

View-DR

Benefits of View-DR in Visual Communication

Capture Clear, Visible Images in High Contrast and Changing Lighting Conditions

Sony's latest View-DR technology with its Exmor™ CMOS sensor enables the capture of high-quality images with an extended wide dynamic range, an essential feature for visual communication applications such as videoconferencing and remote monitoring. View-DR technology produces clear, visible images in challenging lighting environments (i.e., high contrast, back light, and/or changing lighting conditions).

Strong Sunlight in a Dimly Lit Room

In a videoconferencing setting for example a common lighting condition encountered is the contrast between the bright sunlight streaming in from a window and low interior meeting room light. View-DR can handle both. View-DR technology maintains visibility around and outside the window, while still producing clear images of participants within the meeting room.



View-DR OFF



View-DR ON

* Simulated images

See the Presenter in Low Light

This is also the case with distance learning applications. Students within a seminar room as well as those students participating remotely want to see the facial expressions and gestures of the lecturer. Sony's high sensitivity pan-tilt-zoom cameras can bring the two together seamlessly. In another example, a typically low-lit teaching environment occurs when the lecturer stands alongside a large, bright projection screen. View-DR technology ensures that both the presenter and the presentation materials are clearly visible.



View-DR OFF



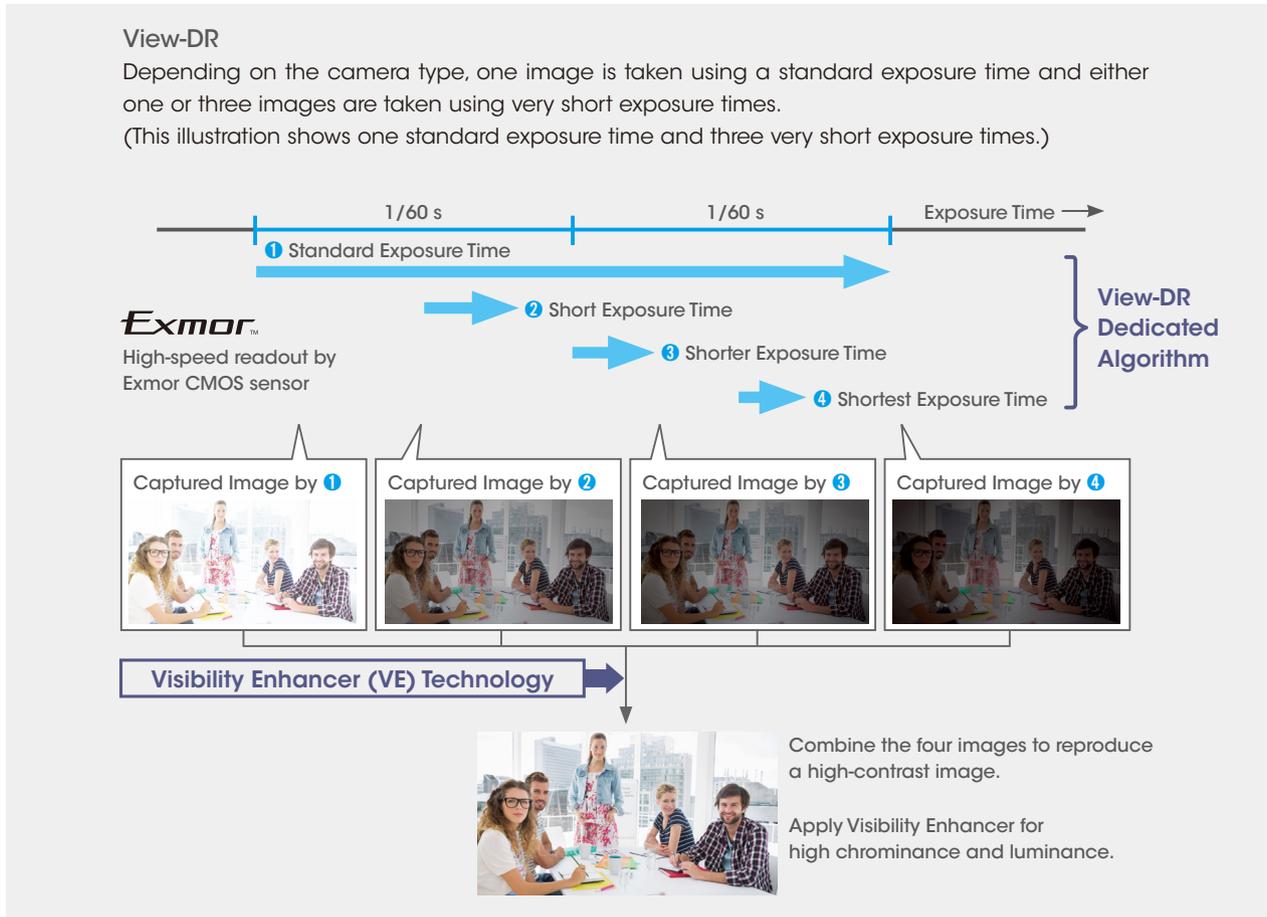
View-DR ON

* Simulated images

View-DR Mechanism

View-DR is a powerful combination of Sony's full-capture Wide-D technology, high-speed Exmor CMOS sensor, and Visibility Enhancer (VE) technology. The full-capture Wide-D technology integrated in View-DR utilizes an electronic shutter to capture multiple images and reproduce each frame. One image is taken using a standard exposure time and either one or three images are taken using very short exposure times, depending on the camera type. With the advanced View-DR algorithm, all of the electrons converted from the captured light are fully used by the imager. This is significantly different to some other Wide-D technologies in the industry which discard approximately half of these electrons. As a result, Sony's View-DR nearly doubles the sensitivity obtainable by conventional Wide-D technologies.

The high-speed readout characteristics of the Exmor CMOS enable the capture of multiple HD resolution images at very high speeds. During the process of combining multiple images, the VE provides a high level of chrominance and luminance. With View-DR, the monitored image can at times enhance the visible beyond what the human eye can see.



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