

WDR Solution in Surveillance

Make Easy >>

The WDR Kit
A Complete Up to
1080P/60fps Total
Solution.



Introducing the WDR Solution

This unique solution features Altera's low-cost Cyclone IV FPGAs and intellectual property from Apical supporting AltaSens' 1080p60 and Aptina's 720p60 HD Wide Dynamic Range (WDR) CMOS image sensors. The all-in-one solution offers surveillance equipment manufacturers the ability to reduce board space, lower power consumption, increase flexibility and reduce development time compared to previous architectures using traditional digital signal processors and ASSPs.

Features:

- 3A Algorithms
- Defect Pixel Correction
- White Balance
- 2D/3D NR
- WDR Processing
- Lens Shading
- Tone Mapping
- Demosaic
- Chromatic Aberration Correction
- Color Matrix
- Edge Enhance
- Gamma Correction
- Up to 1080P60
- Low Cost FPGA

Effect of WDR ISP on High-Contrast Scenes

Compared to the unprocessed image in left-bottom, the image in right-bottom shows how the WDR ISP allows the maximum detail to be extracted from a high contrast scene. In particular, the dark areas are revealed without corresponding overexposure in the bright areas.

