

Question: What is “Wide Dynamic Range” in a CCTV camera and where can it be used?

Answer: Wide Dynamic Range is a term applied to a camera’s processing ability whereby bright and dark regions of an image can be evened out improving the overall appearance of an image.

Wide Dynamic Range is a term applied to a camera’s digital processing ability whereby bright and dark regions of an image can be evened out improving the overall appearance of an image with more uniform detail.

It is particularly effective in a scene which has a back light such as a window which overexposes a traditional camera, as illustrated by the images below.

WDR Switched Off



In this image with WDR switched off the buildings outside the window cannot be seen. The camera tries to take an exposure reading from the bright window area resulting in the rest of the image looking dark.

WDR Switched On



In this image with WDR switched on the buildings outside can be seen and the overall exposure of the resulting image has been improved.