→ Product Website

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 EVS1VS 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 EVS1VS 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 for also detecting surface irregularities, such as cracks in concrete, tracks, pipes or asphalt.

✓ 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

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 (visibilty 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 EVS1VS is equipped with EIZO's patented Visibility Optimizer technology which analyses and adjusts images pixel by pixel in real time.

Improve visibility in low light conditions

The DuraVision EVS1VS detects and corrects areas of the image which are difficult to see due to poor lighting conditions. The solution adjusts the brightness of each pixel, ensuring any dark areas are optimally corrected while brighter areas are not washed out. This is useful when recording surveillance video at night or in areas with low light.

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

With image enhancement

Without image enhancement

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Reduce visual impact of haze

The DuraVision EVS1VS detects and corrects areas of the image which appear out of focus due to fog, smoke, snow or other environmental conditions to improve visibility. This is ideal for viewing video footage in outdoor areas.
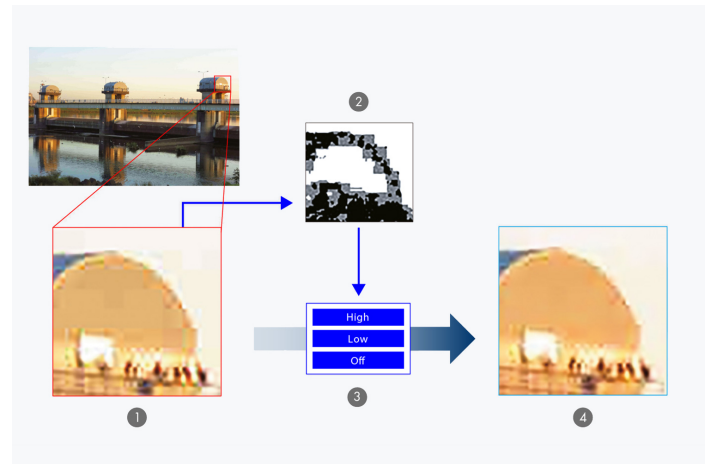

Improved visibility

Areas of the image that appear blurred

Reduce block noise

The DuraVision EVS1VS uses 2D noise reduction to filter out unnatural blockiness in images and make objects more distinguishable. The processing intensity is automatically adjusted to preserve natural contours and edges. This feature is extremely useful when examining noisy, compressed images.

1. Original image | 2. Image information | 3. Automatic adjustment of the filter strength | 4. No unnatural block formation
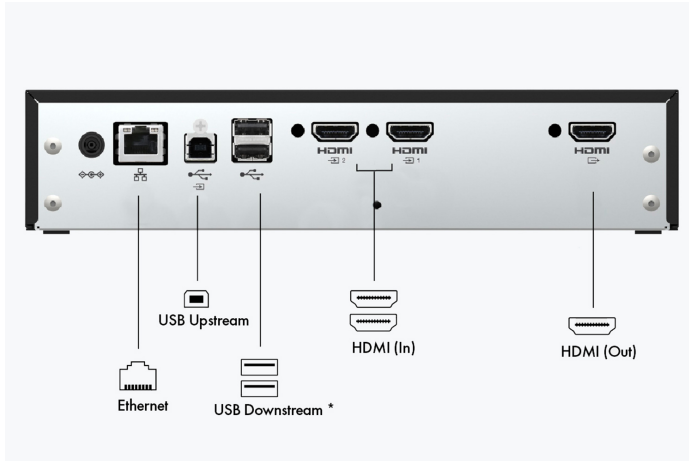
Easy to use
Features for greater comfort

Set display modes and image sharpness

With the EVS Image Optimization control, display modes can be fine-tuned and image sharpness maximised through enhanced contours, contrast and brightness.

The EVS Image Optimization control is free of charge, however, connection to a Windows PC via USB (cable not included) is required for use.

Flexible connectivity

The DuraVision EVS1VS has two HDMI inputs, one HDMI output and is equipped with an Ethernet port for firmware updates via a browser.

USB Upstream
HDMI (In)
HDMI (Out)
Ethernet
USB Downstream *

* Peripheral connections only on EVS1VX

Durability
And reliability

Two-year warranty

EIZO grants a two-year warranty. This is possible thanks to the highly developed production process based on a simple principle of success: sophisticated and innovative technology, made from high-end materials.

24/7 use

The EVS1VS is built for 24-hour use and is characterised by maximum reliability.

Sustainability
Environmentally and socially conscious production

Socially responsible production

The EVS1VS is produced in a socially responsible way. It is free of child labour and forced labour. Suppliers along the supply chain have been carefully selected and they have also committed themselves to produce in a socially responsible way. This applies in particular to conflict minerals. We present a detailed report about our social responsibility annually and voluntarily.

Environmentally and climate friendly

Each EVS1VS is manufactured in our own factory, which implements an environmental and energy management system in accordance with ISO 14001 und ISO 50001. This includes measures to reduce waste, wastewater and emissions, resource and energy consumption, as well as to encourage environmentally conscious behavior among employees. We publicly report on these measures on an annual basis.

Sustainable and durable

The EVS1VS is designed to have a long service life and normally outlasts the warranty period by some distance. Replacement parts are available many years after production has ceased. The entire lifecycle takes into account the impact on the environment as the longevity of the product and the fact it can be repaired saves resources and protects the environment. When designing the EVS1VS, we took a minimalistic approach to our resources by using high-quality components and materials, as well as a careful production process.

Technical Data

GENERAL

Areas of application	Video surveillance, Industry
Product line	DuraVision
Areas of application	Image optimisation systems, Video surveillance

FEATURES & OPERATION

24/7 operation	✔
Image enhancement process	Visibility Optimizer, Preset, Picture section selection
Video formats	1080/50p, 720/50p, 720/59,94p, 720/60p, 1080/59,94p, 1080/60p

CONNECTIONS

Signal inputs	2x HDMI (HDCP 1.4)
Signal outputs	1x HDMI
USB specification	USB 2
USB upstream ports	1 x type B
Network connection	RJ-45
Control port	USB-Protocol, Ethernet

ELECTRICAL DATA

Maximum Power Consumption [in watts]	45
Power supply	AC 100-240V, 50/60Hz

DIMENSIONS & WEIGHT

Dimensions (width x height x depth) [in mm]	240,5 x 53,2 x 143,8
Weight [in kg]	1.4
Dimension drawing (PDF)	Dimension drawing (PDF)

CERTIFICATION & STANDARDS

Operating temperature	0 - 40 °C / 20-80 % (R.H., non condensing)
Certification	CE, UKCA, CB, RCM, cTÜVus, FCC-A, CAN ICES-3 (A), VCCI-A, RoHS, WEEE

SOFTWARE & ACCESSORIES

Other box contents	AC adapter, Signal cable HDMI - HDMI, Manual via download

WARRANTY

Warranty periode	2 years