



HDR TECHNOLOGY

TrueDetail HDR

Every detail
at the right exposure

TrueDetail HDR is OnCam's high dynamic range technology. It allows both dark and light areas within the same image to be clearly visible at the same time, revealing important details in challenging light conditions. TrueDetail HDR captures two different images of the same frame with different exposure levels, it then merges them to bring out the detail in both dark and bright areas.

Unlike traditional sequential HDR technologies, TrueDetail HDR captures the two frames concurrently, minimizing the time lag between short and long exposures; this delivers clear and sharp images with minimal motion blur. Even in everyday scenes, the dual exposures of TrueDetail HDR bring out details you didn't even know were there!

HOW IT WORKS

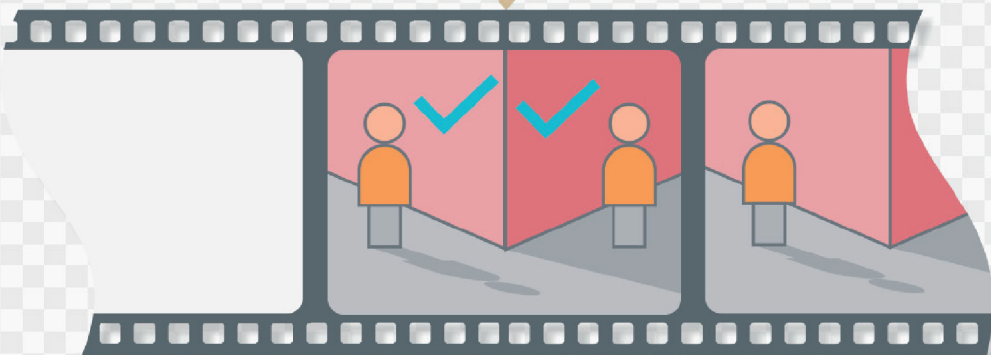
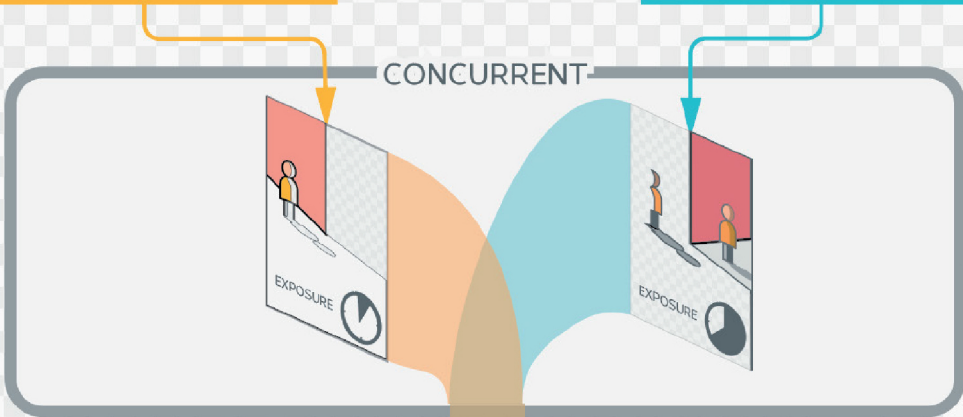
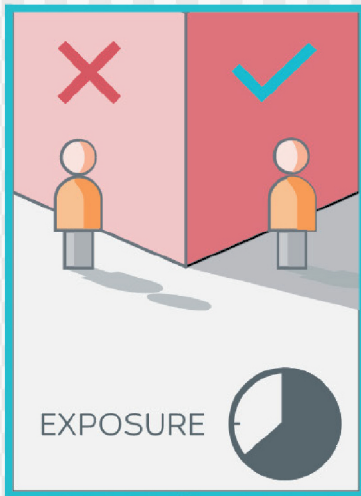
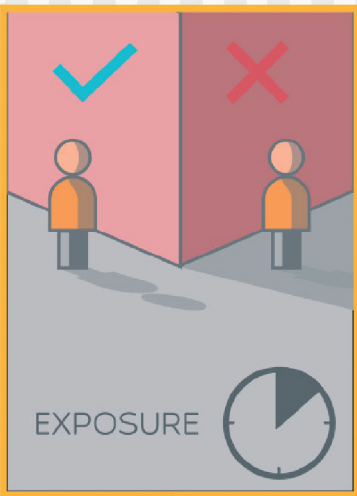
Photographers know that bright and dark areas are difficult to capture properly in a single shot. Dark areas need a longer exposure and therefore more light onto the film or sensor than the bright areas, so when both exist in the same scene, unfortunately one of them loses out and detail is lost.

Traditional Sequential HDR technologies, address this challenge by capturing two consecutive frames with alternating long and short exposures and then fusing them into a single image, to produce an image that shows details in both light and dark areas of the scene. However, this is captured at a reduced frame rate and at the potential expense of motion blur and distortion as the two consecutive images can differ when there are moving objects in the scene.

With TrueDetail HDR, users don't experience the drawbacks of sequential HDR technologies: it captures two different images of the same video frame by taking both a long and a short exposure almost concurrently and at full frame rate, with the smallest gap possible and seamlessly blends them together, carefully selecting the best exposure for each area. With TrueDetail HDR, bright and dark areas can be captured together perfectly without compromise, and the whole process is done tightly in a single frame to minimize any blurring or distortion of moving objects

WHAT ARE THE BENEFITS?

- Reveals the finest details in both light and dark areas of every scene
- Realistic lifelike image quality and detail with smooth motion and playback
- Maintains up to 30 fps
- Significantly reduced motion blur and image tearing compared with competition





www.oncamgrandeye.com

sales@oncamgrandeye.com
UK: +44 (0)20 7371 6640 | US: +1 978 735 4860

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