
Surveon HDR Technology Introduction

Application Notes



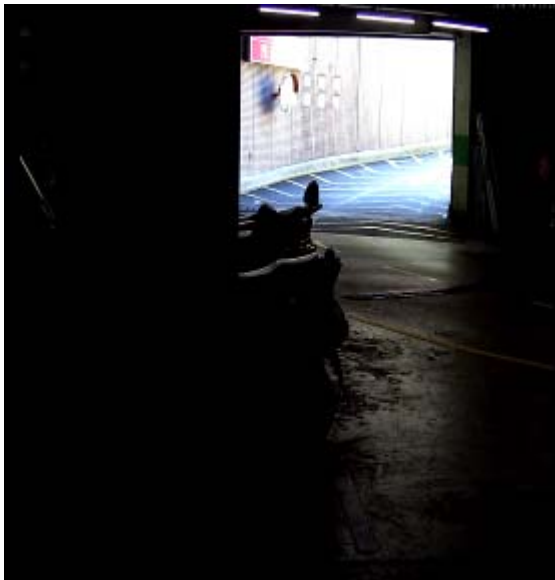
Technical Support Team

When the surveillance camera is installed in the location which the lighting is mixed with brightness and darkness, the object in the recorded video is usually hard to be recognized since the image detail is lost either in the bright area or the dark side. The typical situations are:

1. The building entrance with daylight outside and a darker room inside.
2. The scene with some parts under direct sunlight and other parts in deep shadows.
3. A car with strong headlights, moving directly towards the camera.

To solve this issue, camera manufacturers have developed the WDR (Wide Dynamic Range) technology to cover the wide LUX range. Limited by the sensor and the technology, most of them use the D-WDR by adjusting the gamma value. The D-WDR has the limitation on the covering LUX range and would lose details and shift the color.

Original Scene



D-WDR



HDR



To provide a real wide dynamic range without losing the true image, the HDR (High Dynamic Range) technology was developed. The HDR combines different levels of exposure frames to a single frame to ensure the image detail in both the bright and dark areas are kept (see comparison pictures in Page 2).

Surveon's HDR is the advanced technology capable of handling high variety of LUX range scenario. The following Surveon Premium cameras have integrated this HDR technology:

CAM2441



CAM3471



CAM4471

