WDR (Wide Dynamic Range) is a technology to retouch/correct SDR images in high-contrast scenes, without generating blackouts and whiteouts. Since the dynamic range of a standard camera is limited, it is hard for one to capture high-contrast scenes properly, resulting in overexposure or underexposure. TMC developed a unique WDR technology to provide images that is easy to detect even with a general "object recognition algorithm", compatible with RZ/G microprocessors.

TMC’s original WDR engine improves the appearance of SDR images.

TMC’s original WDR engine uses a fast-operating algorithm that does not interfere with the operation of other applications, and therefore is ideal as a pre-process for object recognition by AI.

Available with a configuration compatible with Gstreamer.

**Local Tone Mapping**
Local tone mapping makes the dark areas brighter without generating whiteouts in originally bright areas.

**Detail Enhancement**
Detail Enhancement improves the sharpness of the entire image.

**Target Markets and Applications**
- Surveillance Camera
- Home Security
- Door Phone
- Inspection Machine
**Application Examples**

Surveillance Camera  
Door Phone  
Home Security  
Inspection Machine

**Information on evaluation software**

- Evaluation software can be provided as a static library including Gstreamer.
- The evaluation software has a frame limit and the TMC logo.
- For more information, please feel free to contact us.

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