Application Note:

Decimation
Decimation (also known as sub-sampling) is the process of skipping neighboring pixels (with the same color) while being read out from the CCD chip.

**Note** Decimation is available for Manta b/w and color cameras. (Firmware 1.44 or greater). Manta G-032 and Manta dual-tap cameras don’t have decimation.

**Description of decimation**
Decimation is used primarily for the following reason:
- A reduction in the number of pixels and thus the amount of data while retaining the original image area angle and image brightness.
- Similar to binning mode the cameras support horizontal, vertical and H+V decimation mode.

**Horizontal decimation modes**
The different decimation patterns are shown below.

**Monochrome**

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**Color**

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**Note** The image appears horizontally compressed in this mode and no longer exhibits a true aspect ratio.
**Vertical decimation modes**

The different decimation patterns are shown below.

![Vertical decimation modes](image)

**Note**

The image appears vertically compressed in this mode and no longer exhibits a true aspect ratio.

**H+V decimation modes**

The different decimation patterns are shown below.

![H+V decimation modes](image)
For technical support, please contact support@alliedvisiontec.com.
For comments or suggestions regarding this document, please contact info@alliedvisiontec.com.

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