Nearby Streetviews color

Hotspots

Camera height offset from ground level (meters)	<input type="text" value="1.95"/>
Show nearby Hotspots	<input type="text" value="Yes"/>
Display nearby Hotspots within this distance (meters)	<input type="text" value="40"/>
Maximum number of nearby Hotspots	<input type="text" value="20"/>
Hotspot width (pixels)	<input type="text" value="150"/> <small>0 to 1000</small>
Hotspot color	<input type="color" value="#0000FF"/>
Hotspot opacity	<input type="text" value="0.5"/>
<input type="button" value="Reset"/>	

Camera height offset from ground level (meters)

Show nearby Hotspots

Display nearby Hotspots within this distance (meters)

Maximum number of nearby Hotspots

Hotspot width (pixels)

Hotspot color

Hotspot opacity

Arrow label style

Font	<input type="text" value="Arial, Helvetica, sans-serif"/>
Font size	<input type="text" value="14"/>
Bold	<input type="text" value="Yes"/>
Show Background	<input type="text" value="Yes"/>
Background color	<input type="color" value="#000000"/>
Background alpha	<input type="text" value="0.667"/>
Show Border	<input type="text" value="Yes"/>
Border width	<input type="text" value="2"/>
Border color	<input type="color" value="#FFFFFF"/>
Round edge radius	<input type="text" value="10"/>
Text color	<input type="color" value="#CCCCCC"/>
Padding (Top Right Bottom Left)	<input type="text" value="6 10 6 10"/>
Text align	<input type="text" value="Center"/>
Y offset	<input type="text" value="-5"/>

Font

Font size

Bold

Show Background

Background color

Background alpha

Show Border

Border width

Border color

Round edge radius

Text color

Padding (Top Right Bottom Left)

Text align

Y offset

Hotspot label style

Hotspot label style

Font	<input type="text" value="Arial, Helvetica, sans-serif"/>
Font size	<input type="text" value="14"/>
Bold	<input type="text" value="Yes"/>
Show Background	<input type="text" value="Yes"/>
Background color	<input type="color" value="black"/>
Background alpha	<input type="text" value="0.667"/>
Show Border	<input type="text" value="Yes"/>
Border width	<input type="text" value="2"/>
Border color	<input type="color" value="white"/>
Round edge radius	<input type="text" value="10"/>
Text color	<input type="color" value="gray"/>
Padding (Top Right Bottom Left)	<input type="text" value="6 10 6 10"/>
Text align	<input type="text" value="Center"/>
Y offset	<input type="text" value="-5"/>

Font

Font size

Bold

Show Background

Background color

Background alpha

Show Border

Border width

Border color

Round edge radius

Text color

Padding (Top Right Bottom Left)

Text align

Y offset

Default start zoom (degree)	<input type="text" value="90"/>
Tiles path	<input type="text" value="http://www.yourcompany.com/panorama-tiles"/>
Maximum map zoom	<input type="text" value="25"/>
Panorama map icon width	<input type="text" value="12"/>
Panorama map icon height	<input type="text" value="12"/>
Timeline error message	<input type="text" value="Misconfiguration in player.xml: Start panorama \$1 must belong to start tin"/>
	<input type="button" value="Reset"/>

Default start zoom (degree)

Tiles path

The Panorama-tiles url should point to the streetviews-tiles folder uploaded to a web-server. There is no need to add a \ at the end of the url.

Maximum map zoom

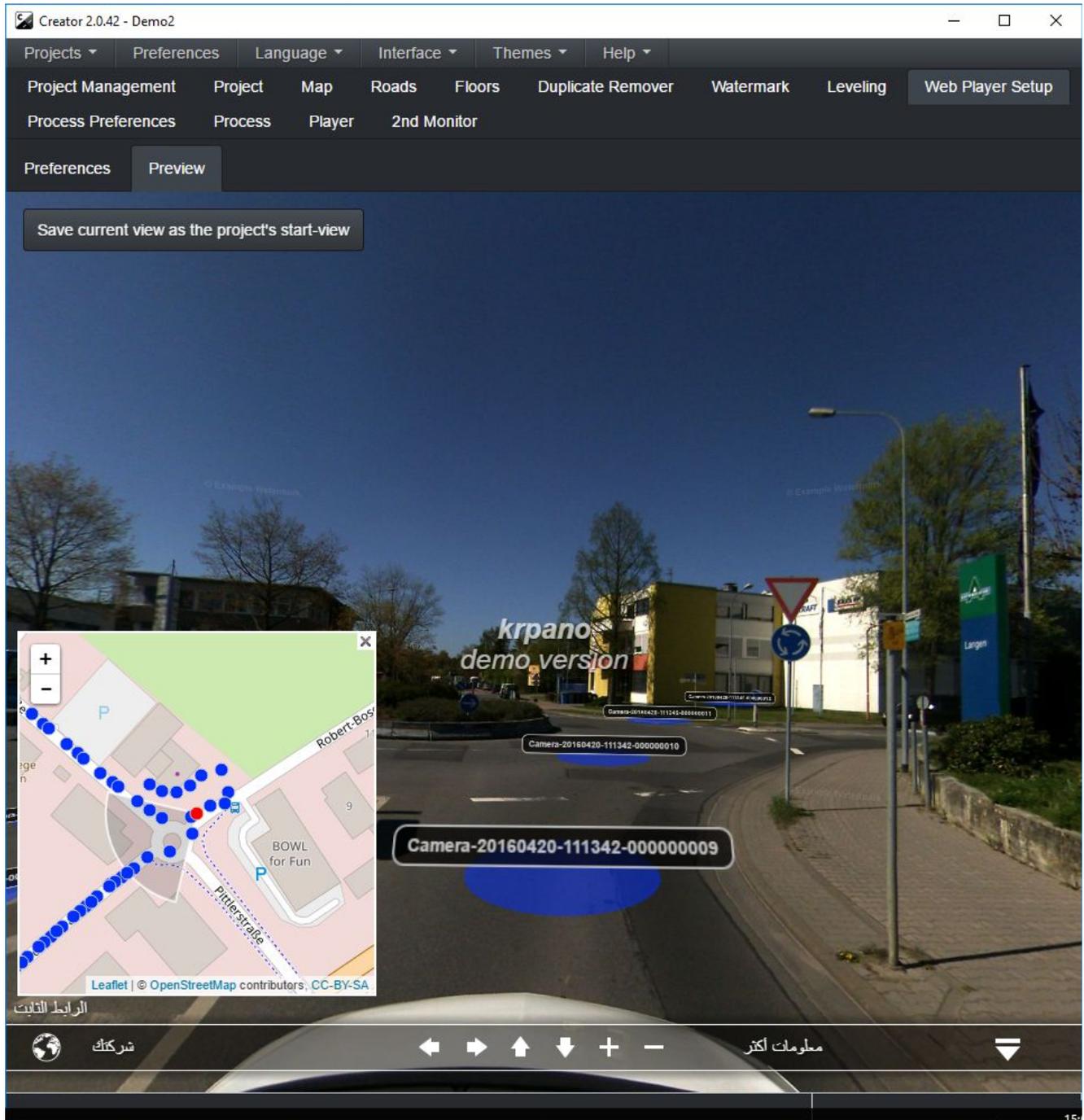
Panorama map icon width

Panorama map icon height

Timeline error message

Preview sub-tab

See a preview of what the Player and the Panorama will look like.



After adjusting the view (Start Tour, Start Pano, Start Viewing Direction, Start Zoom) click on **Save current view as the project's start-view** to make the current view the start-view of the project.

You can go back and forth between **Preferences** and **Preview** until you are happy with the resulting player.

Process Preferences

Creator 1.3.1 - Demo2

Projects ▾ Preferences Language ▾ Interface ▾ Themes ▾ Help ▾

Project Map Duplicate Remover Watermark Leveling Web Player Setup **Process Preferences** Process Player

Copyright Copyright 2017 by Your Company

Start Camera-20160420-111004 ▾ 1 First active Last active

Step. Process every x-th data-set. 1

End Camera-20160420-111342 ▾ 196 First active Last active

Number of data-sets: 378

Create project backup before starting processing

Project's Input path D:\as\Demo2

Project's Output path D:\as\out\Demo2

Panorama-tiles Output path D:\as\out\Demo2\panorama-tiles Reset

Save

Copyright

This is written into the EXIF metadata of the equirectangular .jpg streetviews that have been created.

Start, **Step** and **End** allow for quick adjustments independent of the Map tab. Very useful to create a project overview quickly.

Start

Start processing with this tour and streetview.

Step. Process every x-th data-set

For example if the total number of streetviews is 100.000 then:

Step 100 will process 1% of the active streetviews only: 1000 streetviews.

Step 1.000 will process 0.1% of the active streetviews only: 100 streetviews.

Step 10.000 will process 0.01% of the active streetviews only: 10 streetviews.

End

End processing with this tour and streetview.

Number of data sets

Calculated based on Start, Step, End and the streetviews active on the map tab only.

Already existing output and eventual **Skip** settings on the Process tab will not be considered.

Create project backup before starting processing

If ticked before processing, a backup of the project will be created in the Output path folder.

Project's Input path

Path to this project's source folder.

Project's Output path

Path to this project's output folder.

Panorama-tiles Output path

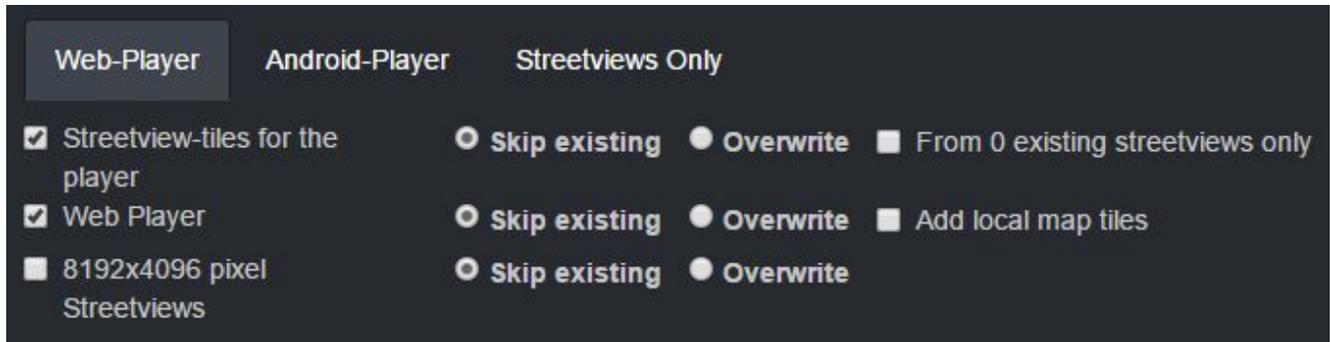
Path to the streetview-tiles output folder.

Allows you to save tiles directly to a USB-HDD for shipping to, for example, a datacenter.

Process

Web-Player

Creates a working web-player that you can install to a web-server.



From X existing streetviews only:

Do not create new streetviews. Create tiles from already existing streetviews only.

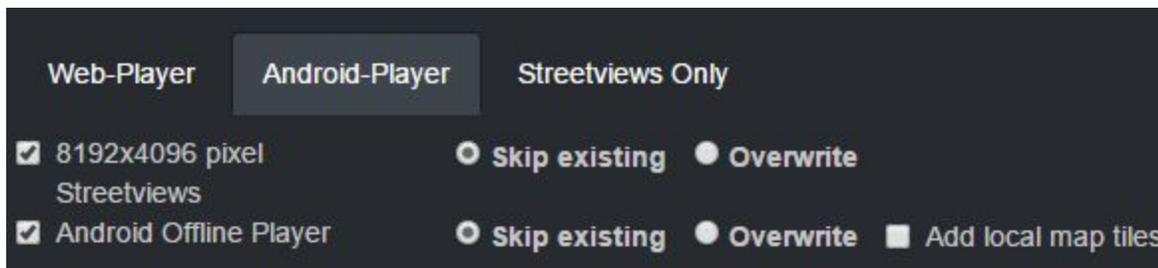
Add local map tiles:

If **custom map tiles** are set up in the map tab.

Android-Player

Generate a ZIP archive that can be opened with the Android Player App.

It works offline, without Internet connection.



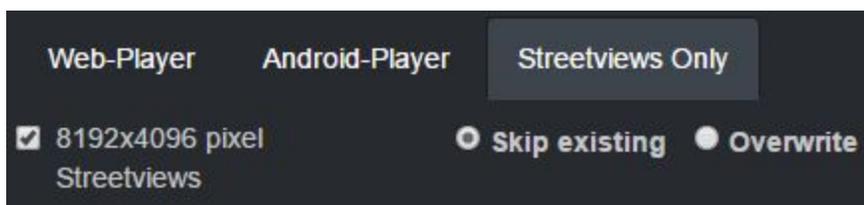
Add local map tiles:

If **custom map tiles** are set up in the map tab.

Streetviews Only

Generate 8192 x 4096 pixel Streetviews only.

Use this mode for generating streeviews for either the Photogram or your own workflow.



Process

When starting to process, a pop-up appear and will summarize the settings.
Click **Start process** or **Cancel** to make adjustments.

Open Project's output folder

Click to Open the project's output folder in the Windows Explorer.

Save this project preferences as default

Save these project preferences as a default for new projects.

Click on **Check** to open the **Preferences - For new projects** window.

Process Summary

Please deactivate the virus scanner.

An active Virus scanners can slow down the creation of panorama-tiles by up to 50%.

Number of equirectangular panorama data-sets: 368

Number of panorama-tiles data-sets: 368

Estimated processing time will be available for the next processing.

Create

Equirectangular panoramas, skip existing

Panorama-tiles for the player, skip existing

Player, skip existing

Start: 'Camera-20160420-111004' 000000001

Step: 1

End: 'Camera-20160420-111342' 000000196

Folders

Input path: D:\as\Demo2

Output path: D:\as\out\Demo2

Panorama-tiles Output path: D:\as\out\Demo2\panorama-tiles

Temp path: C:\Users\pavel\AppData\Local\creator2\tmp

Imaging

Exposure adjustment: Same for all tours: 1.5

Level: Same for all tours: yes

Leveling method: Always Global leveling

Add watermark: Yes

Add mask: No

Using Applied Streetview Processor v0.4.10.

Time adjustment: same for all tours: 2:00:00.

Leap seconds: Automatic.

Log command lines of external programs, Log terminal output of external programs,

Log process time information

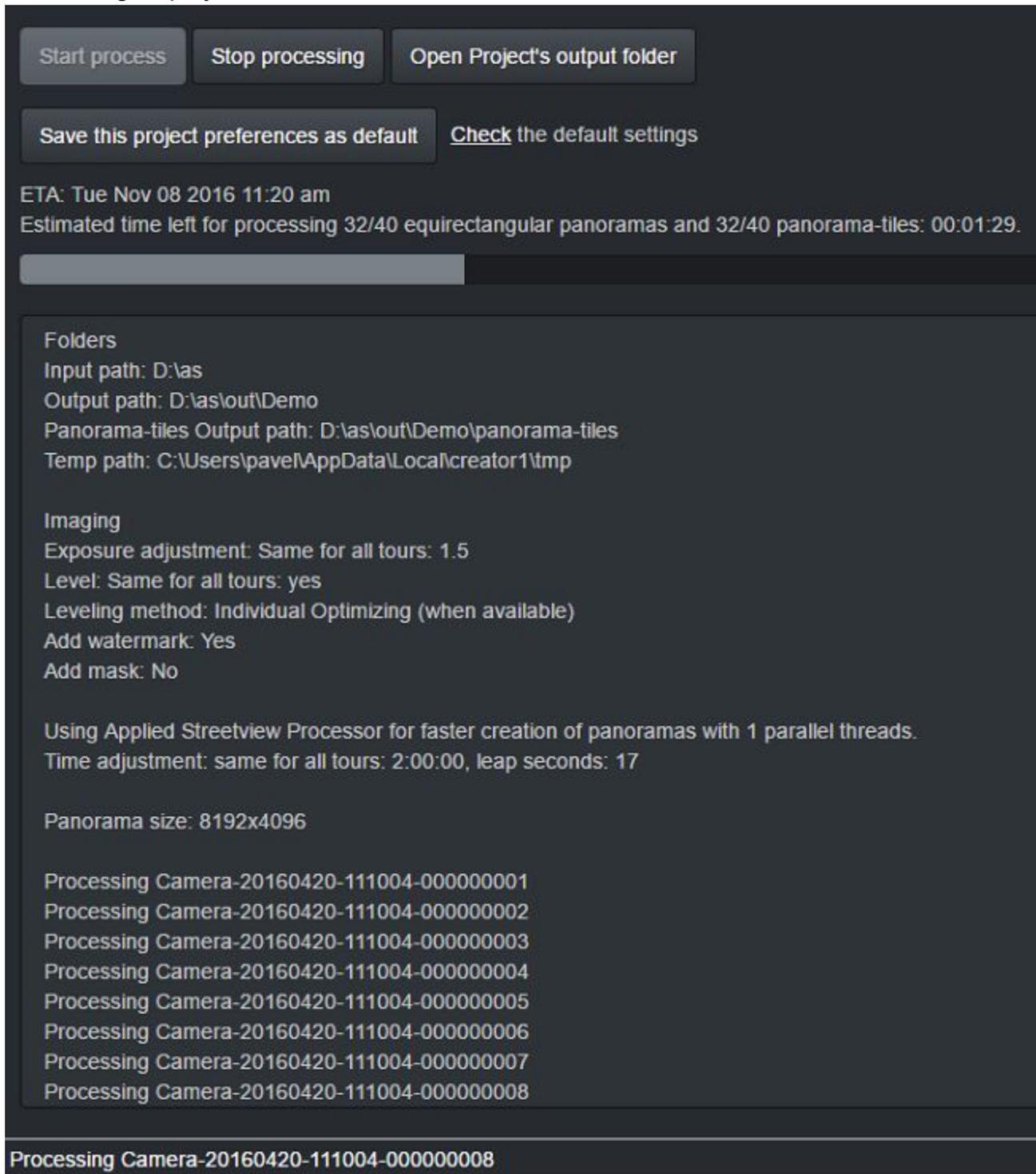
Panorama size: 8192x4096

Start process

Cancel

During processing you can click the **Stop processing** button at any time.
It might take a short time for the processing to stop, as processing is done in batches.

See the log displayed below.



The screenshot shows a software interface with a dark background. At the top, there are three buttons: "Start process", "Stop processing", and "Open Project's output folder". Below these is a "Save this project preferences as default" button and a link "Check the default settings". The interface displays the following information:

ETA: Tue Nov 08 2016 11:20 am
Estimated time left for processing 32/40 equirectangular panoramas and 32/40 panorama-tiles: 00:01:29.

A progress bar is shown below the ETA information.

Folders
Input path: D:\as
Output path: D:\as\out\Demo
Panorama-tiles Output path: D:\as\out\Demo\panorama-tiles
Temp path: C:\Users\pavel\AppData\Local\creator1\tmp

Imaging
Exposure adjustment: Same for all tours: 1.5
Level: Same for all tours: yes
Leveling method: Individual Optimizing (when available)
Add watermark: Yes
Add mask: No

Using Applied Streetview Processor for faster creation of panoramas with 1 parallel threads.
Time adjustment: same for all tours: 2:00:00, leap seconds: 17

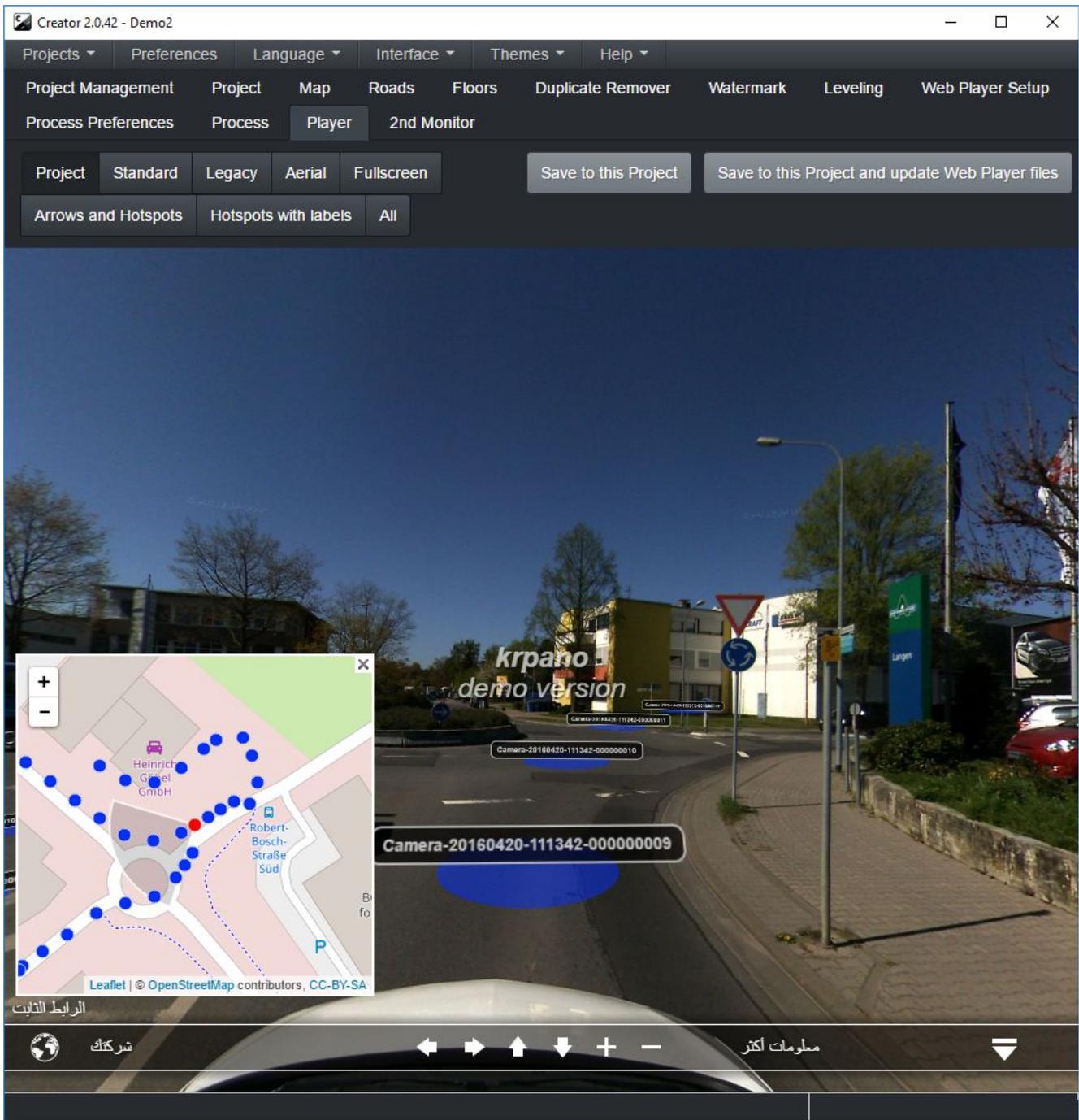
Panorama size: 8192x4096

Processing Camera-20160420-111004-000000001
Processing Camera-20160420-111004-000000002
Processing Camera-20160420-111004-000000003
Processing Camera-20160420-111004-000000004
Processing Camera-20160420-111004-000000005
Processing Camera-20160420-111004-000000006
Processing Camera-20160420-111004-000000007
Processing Camera-20160420-111004-000000008

Processing Camera-20160420-111004-000000008

Player

When the processing has finished, open the Player tab to see the fully functioning player:



You can easily check what the player would look like using the **Standard**, **Legacy**, **Aerial Fullscreen**, **Arrows and Hotspots**, **Hotspots with labels**, **All** layouts:

Click **Save to this Project** to save the current Layout of your project.

Please note that you will then need to re-create the Web Player on the Process tab.
Set **Web Player** to **Overwrite**.

Layouts:

Project

Show the project according to its settings.

Legacy

Navigation mode - Arrows
Base Layer - OpenStreetMap.Mapnik
Map - Visible
Permalink - Visible
Menu - Visible
Show Arrow label - Mouse
Show Hotspot label - None

Standard

Navigation mode - Hotspots
Base Layer - OpenStreetMap.Mapnik
Map - Visible
Permalink - Visible
Menu - Visible
Show Arrow label - Mouse
Show Hotspot label - None

Aerial

Navigation mode - Hotspots
Base Layer - HERE.satelliteDay
Map - Visible
Permalink - Visible
Menu - Visible
Show Arrow label - Mouse
Show Hotspot label - None

Fullscreen

Navigation mode - Hotspots
Base Layer - OpenStreetMap.Mapnik
Map - Hidden
Permalink - Hidden
Menu - Hidden
Show Arrow label - Mouse
Show Hotspot label - None

Arrows and Hotspots

Navigation mode - Arrows and Hotspots
Base Layer - OpenStreetMap.Mapnik
Map - Visible
Permalink - Visible
Menu - Visible
Show Arrow label - Mouse
Show Hotspot label - None

Hotspots with labels

Navigation mode - Arrows and Hotspots
Base Layer - OpenStreetMap.Mapnik
Map - Visible
Permalink - Visible
Menu - Visible
Show Arrow label - Mouse
Show Hotspot label - Always

All

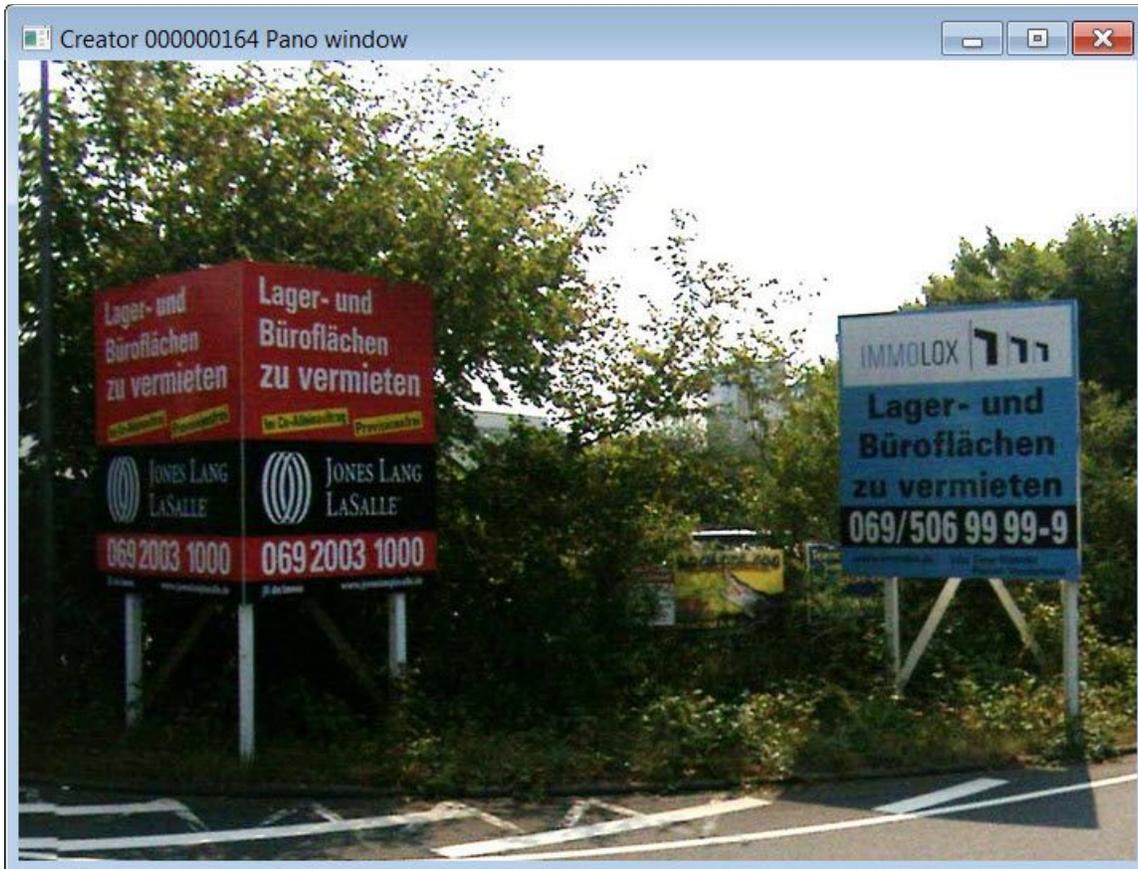
Navigation mode - Arrows and Hotspots
Base Layer - HERE.satelliteDay
Map - Visible
Permalink - Visible
Menu - Visible
Show Arrow label - Mouse
Show Hotspot label - Always

Save to this Project

Save the current Layout as the Web Player preferences for this project.

Pano Window

A second monitor is recommended for this feature.

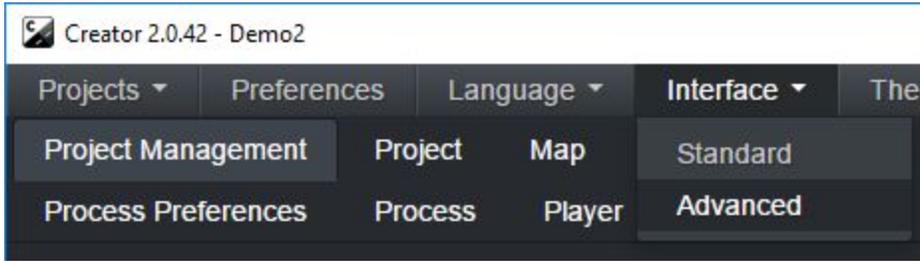


Shows the streetviews. You can zoom in and out on them.

Great to move streetviews manually on the Map tab.

If the streetview has already been processed, it will be displayed right away.
If not, it will be processed and displayed.

Advanced Features



Timeline

Record the same road or area multiple times to document change.

It looks like this:

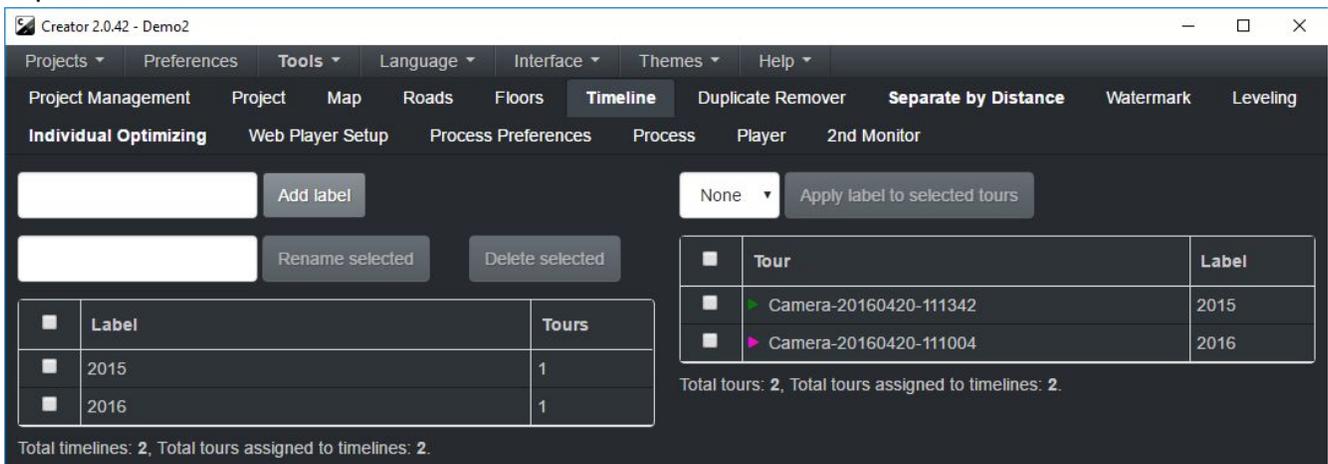
<http://players.applied-streetview.com/Timeline/>

Create a few timeline labels, such as **Before** and **After** or dates like **2015** or **2016**. Assign one or many tours to each timeline label.

The user will then be able to pick the labels in the player.

Example: <http://players.applied-streetview.com/Timeline/>

After assigning all tours to timeline labels you can use the Duplicate Remover to sort out duplicates in each timeline.



Labels table

Add label button

Enter the timeline label into the text box to the left of the button, then click the button.

Rename selected button

Click on the checkbox next to the timeline that needs to be renamed, then enter the new timeline label into the text box to the left of the button and click the button.

Delete selected button

Click on the checkbox next to the timeline that needs to be deleted, then click the button. Note that multiple timelines can be selected at once.

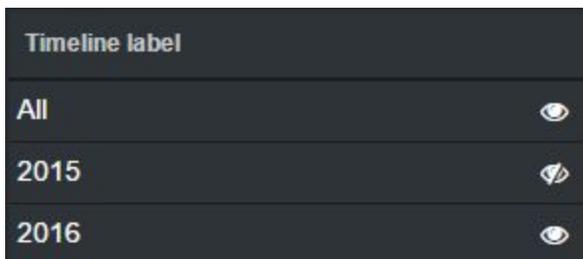
Tours table

Apply label to selected tours button

In the drop down list to the left of the button, select the timeline to which the tours will be assigned to, select the tours by clicking on the checkboxes next to them, then click the button to assign them tours to the selected timeline.

To remove a tour from a timeline label select **None** in the drop down list.

Timeline list (Map tab)



Click a timeline label to zoom in on it.

Click a timeline eye icon to toggle visibility.

In this example, the 2016 timeline has been hidden.

Hiding timelines is great when used with the **Ctrl+A** key-combination that selects streetviews in all visible timelines.

Note that this list is displayed only when at least one tour is assigned to a timeline.

Separate by Distance

To convert tours recorded in **Interval Mode** to **Distance Mode** recordings. This greatly reduces the number of streetviews to process.

Options:

Minimum distance between streetviews:

About the same as the distance when recording with Distance Mode.

Process selected timelines:

(Visible only when there are timelines)

Process only selected timelines.

Press **CTRL** and then click on a timeline to select multiple timelines.

Process selected tours:

Process only tours selected from the list.

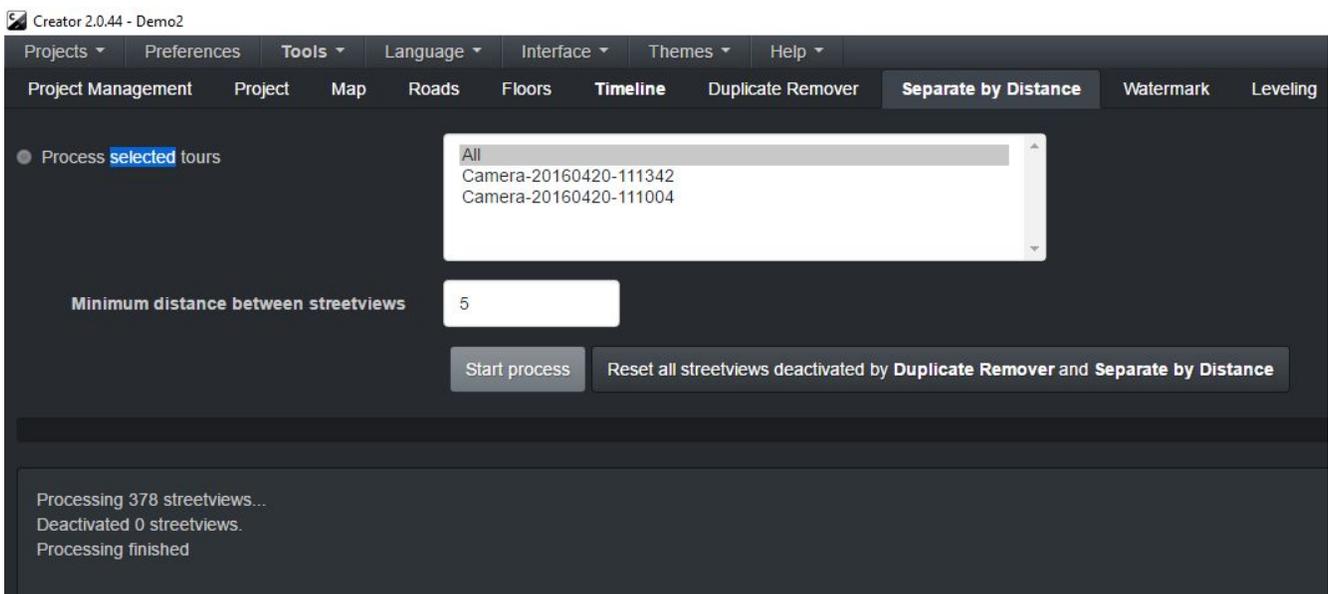
Press **CTRL** and then click on a tour to select multiple tours.

Start process

Start processing

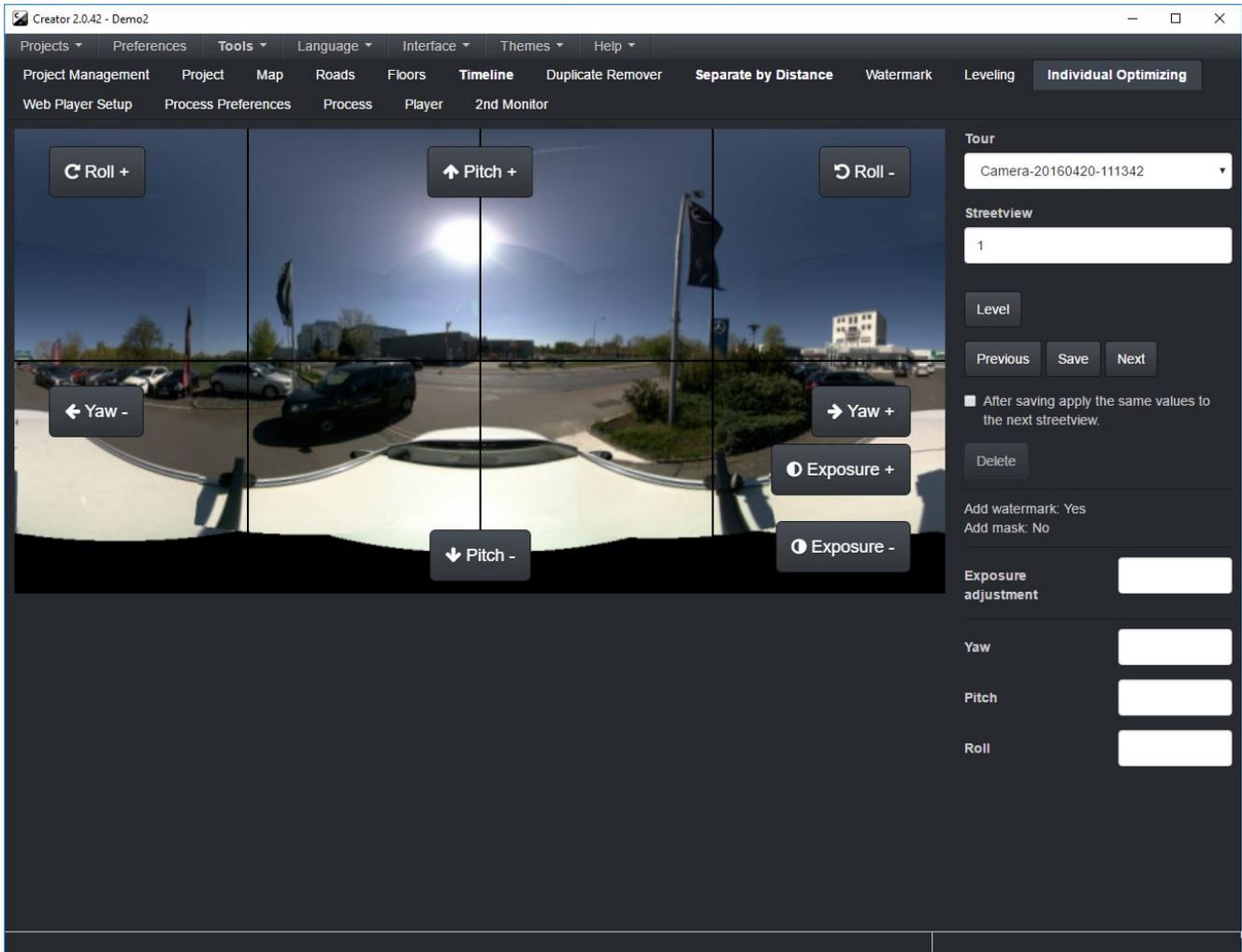
Reset all streetviews

Reset all streetviews deactivated by **Duplicate Remover** and **Separate by Distance**



Individual Optimizing

Adjust for camera and leveling sensor setup individually for specific streetviews.



The adjustment is the same as in the [Leveling tab](#), so read the section about the [Leveling tab](#) first.

Previous

Go to the previous streetview. Does **not** save anything.

Save

Save the individual adjustment options (Exposure Adjustment, Yaw, Pitch, Roll) to the current streetview. Load the next streetview and apply the same values.

Next

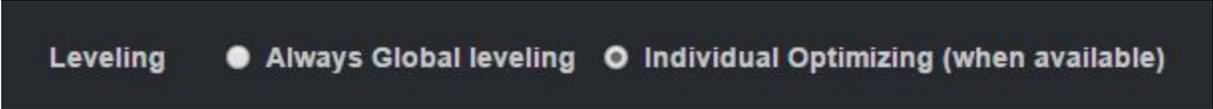
Go to the next streetview. Does **not** save anything.

After saving, apply the same values to the next streetview.

Delete

Delete the individual adjustment options (Exposure Adjustment, Yaw, Pitch, Roll) for the current streetview.

On the **Processing Preferences** tab, check that **Leveling** is set to **Individual Optimizing (when available)**.



A dark grey horizontal bar containing three radio button options for leveling. The first option is 'Leveling' with a radio button. The second option is 'Always Global leveling' with a radio button. The third option is 'Individual Optimizing (when available)' with a radio button.

Then start processing.

Map-tiles

There are many ways to get map-tiles suitable for the Creator App.

As an example for the format we provide the “Langen2” map tiles as a .zip file for you:

<http://updates.applied-streetview.com/Remote-Control/Langen-OSM.zip> (1.1 MB)

Map tiles format info:

http://wiki.openstreetmap.org/wiki/Slippy_map_tilenames

Download using JTileDownloader

For small areas you could just download the map-tiles.

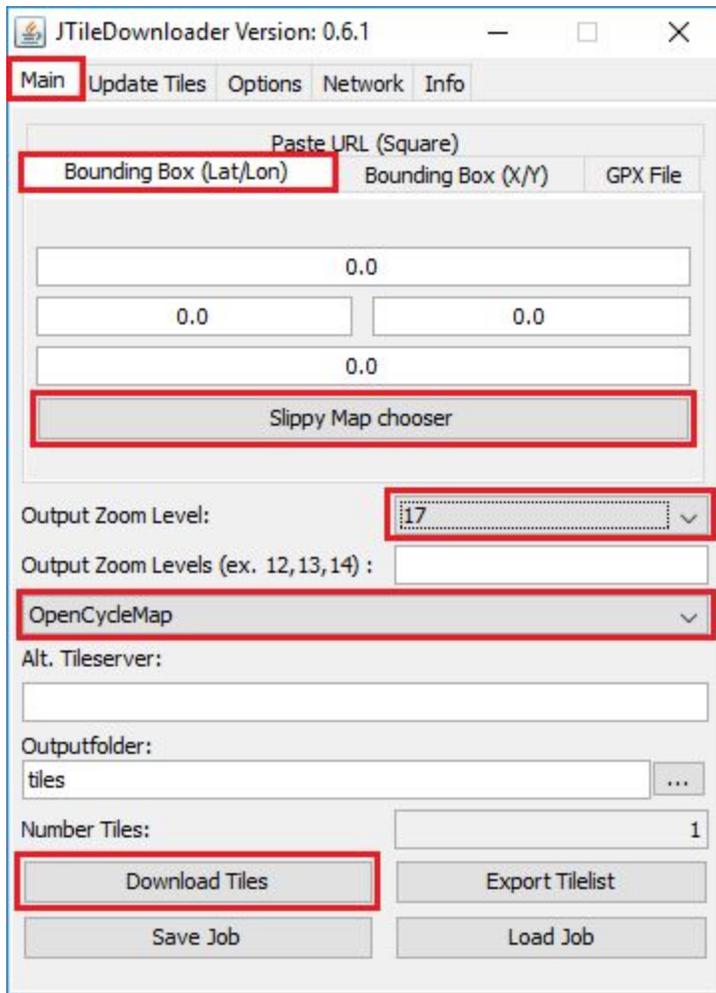
One of the programs suitable for downloading map tiles is

JTileDownloader

<http://wiki.openstreetmap.org/wiki/JTileDownloader>

Use it with a Windows PC, not the tablet!

It is recommended to remove the microSD card from the tablet, then connect it to the PC using a USB 3.0 card reader and the included microSD to SD-card adapter.



Go to **Main - Bounding Box (Lat/Lon)** and click on **Slippy Map chooser**. This will open a new window and you will be able to choose the area for download.

Choose the **Tile Provider**. Consider OpenCycleMap, since the other tile providers tend not to work.

Consider saving it directly to the microSD card.

At least one zoom level is needed, zoom level 17 works well for recording by car.

Choose the **Output folder** to download the map tiles, preferably a new folder, named e.g. "Town-name".

Afterwards, insert the microSD card back into the tablet then use the map tiles directly from the microSD card.

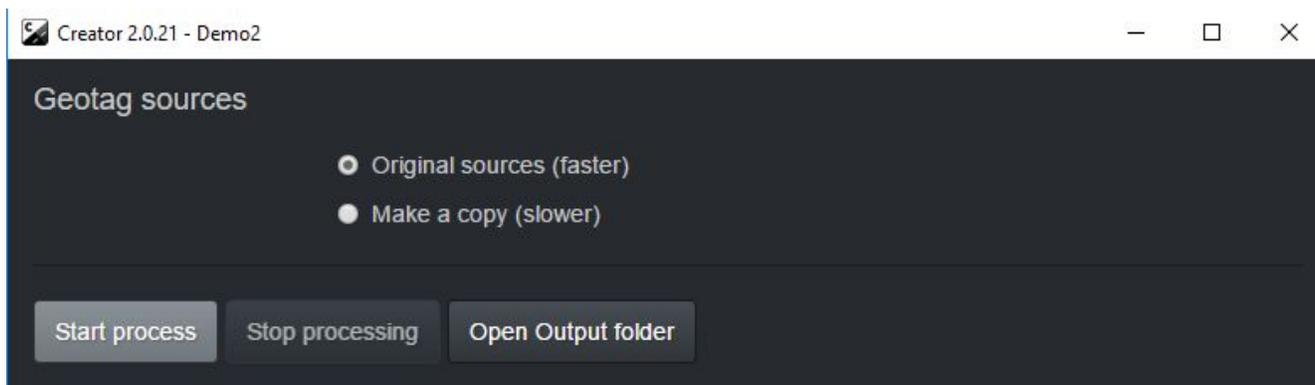
Do not copy the map-tiles to the tablet.

Tools

Geotag sources

Geotag source images.

In case you want to process the source images with a totally different software.



Original sources (faster)

Modify EXIF data of the original images

Make a copy (slower)

Copy images to **Output folder** and then modify EXIF data of the original images

Output folder

Set the output folder.

Click the **Start process** button.

The current project source images will be copied to output folder.

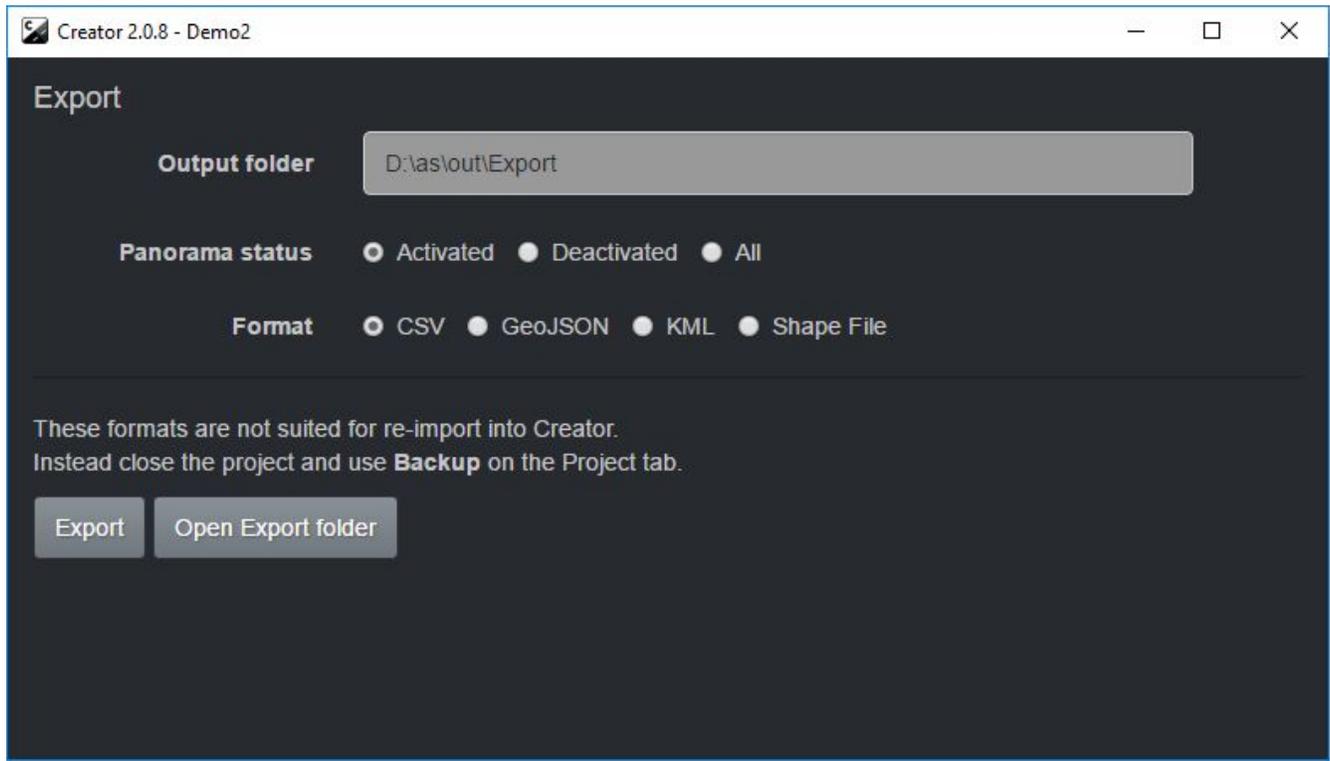
The following EXIF data will be added:

- Orientation
- DateTimeOriginal
- GPS:GPSDateStamp
- GPS:GPSTimeStamp
- GPS:GPSLatitude
- GPS:GPSLatitudeRef
- GPS:GPSLongitude
- GPS:GPSLongitudeRef
- GPS:GPSAltitude
- GPS:GPSAltitudeRef
- GPS:GPSImgDirection
- GPS:GPSImgDirectionRef
- Orientation
- FocalLength
- FNumber
- Make

- Model
- SerialNumber
- FocalPlaneXResolution
- FocalPlaneYResolution
- FocalPlaneResolutionUnit

Export

Export the Creator data to use with a 3rd-party program.



Output folder

Where to save the exported data to.

Panorama status

Choose the status of exported streetviews: Activated (Default), Deactivated, All.

Format

Choose export format: CSV, GeoJSON, KML, Shape File

Click **Export** button to export the data.

Click **Open Export folder** to open the **Output Folder** in Explorer.

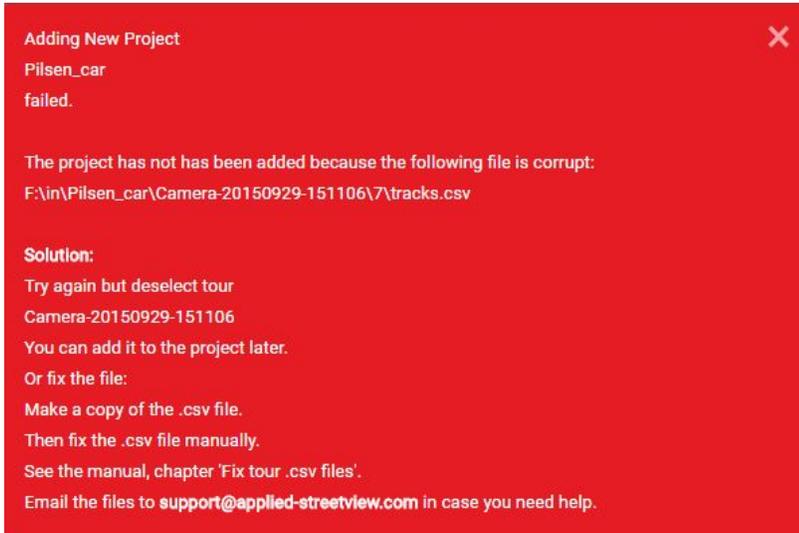
WARNING:

**These formats are NOT suited for re-import into Creator.
Instead, close the project and use the Backup on the Project tab.**

Fix a Tours .csv files

Tour log-data is saved to the panoramas.csv and tracks.csv files in folder 7. In case these files are corrupt, Creator will refuse to add the project.

Instead this pop-up will be displayed:



Simply add the Project again, but this time **deselect the corrupt tour**.

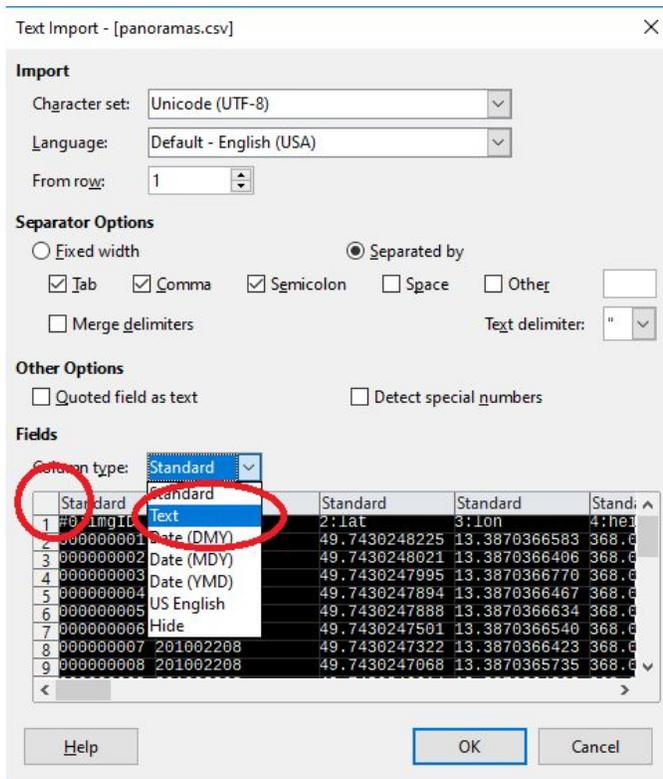
This allows you to continue your work with the remaining tours of the project. The missing tour can be added to the project after it has been fixed.

Manually fixing the corrupted .csv file(s) is the next step, then you can add the skipped tour.

We recommend the free [Libre Office](#) Calc program for this.

First make a backup copy of the file you are going to edit.

When opening the .csv file with Libre Office Calc make sure to select all columns and set them to **Text**. This ensures no automatic formatting changes the values.



Afterwards scroll through the data, find the problem line and edit it to look like all other lines.

For panoramas.csv the numbers in #0:imgID must be in sequence.
Duplicate entries in #0:imgID are not allowed.
Empty lines are not allowed.

Save the file and add the tour to your project:

Open the project in Creator.

On the **Project** page press the **Add tours to project** button to add the fixed tour.

Install the player to a web-server

There are 3 components:

The player, the MySQL database and the streetview tiles folder.

For production, you should install the player and the MySQL database to the same server, and the streetview tiles to a different server, or a cloud.

For testing you can install all three to the same server.

MySQL database

Create a new MySQL database.

Import the **projectname/player/demo.sql.zip** file to it.

Panorama Tiles

Copy the **projectname/streetview-tiles** folder to the web-server or a cloud.

Player

Adjust the

projectname\player\plugins\streetview\ajax\db.php

file for the database access.

Adjust the

projectname/player/player.xml

file for the streetview tiles.

Edit the **tilespath** variable to point to the streetview-tiles folders URL.

Example:

`tilespath="http://www.yourcompany.com/projectname/streetview-tiles"`

Copy the **projectname/player** folder to the Apache web-server.

More Info on the Player:

http://updates.applied-streetview.com/player/Player_Quick_Installation_Manual.pdf

Embed the player into any page

It looks like on our website:

<http://www.applied-streetview.com>

First install the player as usual.

For this example, the player is installed to the folder

<http://www.your-server.com/players/Demo/>

In your page, add this code:

```
<div id="demo"></div>
<script src="http://www.your-server.com/players/Demo/player.js"></script>
<div id="player" style="width: 100%; height: 700px;">
<script>
var settings = {};
settings.files_path = "http://www.your-server.com/players/Demo/";
settings.auth_enabled = +"0";
settings.permalink_anchor = "demo";
embedpano({swf: settings.files_path + "player.swf", xml: settings.files_path + "player.xml", target:"player",
html5:"prefer", vars: settings, passQueryParameters:true});
</script>
</div>
```

Adjust the URL.

You will need to remove the line breaks from the code above for it to work.

Remove the 'krpano demo version' logo

What it looks like:



The **krpano demo version** watermark is visible in the:

- Web Player Preview sub-tab
- Player tab
- All generated Players

Get a krpano license for 129 Euro from <http://www.krpano.com/buy>

Then go to **Menu - krpano - Add activation key**. Paste your key into the field and click **Add**. If the key is valid you should see a confirmation message that the key is registered. **Restart Creator**.

In **Menu - krpano - License details** you can check your krpano activation key details:

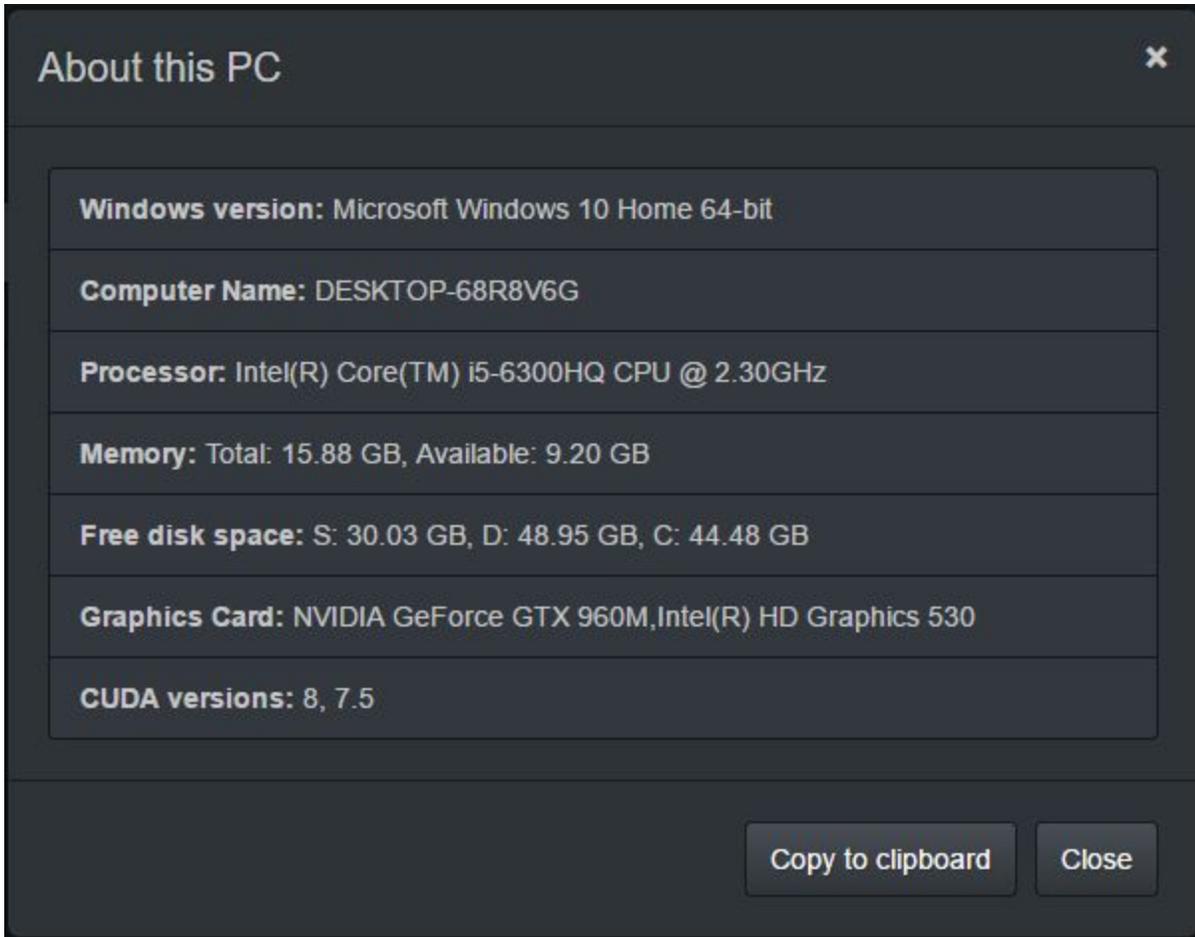
krpano - License details

Name: Applied Streetview
Email: jan.mantkowski@streetview-technology.de
Order date: 2015-02-19
Contact: Jan Mantkowski
Address: Pittlerstraße 53, 63225 Langen, Germany

Obviously you will see your own license information, the above is just an example.

Help

Help - About this PC



Click on **Menu - Help - About this PC** to display helpful information like Windows version, Computer Name, Processor, Memory, Free disk space, Graphics Card, CUDA versions, etc.

Click on **Copy to clipboard** to copy the information about this PC to the clipboard, then save it elsewhere..

Preferences

Menu - Preferences

- For all projects

Graphics Card

Folders

Map

Expert Mode

Troubleshooting

- For new projects

Map

Duplicate Remover

Watermark

Leveling

Player

Imaging

Process

New projects get their default values from the **For new projects** preferences. You can then make project-specific changes in the project tabs.

Reset all preferences

Reset all preferences for new and all projects to their defaults.

Menu - Preferences - For all projects - Graphics Card

Graphics Card found

Graphics cards found in the system.

Applied Streetview Processor

For fastest processing.

A NVIDIA graphics card is needed. We recommend: NVIDIA GTX 1080 with 8GB VRAM. Legacy graphic cards with 4GB VRAM that are known to work: NVIDIA GTX 960, 960M, 965M, 970, 980.

AS-stitcher for stitching - Batch size

How many data-sets to pass to AS-stitcher for processing at one time.

AS-tiler for tiles creation - Batch size

How many data-sets to pass to AS-stitcher for processing at one time.

Legacy solution

Works with and without a graphics card, many graphics cards should be supported. The Legacy solution for streetview-tiles creation needs a krpano licence.

Enable graphics card

Speed up the processing by enabling the use of a graphics card, many graphics cards should be supported.

Parallel processes

How many datasets to process in parallel. Should be set automatically to the number of CPU threads - 1. Check and adjust if necessary.

Menu - Preferences - For all projects - Folders

Input path

At this location the Creator looks for the project source folder, when creating a new project. You can switch it to any other location.

Output path

At this location the Creator automatically creates a project folder with the same name as the project.

Then the sub-folders for the data are created: streetviews, streetview-tiles, player, map-tiles.

PTO path

All of the cameras **.pto** files should be copied to this location.

Temp path

For temporary files. To improve speed in legacy mode the path should be on a SSD or RAM-disk.

Menu - Preferences - For all projects - Map

Zoom level to load all data-points

At this level all the data-sets are displayed on the map.

Contents of pop-up

Left list contains all the available fields, the list to the right contains the list of fields that are displayed in the popup.

To add a value from the left list to the right list, click on an item in the left list then click > button. To remove a value from the left list, click on an item in the right list then click < button. Click on >> button to move all the items from the left list to the right list.

Click on << button to move all the items from the right list to the left list.

Click the **Up** or **Down** buttons to change the order of items displayed in the pop-up.

Menu - Preferences - For all projects - Expert Mode

Only use these options when the Applied Streetview support asks you to.

Do not delete temporary files

Skip vig_optimize program and exposure adjustment

In legacy mode skip the vig_optimize and exposure adjustment steps.

Log command lines of external programs

Log terminal output of external programs

Log process time information

In legacy mode log information about each processing step.

AS-stitcher CUDA 8 options

Additional command line arguments to pass to as-stitcher8.exe

AS-tiler options

Additional command line arguments to pass to as-tiler.exe

Menu - Preferences - For all projects - Troubleshooting

Fix Camera accidentally mounted looking backwards. Click again to undo.

Show Tracks in the Map tab. Enabling this feature may slow down or crash Creator.

Show Tracks in the Map tab. Enabling this feature may slow down or crash Creator.

When moving panoramas on the map, do not move Tracks data. This stops the Duplicate Remover from working properly later.

When moving streetviews on the map, do not move Tracks data. This will stop the Duplicate Remover from working properly later on.

After this feature is enabled, in the Map tab the tours list will have an additional column “tracks” to control track visibility. It is recommended to enable this feature on a larger zoom level, 16 and up.

Check and deactivate all data-sets with missing .jpg files when processing

Check ALL data-sets now This might take a while.

Check and deactivate all data-sets with missing .jpg files when processing.

Click on **Check ALL data-sets now** to check now.

If images are missing for any reason, this will deactivate the affected data-sets to ensure the remaining data processes well.

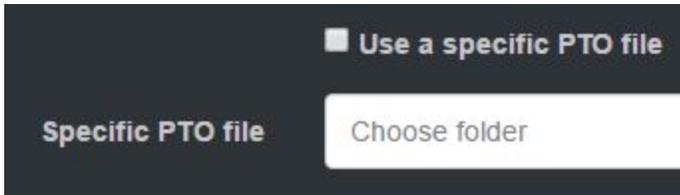
Check and rotate all the data-sets with incorrect rotation when processing

Check ALL data-sets now This might take a while.

Check and rotate all the data-sets with incorrect rotation when processing.

Click on **Check ALL data-sets now** to check now.

Sometimes users have a look at the source images and rotate them upright for a better view. Unfortunately some programs save these rotated source images without warning. This feature rotates the source images back to ensure that the data processes well.



Use a specific PTO file

By default, the .pto files name is taken from streetviews.csv 1:CamSN field.

This option allows you to override this functionality and always use a specific .pto file.

Menu - Preferences - For new projects - Map

Duplicate Remover overruled by

- Manual activations - streetviews activated manually will override values set by duplicate remover.
- Manual deactivations - streetviews deactivated manually will override values set by duplicate remover.

Default Base Layer

Menu - Preferences - For new projects - Duplicate Remover

Default preferences for the [Duplicate Remover](#) tab.

Menu - Preferences - For new projects - Watermark

Default preferences for the [Watermark](#) tab.

Menu - Preferences - For new projects - Leveling

Default start streetview

Exposure adjustment

Default is 1.5. This makes all the images a bit brighter than the source images. If you want no change, set it to 0.

Level

Yes: The most commonly used set-up.

Level with the log value and the values from the Adjust tab.

No: No leveling at all.

Adjust: Use values from the Adjust tab only. Ignore the log data.

Menu - Preferences - For new projects - Player

Default preferences for the [Player Preferences](#) tab.

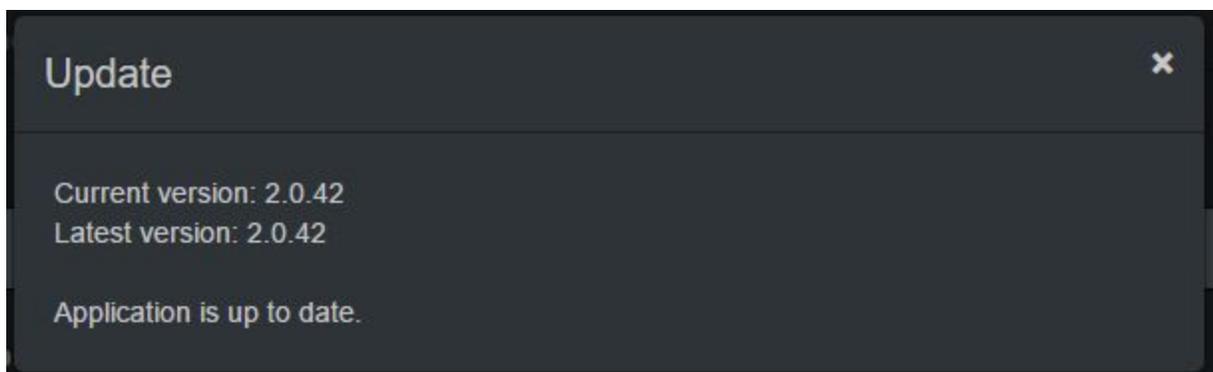
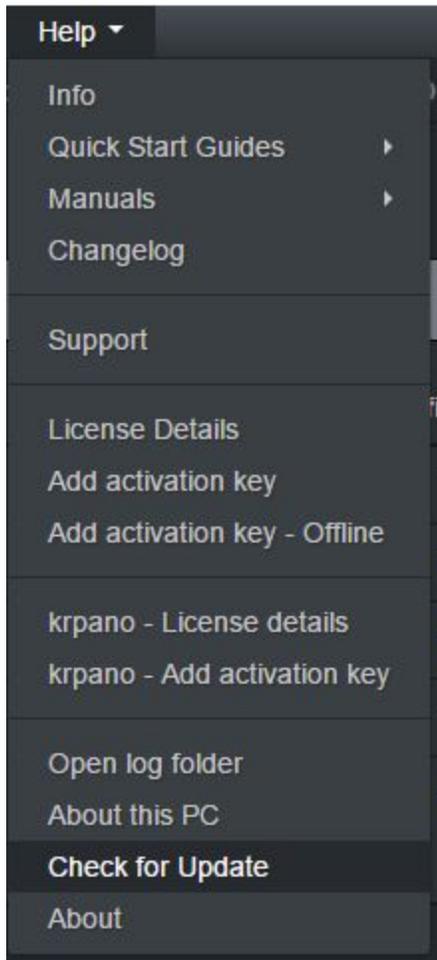
Menu - Preferences - For new projects - Process

Default preferences for the [Process Preferences](#) tab.

Support

Please check for a new Creator version first:

Menu -> Help -> Check for Update.



Support is provided for the newest Creator version only.

Support is available in **English language** only.

To report an error, please use this form:

Menu → Help → Support

You can **enter text** and **attach files**.

The log-file is automatically attached.

You can attach extra screenshots.

Contact

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E-Mail: support@applied-streetview.com

Skype ID: applied-streetview

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