

Motion Video Products

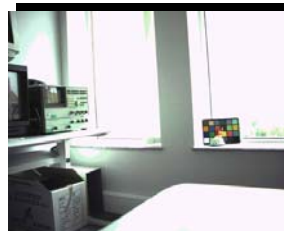
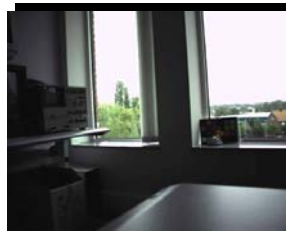
MVP

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Extended Dynamic Range

Purpose: to increase the pixel sensitivity to scenes with high contrast. Hence, both very bright and very dark areas in an image can be seen.

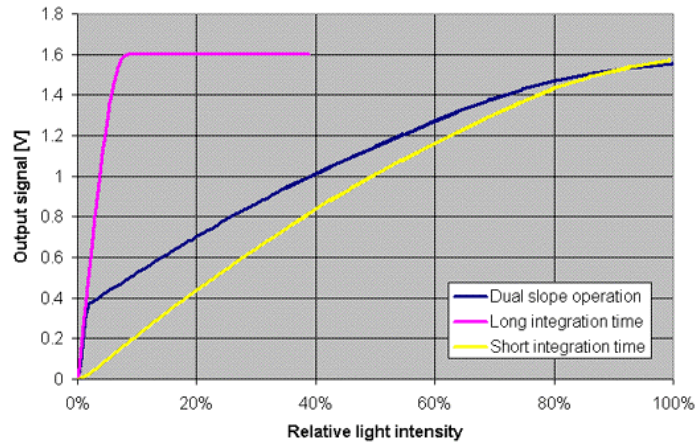


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Pixel Exposure

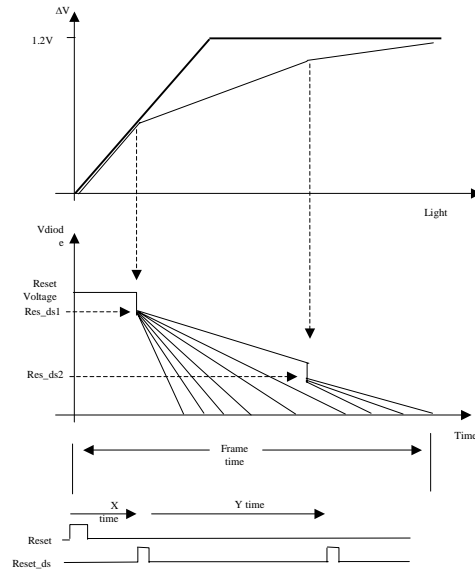


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EDR

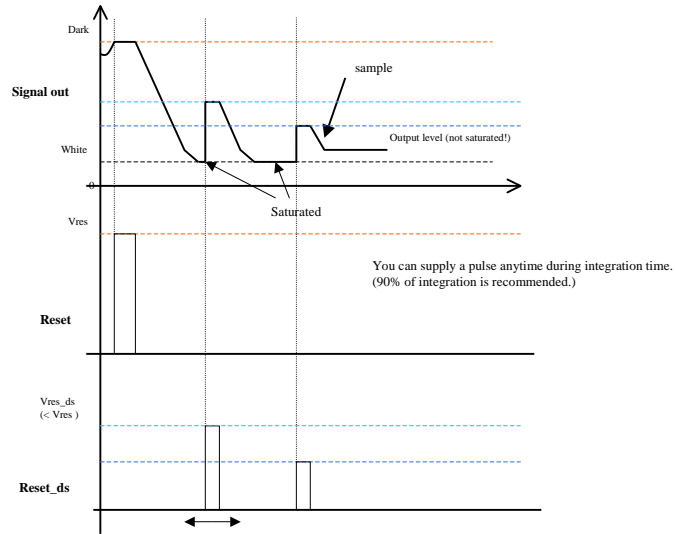


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Pixel Operation with EDR

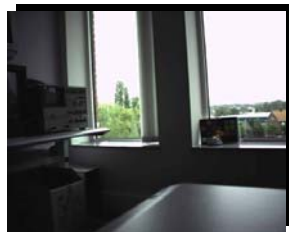


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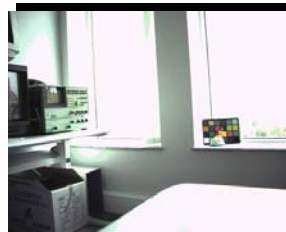
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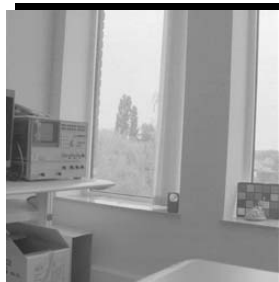
Pixel Operation with EDR



Too dark inside



Too bright outside

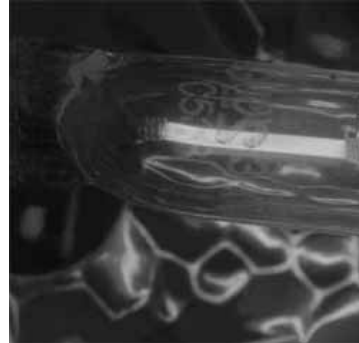
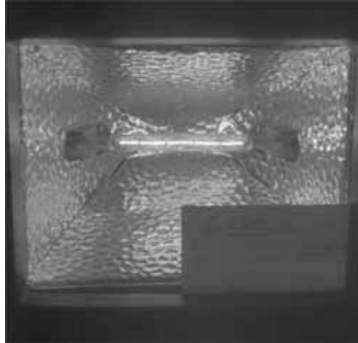


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Very High Contrast

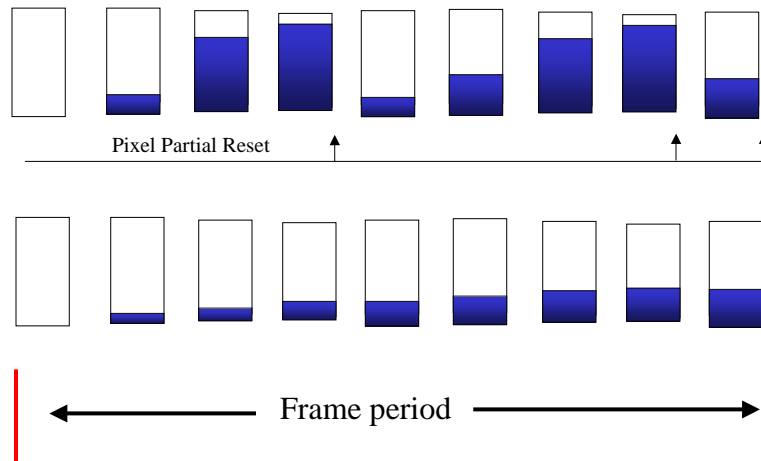


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EDR Pixel Operation



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Positive Points About EDR

- high Contrast areas can be viewed
- application in
 - welding
 - light bulb manufacturing
 - glass production
 - explosive scenes
 - etc, etc

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Negative Points About EDR

- contrast is compressed such that edges are not well defined
- not good for color images is the EDR reset is applied > 50%
- images will be blurred for dark subjects at high velocities
- image response is not linear

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