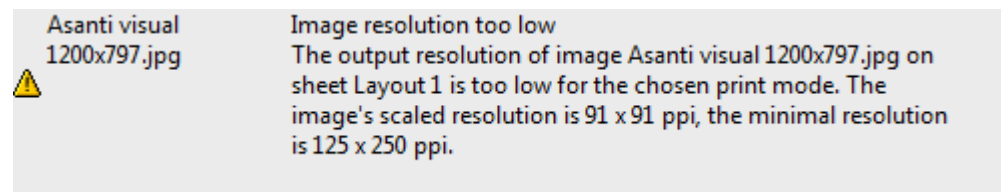


# The image resolution check

This document describes the Asanti Layout Editors Image Resolution check behaviour.

## 1. The resolution check


The resolution check verifies whether the image's actual output resolution is large enough to guarantee a recommended image quality.

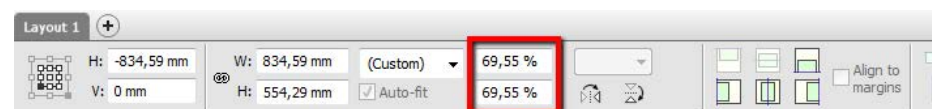


## 2. The image's actual output resolution

Since upscaling images is an often-used technique in large-format printing, the layout editor will take the scaling of the image into account. As an example, an image with a resolution of 100 ppi which is scaled 200% will become 50 ppi while when scaled to 50% it will become 200 ppi.

Original image resolution (ppi)	Scaling factor (%)	Image scaled resolution (ppi)
• 12 x 12	50	24 x 24
• 12 x 12	200	6 x 6
• 150 x 150	50	300 x 300
• 150 x 150	200	75 x 75
• 250 x 250	50	500 x 500
• 250 x 250	200	125 x 125

You can verify the image's actual scale factor in the Positioning Toolbar when you selecting the image. You can select the image when you move the cursor over the image and click on the  icon. The image is now selected which is indicated by the brown border and handles.



### 3. The recommended image visual quality

The required image quality depends on the product that is made.

As an example, images for billboards can be as low as 12 ppi; 150 ppi is usually sufficient for not-too close viewing; photo quality images or line art that are viewed from a close distance might need 250 ppi or higher.

To avoid too many dependencies, the Layout Editor will define the minimum recommended image visual quality from the resolution at which the image is printed by simply dividing the output resolution (largest value) by a Quality factor (5,75).

Printer resolution (dpi)	Minimum recommended image quality (ppi)	Printer resolution (dpi)	Minimum recommended image quality (ppi)
• 360 x 360	62 x 62	• 480 x 1200	83 x 208
• 720 x 360	125 x 62	• 576 x 1200	100 x 208
• 720 x 720	125 x 125	• 672 x 1200	116 x 208
• 1440 x 720	250 x 125	• 540 x 1200	93 x 208
• 1440 x 1440	250 x 250	• 630 x 1200	109 x 208
		• 720 x 1200	125 x 208

### 4. On the fly resolution check

The resolution check is executed whenever you:

- place an image on a sheet
- resize a placed image
- change the printer or any settings that change the printer's output resolution

The Layout Editor will check if the image's actual output resolution is lower as the minimum recommended image quality. A warning is posted next to the image in the image panel and in the Snag List.

