



Starterskit: Stereo image Quality References (4cm)

This document contains imagery references that can be used as examples of the ICC quality requirements in the tender document. These images are examples of the received **stereo** product with a **4cm resolution**. Thus, these images are to be used as examples for **Parcel 1, 2 and 4**. For parcel 3 (8,5cm resolution) the same examples are used with the comment that sharpness and details are of a slightly lower level. The scope of these 4-cm examples naturally also applies to the 8.5 cm images.

The requirements as given in the tender document are:

- The visual quality of the stereo photos must be sufficient to perform stereo mapping that fulfils the requirements of the BGT and can be used to produce ortho photo products that fulfil the minimum requirements.
- The radiometric quality must fulfil the following minimum requirements:
 - *Sharpness*: in the images from Parcel 1,2 and 4, the type of street surface (such as paving tiles) must be clearly recognisable and distinguishable and the locations of building footprints must be clearly identifiable. In the images from parcel 3 the type of street surface will be a bit less sharp, the locations of building footprints should be as distinguishable as possible;
 - *Visibility in shadow areas and light areas*: Topographic details in shadow areas (including individual buildings and blocks of buildings in streets) and light areas (including newly build areas where a lot of sand is present and on the beach) must be clearly visible. This requirement is fulfilled if the footprints of buildings and other objects are clearly recognisable and distinguishable.
 - *Lighting/Colour*: Over- or under- exposure must not be visible in the images. Colour effects such as reflections should be minimised as far as possible.

The samples included below are examples of images with feedback from the ICC on the following issues:

- Accepted sunlit image;
- Accepted overcast image;
- Very low visibility in dark shadows;
- Rejected image due to blurring;
- Haze.



Image Reference 1

Accepted sunlit image.

Note:

- Minimal effect of shadows;
- Visibility of small tiles (to a lesser extent for the case in parcel 3).;
- No bright/blooming effect of white objects.



Image Reference 2

Accepted overcast image.

Note:

- Clarity in the shadows;
- Visibility of small tiles (to a lesser extent for the case in parcel 3).;
- No pixilation due to darker conditions;
- Homogenous colouration.



Image Reference 3

Sample of image to be discussed regarding the very low visibility in dark shadows.

Note:

- Nearly not possible to see objects in the shadows;
- Cannot determine boundaries of garden;
- Sharpness is good.



Image Reference 4

Rejected image due to blurring.

Note:

- Road tiles are not visible;
- Edges of buildings are not clear;
- Cannot accurately identify building footprints.



Image Reference 5

Sample of image to be discussed regarding haze.

Note:

- Haze causes pixelated effect across image;
- Bright conditions causes overexposure of white objects;
- Edges of smaller features are unclear.