BOSCH

Video Systems Fact Sheet

X-factor technology explained with starlight X and HDR X

Image quality is vital when you need to see the details from fast-moving objects in challenging lighting conditions. At the same time, an increasing percentage of noise may occur, leading to grainy images and a loss of detail that may obscure the desired information.

You get more out of your video security system when your cameras catch the details. Next-level starlight X and HDR X technologies take image quality and resolution further, enabling cameras to deliver improved security and situational awareness around the clock.

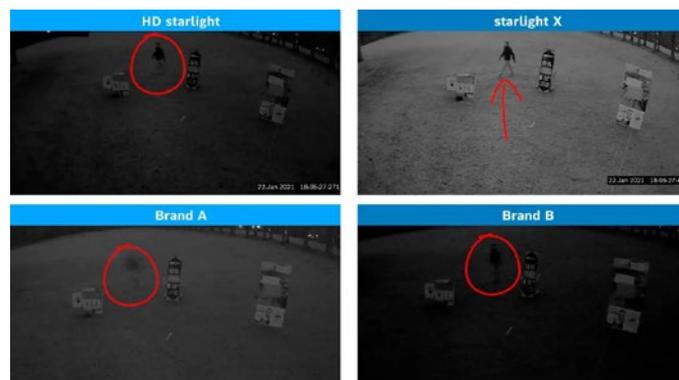## Excellent imaging with starlight X

Long considered the gold standard in low-light video performance, Bosch starlight technology enables its cameras to capture color detail even when light levels drop to near zero. Starlight X technology with next-level light sensitivity technology delivers clear and relevant images regardless of lighting conditions, time of day, or object movement. What's more, the new starlight X technology:

- Provides more detail due to lower noise and ensures color images down to 0.0061 lux due to its new custom optics
- Combines large pixel sensors, advanced image processing, and noise suppression algorithms to enhance sensitivity significantly over regular starlight cameras
- Boosts monochrome sensitivity to the next level, offering improved performance in extreme low-light scenes

[1] Low light comparison of starlight to starlight X in 1080p resolution

[2] Low light comparison of another brand to starlight X in 4-megapixel (4MP) resolution

Sensitivity comparisons of starlight to starlight X, brand A and brand B in 4MP resolution

Motion-optimized HDR X

Standard HDR technology combines multiple images with different exposure times to increase the overall dynamic range, ensuring that detailed images are captured in scenes with both light and dark areas. HDR X combines large pixel sensors, custom optics, and Bosch imaging algorithms, generating two readouts from one short exposure with different gain levels. This new technology features:

- A unique lens-sensor combination optimizes video capture in scenes with fast-moving objects

- A High Dynamic Range frame of up to 144dB provides perfect exposure

- No motion-related artefacts and blur in challenging light conditions

HDR X eliminates motion blur and artefacts in scenes with challenging lighting and fast-moving objects

Our X series portfolio

FLEXIDOME IP starlight 8000i X series: Highest level of detail for mission-critical applications

The award-winning, FLEXIDOME IP starlight 8000i X series cameras offer exceptional image quality, robust housing, and built-in AI to deliver the highest level of detail required for mission critical applications such as perimeter protection of airports, parking lots, critical infrastructures, government buildings, border patrol, ship tracking, and traffic monitoring.

FLEXIDOME IP indoor 8000i X series: The right fit for indoor high-security applications

The FLEXIDOME IP 8000i portfolio is already known for its remote commissioning and reducing set-up time by up to 75 percent. The new indoor line-up further simplifies installation with a unique timesaving, two-step concept that any installer can do. These cameras are ideal for indoor use in warehouses, shopping malls, casinos, airports, and train stations.