# Street Ortho

## Orthophotos from Cycloramas & LiDAR data

Orthophotos are true-to-scale images of the earth's surface and are usually derived from aerial or satellite images. Cyclomedia, on the other hand, uses 3D Cycloramas as a basis - high-resolution, three-dimensional 360° panoramic images - and LiDAR data. Street Ortho is high-resolution and also has another major advantage over conventionally generated ortho images: treetops, protruding roofs and other objects that block the view can be removed from the view. An unrestricted, detailed view of the street space is possible.

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**Street Ortho from Cyclomedia enables you to digitally visualize the surroundings from the orthogonal view quickly and without obstructions from objects. Regardless of whether it is mapping entire areas or updating map data for a small area - Street Ortho offers you the opportunity to implement these tasks with high precision.**

## The levels in Street Ortho

Street Ortho classifies three layers of height in the images, which are colored differently:

- Base level (street level)
  - 0,0 - 0,3 m height, in RGB colors
- Elevation levels (objects above street level):
  - 0,3 - 3,0 m height, point cloud in red
  - 3,0 m and higher, point cloud in green

The individual height levels can be switched on and off in the view as required. This enables an unrestricted view of the road surface, for example, under bridges or trees.

## High resolution

The resolution of Street Ortho and conventional orthophotos in comparison:

## 3D-Cycloramas as a prerequisite for Street Ortho

A prerequisite is the systematic and comprehensive recording of the street space in your city / your supply area. Both 360° panoramic images and LiDAR data are generated, which combine to produce our so-called 3D-Cycloramas. These, as well as the LiDAR data itself, serve as the basis for Street Ortho. Street Ortho is accessible via the Street Smart software. You can use Street Smart functionalities in the images, such as taking measurements or showing layers. Street Ortho also serves as the basis for digital area mapping in your traffic area!

**Real Data. True Understanding. Big Impact.**

## Advantages

- Clear view on the streets
- Automatic classification of 3 levels
- Higher resolution than conventional orthophotos
- Applicable Street Smart functionalities in Street Ortho
- Suitable for area mapping and comparison of cadastral data

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