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Image optimisation systems

The visual evaluation of image recordings or live recordings is critically important. Be it for crime prevention, monitoring and control of infrastructure, detection of product defects, scientific image analysis and numerous other scenarios. However, recordings can be unclear due to uncontrollable circumstances.
 EIZO proves image optimisation can also work outside the monitor with the DuraVision EVS1VX image optimisation system. The system improves the recognisability of video recordings in the areas of security, monitoring, infrastructure maintenance and image analysis in real time.
 DuraVision EVS1VX is installed via HDMI between the signal source (camera or recorder) and the monitor or analysis unit and optimises playback. This simplifies the visual differentiation of image details and facilitates image analysis in AI-supported systems.
 Areas that are difficult to see due to low light, atmospheric haze or other environmental conditions are differentiated in real time and the brightness of each pixel is adjusted to increase detectability. This is useful not only for night or fog visibility, but also for detecting surface irregularities, such as cracks in concrete, tracks, pipes or asphalt. DuraVision EVS1VX has advanced setting options and optional features.

- ✔ Simplifies visual differentiation and easier image analysis in AI-based systems
- ✔ Installed between signal source and screen or analysis unit, video content is optimised
- ✔ 2D noise reduction filters unnatural block artefacts
- ✔ Clearer contours through 3D noise reduction (optional), especially for night shots
- ✔ Better colour differentiation of almost colourless images (optional)
- ✔ Effective adaptation to the displayed scene through extensive leveling options
- ✔ Focusing on interesting sections of the image optionally through partial image enhancement
- ✔ Capture still images of optimised scenes and save directly to USB media (optional)

Image optimization system For improved visibility

Numerous areas of application

EIZO's image enhancement systems improve visibility in a variety of situations where the accurate review of video content is required, whether it's visual inspection by people or machine evaluation including AI.

Areas such as security (visibility of suspicious activities and objects), monitoring (detection of irregularities and defects), infrastructure maintenance (maintenance and early detection of dangers) and image analysis benefit from the optimised detectability of video recordings.



Better visibility in real time

The EVS1VX is equipped with EIZO's patented Visibility Optimizer technology which analyses and adjusts images pixel by pixel in real time.

Optimize difficult to recognise images

The DuraVision EVS1VX detects and corrects areas of the image which are difficult to see due to low light or haze. The solution handles both dark and light areas of the image by adjusting the brightness of each pixel while maintaining detail for a realistic sense of depth. Not only is this useful for surveillance at night or in fog, but also for detecting irregularities or cracks in surfaces such as concrete.

Image processing is based on the Retinex theory, where pixels are optimised individually.



With optimized brightness



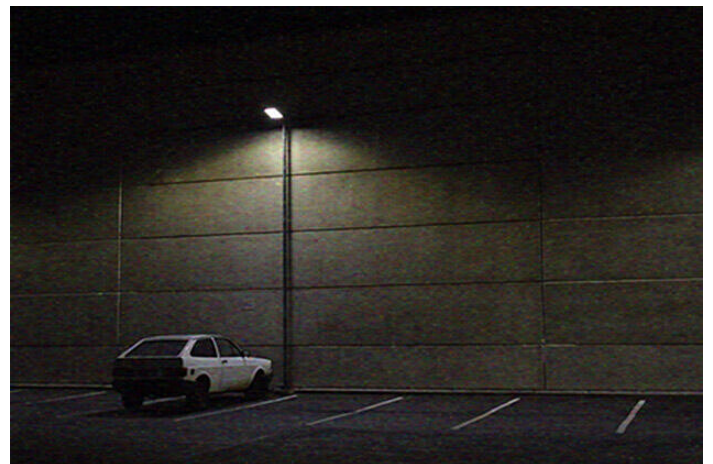
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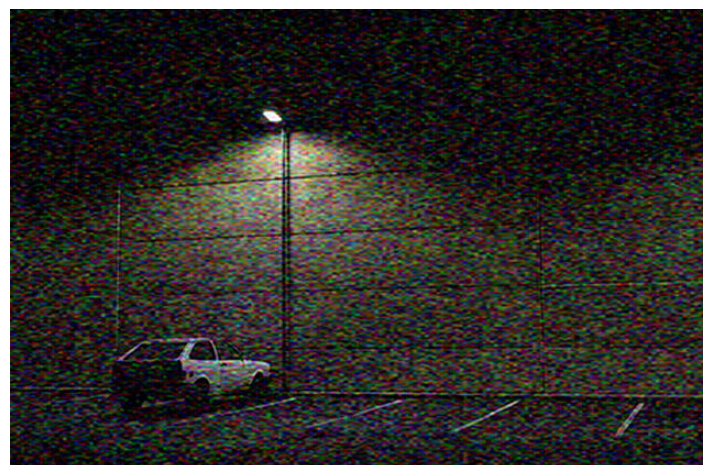
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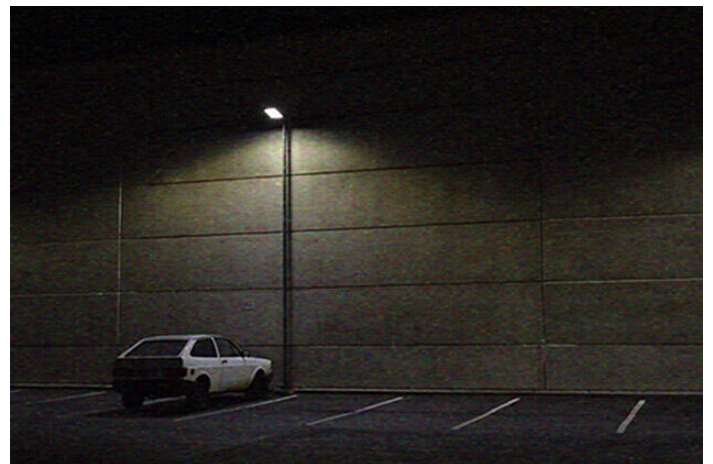
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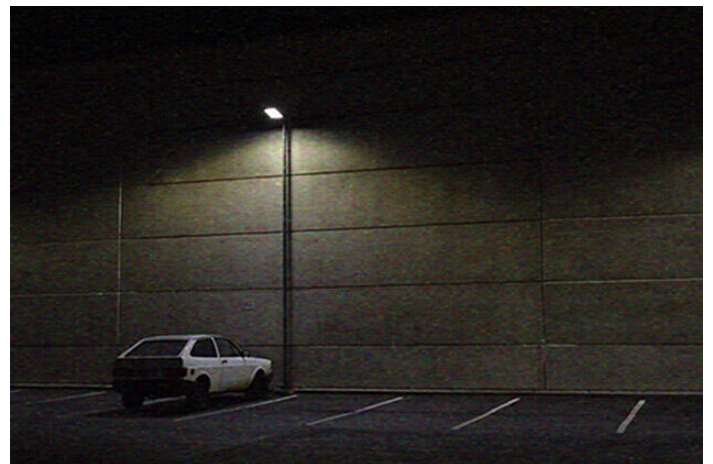
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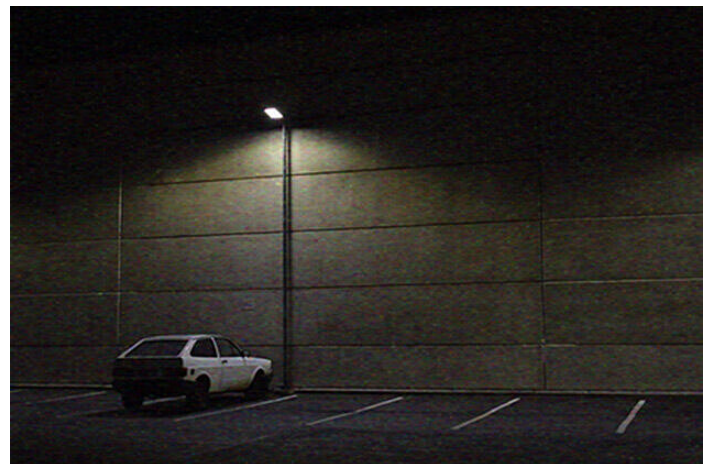
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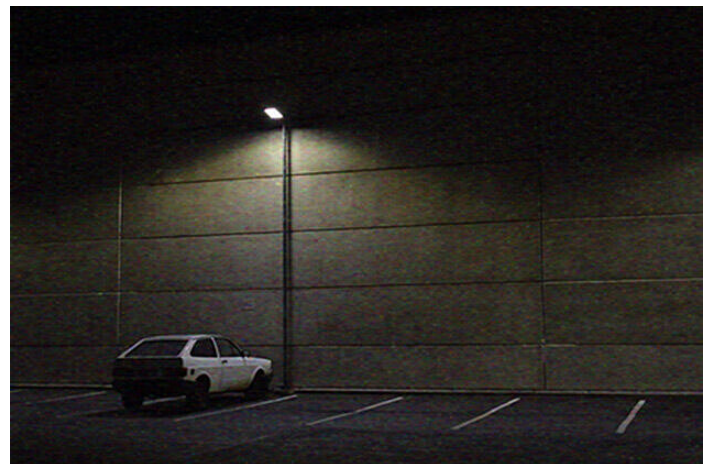
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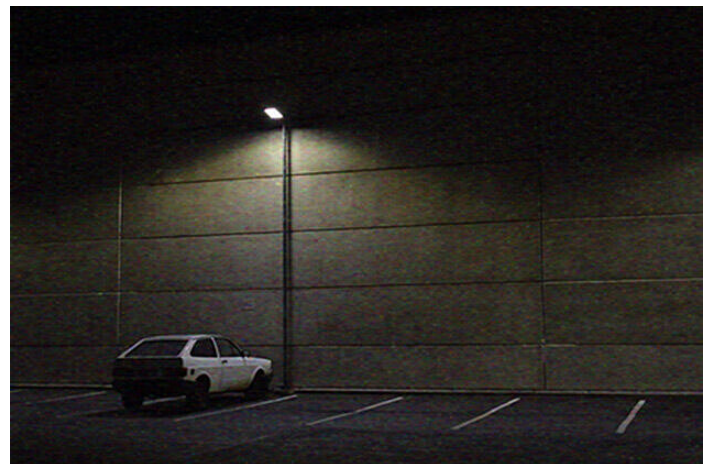
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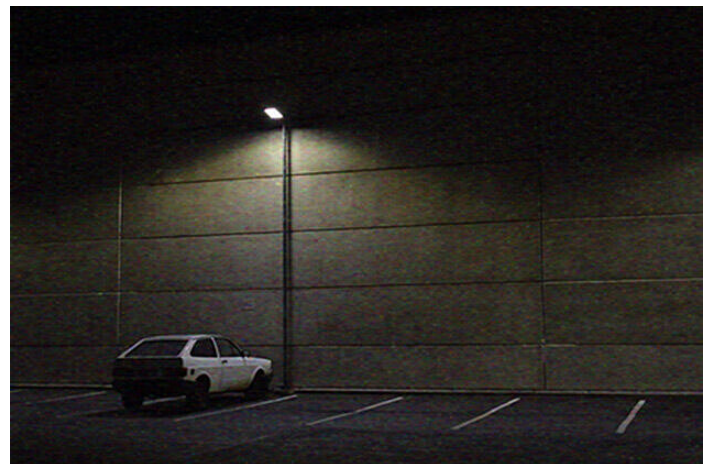
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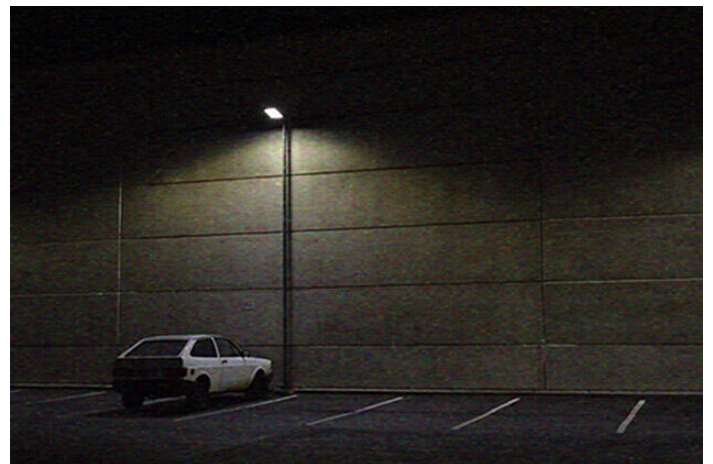
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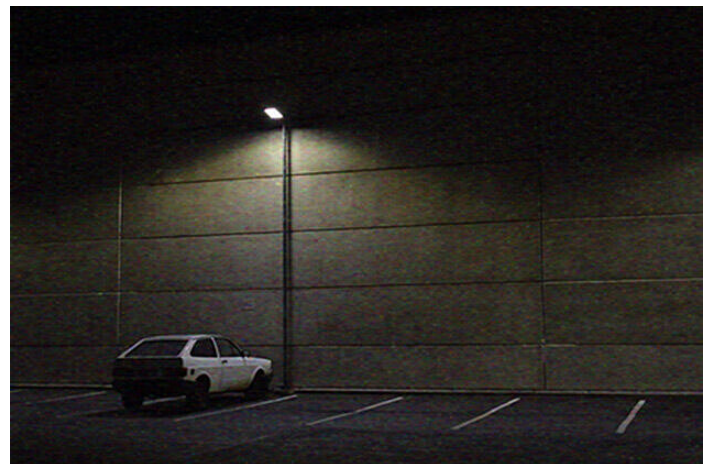
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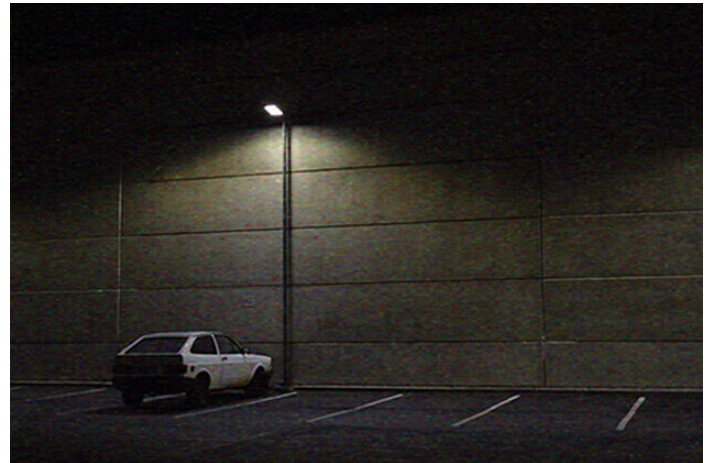
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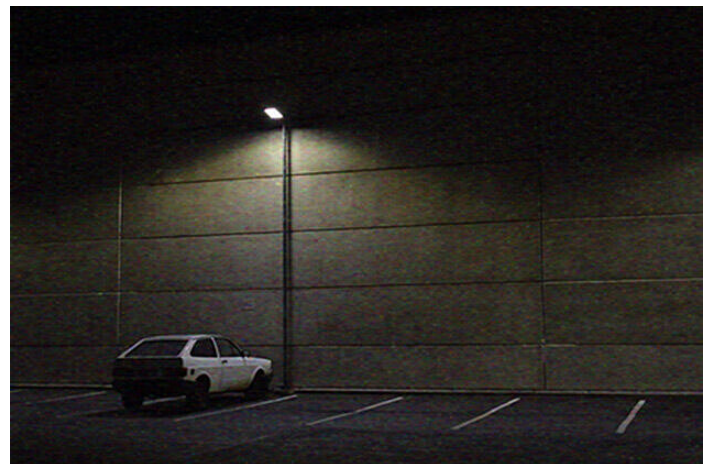
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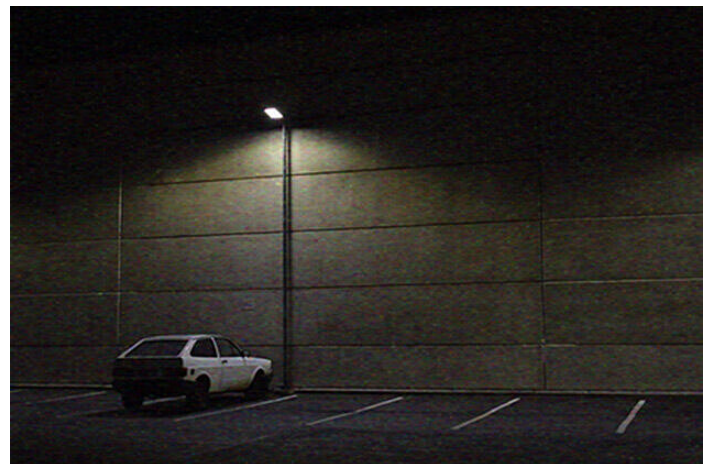
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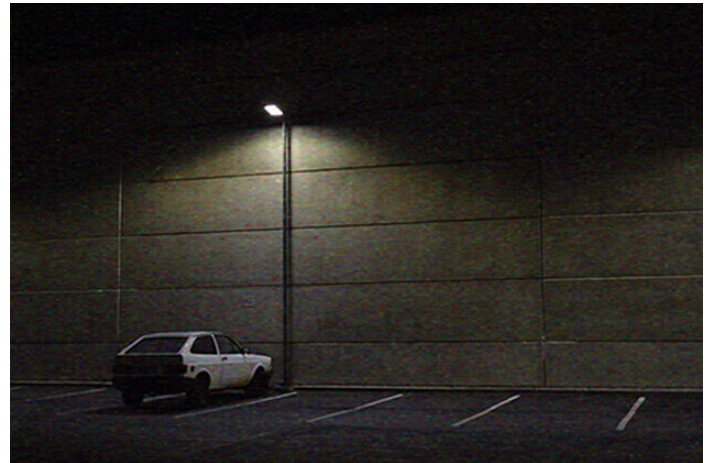
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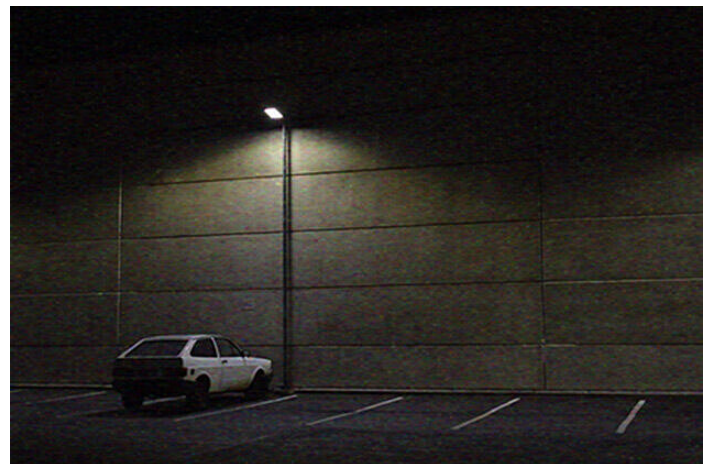
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