

Enhancement of Interest (EOIs) Regions

Reduce Image Data & Enhance Performance

See the section Flat Field Category in Appendix A for GenICam features associated with this section and how to use them

Related Features: [enhancedImage](#), [enhancedImageCount](#), [enhancedImageSelector](#), [enhancedImageStart](#), [enhancedImageWidth](#), [enhancedImageOffset](#) and [enhancedImageGain](#)

Enhancement of Interest (EOI) regions allow rapid gain and offset settings to be applied to up to 4 regions in the image. EOIs are supported in all imaging modes except for Super Resolution mode.

The EOI feature has been optimized to load in minimum time (~ 50 ms) by only applying a gain and offset on a region rather than per-pixel.

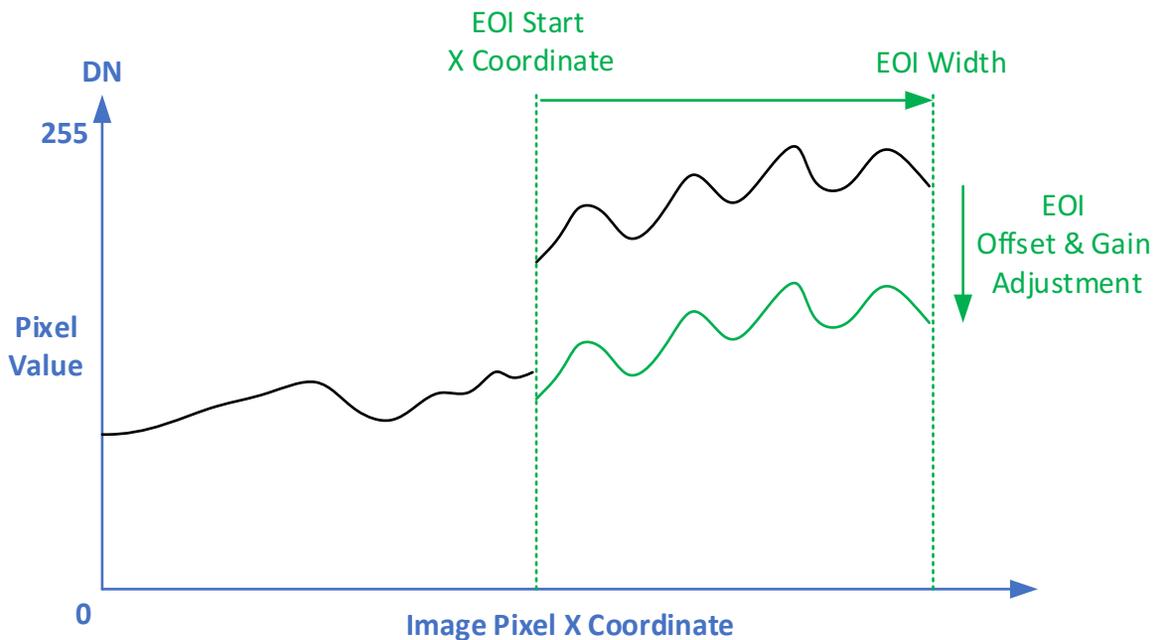


Figure 44: Enhancement of Interest

EOIs are designed for applications where maximum line rate is a priority and pixel flatness for the region is tolerable, as compared to HDR mode or regional flat field correction (FFC), which provide per pixel adjustments.

For example, if image has regions that are highly reflective and other regions that are dark, the response in a region can be adjusted to flatten the output. HDR mode or regional FFC can compensate for this by applying a per-pixel based correction, providing the best result for a flat image. However, HDR limits the maximum line rate due to dual line acquisition and FFC requires greater than 2 seconds to load user set coefficients and cannot be used to adjust to changes in image regions in real-time. Alternatively, EOIs provide the maximum line rate but with a flattened image region.



Note: EOI parameter settings are not stored in the camera and are erased at camera reset.