DuraVision **DX0231-IP**



Product Website

4K UHD IP Decoding Box

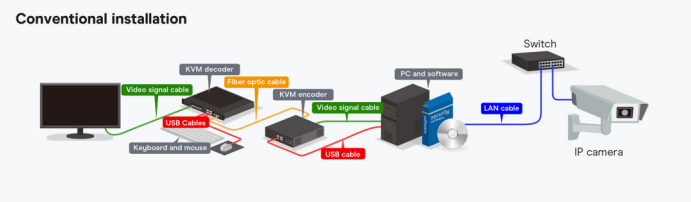
The DuraVision DX0231-IP is a standalone IP decoder solution that can be connected to up to two 4K monitors in flexible configurations to display IP cameras or video streams. This solution works without a PC, application software, or additional hardware, offering users a simple installation process that saves time and money on initial setup and system maintenance. Potential sources of error are reduced and security gaps eliminated, as only minimal equipment is required for video surveillance. The smart device is compatible with over 300 cameras, including 4K cameras with ONVIF Profile S, Axis VAPIX, Panasonic, and i-PRO protocols. Up to 48 cameras can be registered on the device and up to 32 streams can be displayed simultaneously. For audio-visual situation recognition, the DX0231-IP supports audio output from various IP cameras. The EIZO IP decoder box offers standard resolutions up to 2 x 4K in various formats and supports ultra-wide image resolutions of 3840 x 1600 and 3440 x 1440 pixels. This enables the display of images from panoramic cameras, facilitating the monitoring of large areas and the effective elimination of blind spots. EIZO is committed to reducing environmental impact by eliminating plastic from the DX0231-IP product packaging.

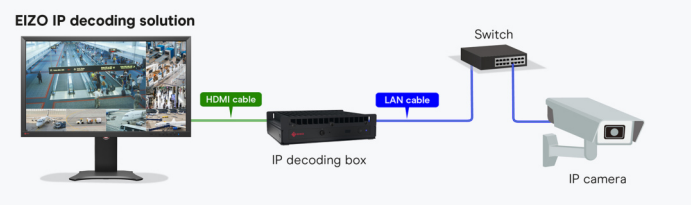
- Connection of IP surveillance cameras and IP video streaming without a PC
- Powerful decoder technology for up to 48 streams
- Alert-to-action for targeted and rapid information
- Easy configuration via the web interface and API
- Protection of live data
- Support for camera protocols: ONVIF, Panasonic/iPro, and Axis VAPIX
- Support for RTSP control
- 2 HDMI outputs for up to 4K UHD
- Audio support for various camera models

High-performance operation
Without a computer

Integrated solution

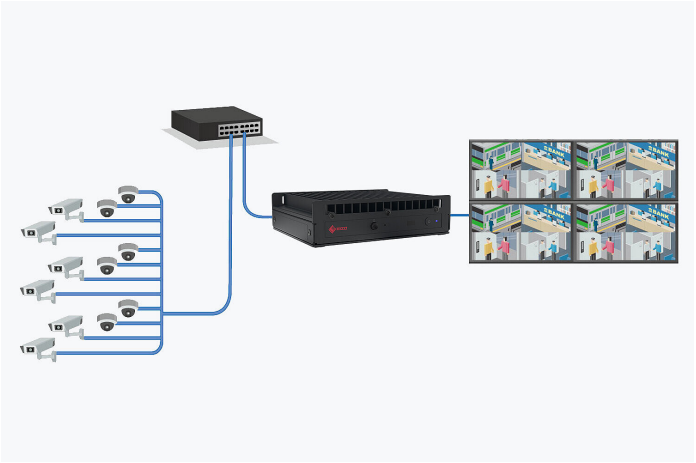
The DuraVision DX0231-IP offers an efficient way to decode IP video streams directly and can be connected directly to the components in the video network without the need for additional hardware. This includes both the connected IP cameras and VM systems. This enables reliable and flexible integration into video surveillance systems. No computer, software, or other hardware is required for operation, which significantly simplifies installation and saves time and effort. Additionally, sources of error resulting from a conventional configuration are eliminated, as the technical effort is minimal.





Box solution features innovative decoding technology

The DuraVision DX0231-IP features the innovative decoding technology used in EIZO's unique IP decoding monitors in an external box format. It decodes and compresses multiple feeds from IP cameras in order to display video data in real-time. It can be used in conjunction with different monitor sizes and resolutions, making it ideal for video walls and multi-monitor environments.



Video decoding

The DuraVision DX0231-IP can decode H.265 (HEVC), as well as H.264 and MJPEG codecs, displaying them in real-time in order to assess any situation quickly. The decoding technology also ensures a high fps (frames per second) for displayed content, even when streaming high-resolution video data. For example, 16 Full HD (1920 x 1080) video feeds displayed simultaneously on a single monitor consistently achieve 20 fps.



3840 x 2160 / 20 fps



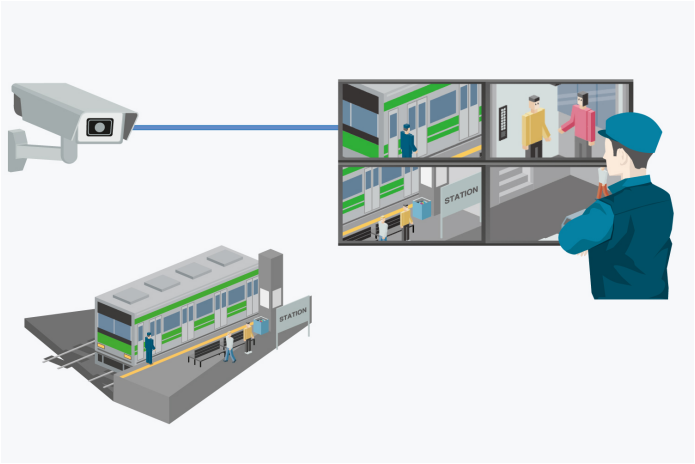
1920 x 1080/ 20 fps



1280 x 720 / 15 fps

Live streaming directly from IP cameras

Connecting IP cameras directly to the DuraVision DX0231-IP facilitates the live streaming of video data without a decentralised recording solution, such as edge recording or cloud archiving. This offers the ideal solution for scenarios that require live streaming, but for which the storage of recorded images is not permitted.



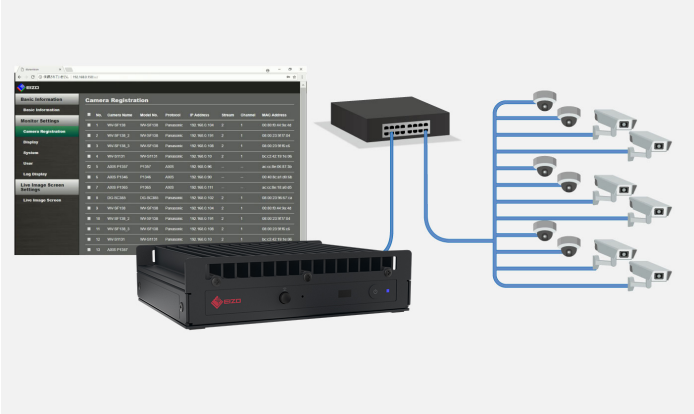
Audio Output from Cameras

Audio from IP cameras can be transmitted to the speakers and headphone output of connected monitors, enhancing situational awareness.

Supported codecs: OPUS, G711, G726, AAC
Supported protocols: ONVIF, AXIS, Panasonic, i-PRO, DirectURI (RTSP)

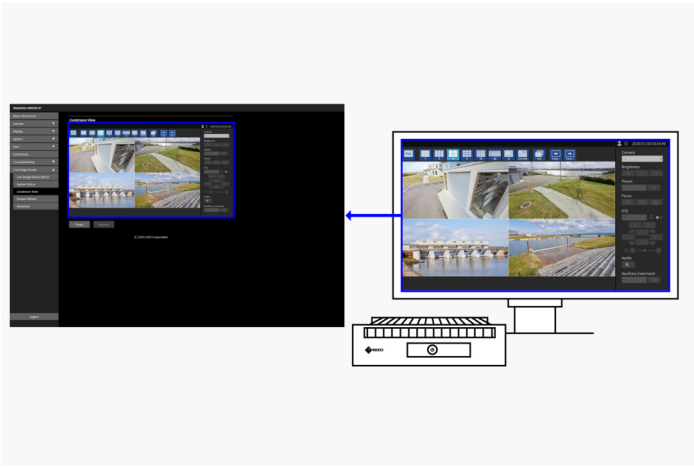
Register up to 48 IP cameras

Up to 48 different IP cameras, including 4K cameras, can be registered with the DuraVision DX0231-IP via the intuitive Camera Registration List (web UI). Cameras can be discovered automatically or registered manually, while individual settings are easily managed from a central location.



View remote live streams via the web UI

Live video streams displayed on remotely located monitors can be viewed in real-time (1fps) via the web UI so operators can check display status without needing to visit the installation site.



The live stream view remotely displays the image output from the IP decoding monitor or the IP decoding box.

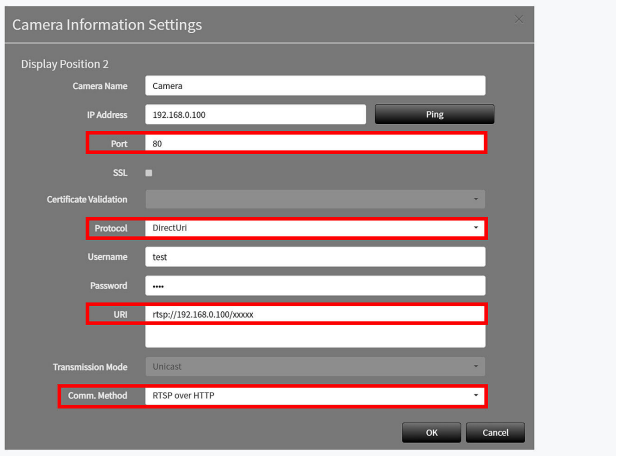
Secure investment with support for over 300 cameras

The DuraVision DX0231-IP supports cameras with ONVIF Profile S, Axis VAPIX and Panasonic protocols for flexible installation and guaranteed interoperability with a wide range of products. A direct connection via RTSP is also available.

Further information on camera compatibility can be found here.

Support for RTSP via HTTP/HTTPS

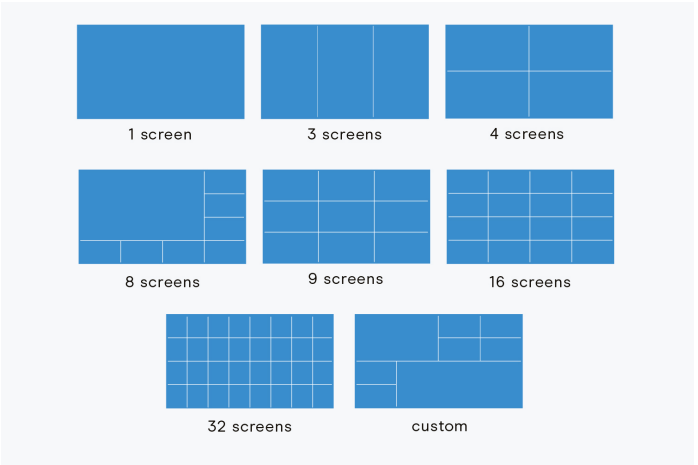
The IP decoder can receive a stream via HTTP or HTTPS and can therefore still communicate with the camera if Direct URI is selected, even if RTSP is blocked by a firewall or router.



Easy to use
Features for greater comfort

Adjustable screen layout

You can easily adjust the layout of the video streams with seven default options, displaying up to 32 video images via the user-friendly web UI. In a two-screen solution, a layout extends across both monitors via a decoding box or decoding monitor. The flexible arrangement of screens on each monitor in a custom layout also allows you to fulfil individual viewing needs. By means of a custom layout, you can merge individual windows to focus on one specific area, or split them to see more than one on a single screen. Video feeds can be viewed in the original aspect ratio or stretched to fill the custom-created space.

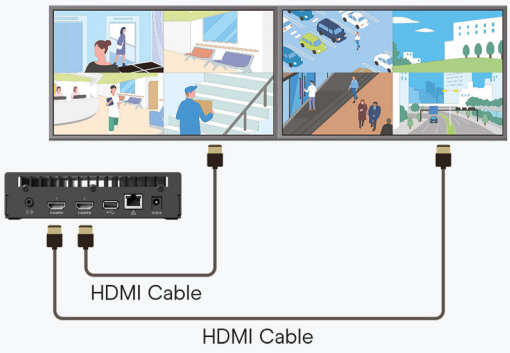


Sequential lock

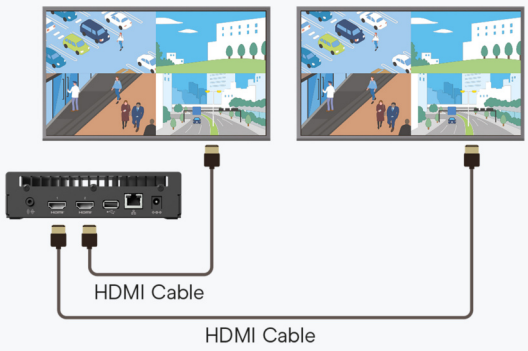
When using the sequential image display setting, users can select an image to remain static, even through page changes. This allows operators to keep eyes on a single focus point while maintaining a coverage in several other areas.

4K Output to Dual Monitors

The IP decoding box is equipped with two HDMI outputs, each supporting high-definition 4K UHD resolution (3840 x 2160). This makes it possible to display multiple camera feeds on two screens and make efficient use of multi-monitor configurations. The box can be used for different screen sizes and is therefore suitable for many installation environments.



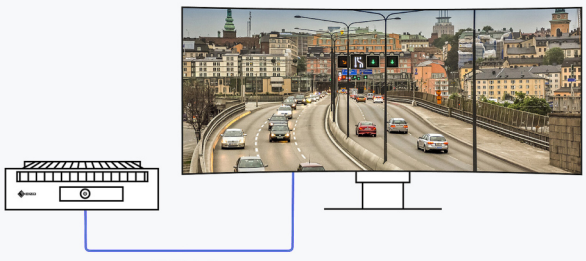
Extended Display



Mirroring

Ultrawide Monitor Configuration

The DX0231-IP supports ultra-wide resolutions of 3840 x 1600 and 3440 x 1440 pixels. This makes it ideal for displaying images from panoramic cameras. The IP decoding box can be used with the EV3450XC and EV3895 ultra-wide FlexScan monitors, for example. For multi-screen operation – layout stretched across two monitors – screens with the same resolution can be used.



Intuitive PTZ control of cameras

PTZ settings can be adjusted directly via buttons in the respective image view of the camera instead of using separate camera settings. This intuitive user interface optimises operation and guarantees efficient monitoring.



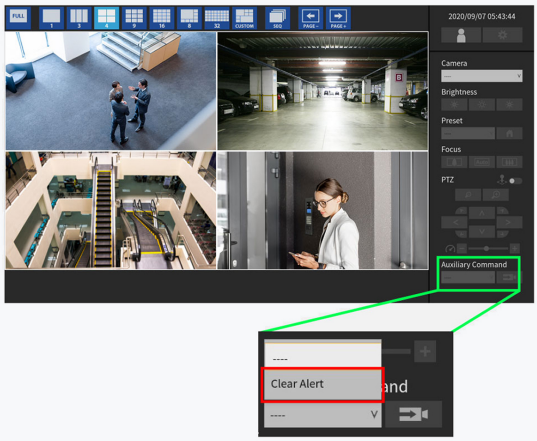
Virtual PTZ function

The virtual PTZ function allows an area of the displayed image to be digitally magnified for closer inspection. Once magnified, the image can be virtually panned up, down, left or right by the user in real time. This is useful when viewing video from cameras that are not equipped with PTZ functions.



Sending commands to network devices

Users can send HTTP commands manually from the live-stream view directly to the IP monitor or network device via a notification window. This can be used to operate a door lock or switch off an alarm and reset to the original display status, for example.



Operation via USB interface

You can connect a USB mouse, keyboard or joystick via a USB downstream port to control the user interface as an alternative to the Web UI.

However, USB storage devices are not supported, which prevents unwanted access and data transfers.

Integration in security systems
Highly compatible

Functionality with leading VMS

EIZO collaborates with leading security and surveillance solution providers to ensure technical compatibility and optimised functionality with various video management systems (VMS).*

*Integration with Milestone XProtect and Octave requires a VMS license, which is sold separately.

Learn more about integration with video management systems.

Genetec™ milestone accellence OCTAVE MOBOTIX Panasonic

ALERT-TO-ACTION

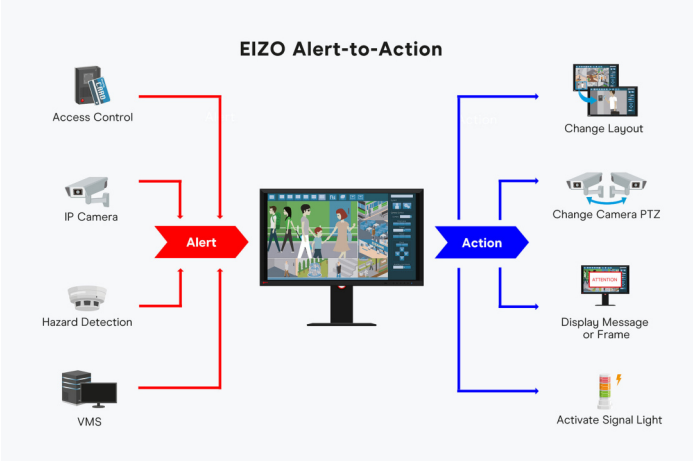
Integrated alarms via the network

IP decoding solutions support custom integration with local security systems through a web API to enable response to alarms over the network.

When an event occurs and an alarm is sent from IP cameras, access control, hazard detection, VMS or other systems, EIZO IP decoding solutions can respond with a predefined action, such as layout adjustment, message display, audio activation, camera adjustment, masking, power-on status and more. Actions can also be scheduled at a specific time, such as automatically changing the camera layout every Sunday at 16:00.

Linking and integrating into the workflow ensures that the most important information is displayed at the right time to react quickly to situations.

Learn more about Alert-to-Action



Secure network communication

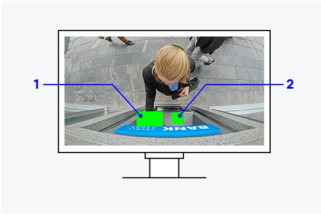
The DuraVision DX0231-IP supports HTTPS protocol to ensure authenticated access for secure communication over a network.

SNMP (Simple Network Management Protocol)

The DX0231-IP supports SNMP v1 and v2c, enabling communication with network management systems to exchange status and performance information.

Masking and virtual limitations

The DuraVision DX0231-IP allows users to set up static masks (privacy masks) and virtual limitations in live-streaming environments. The masking ensures that environments can be monitored reliably while also complying with the necessary data privacy provisions. Virtual limitations are helpful if actual limitations would potentially otherwise be difficult to recognise or follow. Up to ten objects can be used simultaneously per stream and their size, shape and colour can be adjusted. The source data stream is unaffected by this. Reliable monitoring is data protection compliant, while the original data can be stored separately.



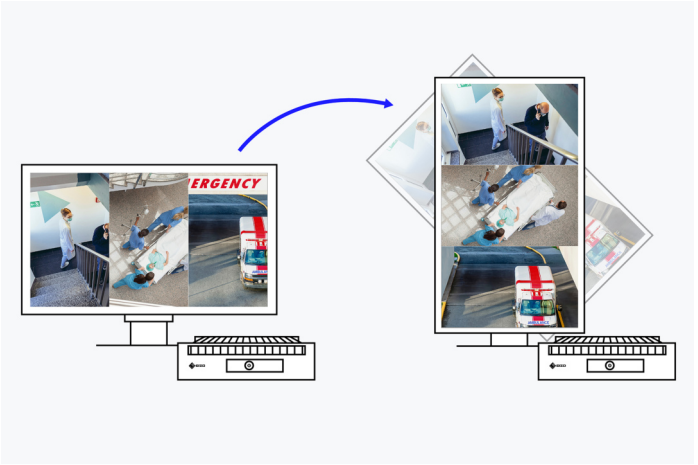
Privacy masks
Examples of privacy masking at ATMs include 1. a concealed bankcard and 2. a concealed keypad



Virtual limitations
Example of a virtual line that limits the monitoring area of a road.

Screen rotation

The screen can be rotated to adapt to the connected monitor in portrait position for environments requiring this layout.

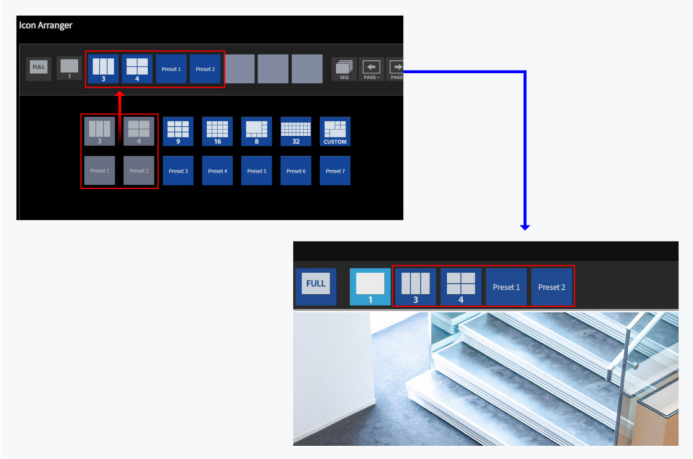


Extension licenses
For additional functions

Live image menu customisation

Customise the live view menu with preset icons of your choice using the Icon Arranger function. You can also save up to seven custom layout presets and add it to the live view menu. Presets can also be renamed for easier menu navigation.*

*Requires a LiveView license for the DX0231-IP, which is sold separately.



Changes to the display options can be seen on the target monitor.

Connection stability, access control and encryption for more security

SRT (Secure Reliable Transport) is an open source video transport protocol that enables the delivery of high-quality and secure, low-latency video across the public internet. It is ideal for video streaming in environments where latency and consistent connection pose a challenge, such as onboard ships or in remote locations.*

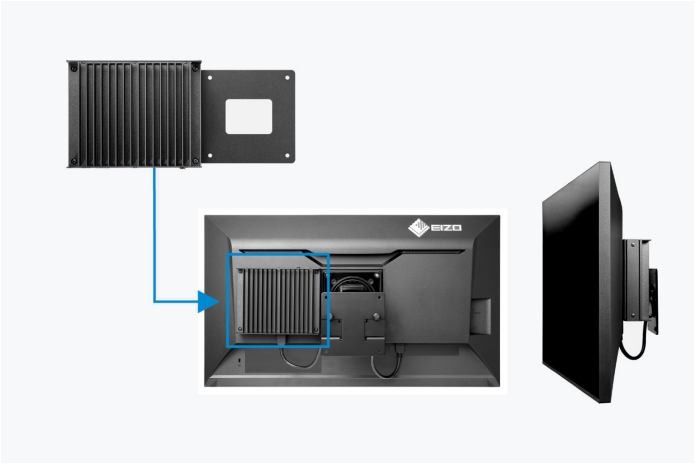
*Requires Decoding License, available separately.

Easy installation
Reliable function

Minimal footprint for mounted solutions

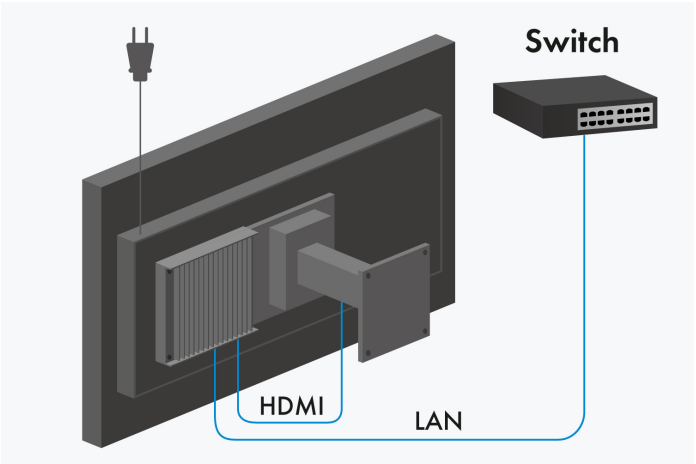
The DuraVision DX0231-IP can be easily mounted to the back of any VESA-supported monitor* using the VOP-01 mounting plate. The box's slim, compact design allows it to fit perfectly behind a monitor mounted to the wall or ceiling, which means that it occupies minimal space in the installation area. Direct attachment to the monitor also helps to keep cabling controlled to the designated space, reducing overall clutter.

* Some monitors require both the VOP-01 panel as well as the OPAVM-P100 mounting panel.



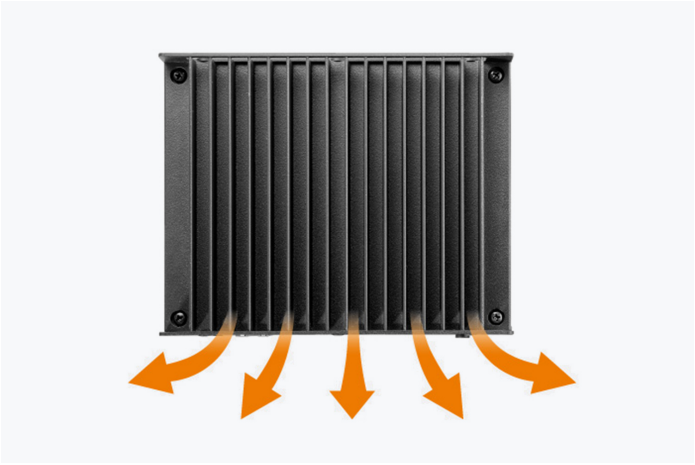
Power supplied without AC adapter

The DuraVision DX0231-IP is equipped with a PoE+ hub, which means it is powered without a power supply unit or cables. This keeps the installation area tidy. An optional power supply unit is available for environments where PoE+ is not supported.



Fan-less solution with low heat output

The DuraVision DX0231-IP offers noiseless, fan-less operation while maintaining low heat output for long-term reliability. The top of the device is designed so that heat escapes efficiently, keeping it cool even during long periods of operation.



Heat escapes from the top to keep the box cool at all times

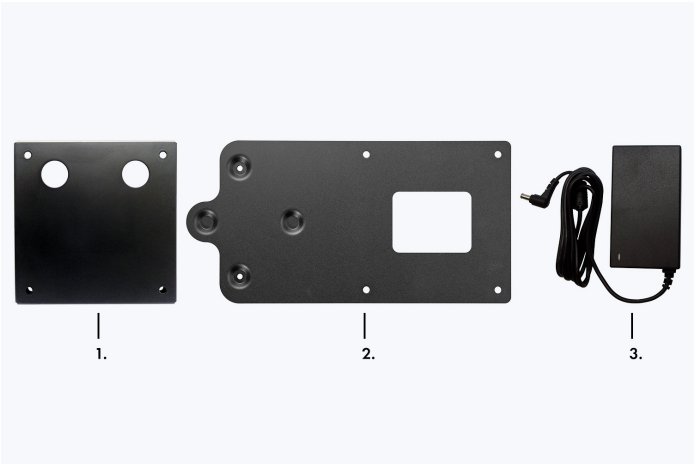
Brackets (optional accessories)

Two different brackets can be combined with the IP decoding solution for convenient installation:

The VESAMP is a mounting plate for converting EIZO monitors with FlexStand with Quick Release so that they are prepared for VESA mounting. When the stand is removed from the monitor, the plate is inserted into the open space, allowing for the VESA-supported fixtures to be mounted.

The VOP-01 is used to mount the DuraVision DX0231-IP to the back of any VESA-supported monitor, which means that it occupies minimal space in the installation area. Direct attachment to the monitor also helps to keep cabling controlled to the designated space, reducing overall clutter (monitors with FlexStand with Quick Release require the VESAMP100 to attach to VESA-supported fixtures).

The optional DVAC-01 adapter for the DuraVision DX0231-IP decoding box is a power supply for systems that don't support PoE+.



1. VESAMP100, 2. VOP-01, 3. DVAC-01

Durability
And reliability

DURABLE THANKS TO HIGH-END QUALITY

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 DX0231-IP is built for 24-hour use and is characterised by maximum reliability.



TECHNOLOGY WITH CONFIDENCE

TAA and NDAA Compliance

Products in the security and technology sector must not originate from high-risk regions nor include restricted surveillance or telecommunications technologies linked to security concerns. The DuraVision DX0231-IP is manufactured in Japan and is fully compliant with U.S. TAA (Trade Agreements Act) and NDAA* (National Defense Authorization Act) requirements.

*NDAA 2019 compliant

Sustainability

Environmentally and socially conscious production

RESOURCE AND CLIMATE FRIENDLY

Sustainable and durable

The DX0231-IP 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 DX0231-IP, we took a minimalistic approach to our resources by using high-quality components and materials, as well as a careful production process.

FAIR CONDITIONS

Socially responsible production

The DX0231-IP 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.

CERTIFIED AND TRANSPARENT

Environmentally conscious production

Each DX0231-IP 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.



FOCUS ON THE ENVIRONMENT

Sustainable packaging

EIZO is committed to reducing its environmental impact by transitioning away from plastic and other environmentally unfriendly materials in product packaging.





SUSTAINABLE DEVELOPMENT GOALS

Our Contribution to SDGs

As part of its sustainability initiatives, EIZO is contributing towards the United Nations' Sustainable Development Goals (SDGs).

Learn more about EIZO's sustainability initiatives here.

Industry, Innovation, and Infrastructure

DuraVision products offer a range of visual solutions for facilities that are essential to people's daily lives, such as hospitals, businesses, airports, factories, public transportation hubs, and many more. We continue to support safety, industrial, and other activities with robust product design, manufacturer's warranty, and customer services.

Environmentally conscious

Our products for industrial environments are designed to increase energy efficiency in order to reduce power consumption and greenhouse gas emissions, while ensuring the high performance and functionality that users in every industry require. We also rely on a responsible recycling system.
Learn more.

Technical Data

GENERAL

Item no.	DX0231-IP
Case color	Black
Areas of application	Video surveillance, Industry
Product line	DuraVision
Areas of application	IP solutions, Maritime, Video surveillance, Control rooms
EAN	4995047069638

IP DECODING

Device type	Decoder
Video decoding	H.265, H.264, MJPEG
Audio decoding	AAC, Opus, G711, G726
Streaming protocols	RTP (H.265, H.264, MJPEG, MPEG2-TS), SRT (H.265, H.264), UDP (MPEG2-TS)
Number of simultaneous streams	32
Registerable cameras	48
Decoding performance	1-screen layout: 3840 x 2160 / 30 fps, 1920 x 1080 / 60 fps, 4-screen layout: 3840 x 2160 / 20 fps, 1920 x 1080 / 60 fps, 16-screen layout: 1920 x 1080 / 20 fps, 32-screen layout: 1280 x 720 / 15 fps
Maximum bitrate [kbps]	8192
Maximum output signal	3840 x 2160 / 60 Hz
Layouts	sequential screen lock, custom, corridor format, 3x3, 4x4, 4x8, rotating, 1x1, 2x2
Supported transfer protocols	Axis VAPIX, Panasonic/i-PRO, RTSP, ONVIF Profile S
VMS support	Octave*, Milestone XProtect*, Siemens*, Genetec, Accellence Technologies, Mobotix, (*optionale Lizenz benötigt)
Management support	SNMP v1, v2c
IP address filter	✓

FEATURES & OPERATION

LAN/RJ-45	✓
Web API for configuration and operation	✓
PTZ control incl. presets	✓
Communication protocols	DHCP, DNS, HTTP, HTTPS, LDAP, NTP, RTP, RTSP, SNMP, SRT, IEEE802.1X
Privacy mask and virtual line	✓
Alert-to-Action	✓
Software version	System software V7.x
Issue commands to network devices	✓
Optional features (licence required)	SRT Protocol (H.265, H.264), VMS support, Icon Arranger
24/7 operation	✓

CONNECTIONS

Signal inputs	RJ-45 (IP-Video)
Signal outputs	2x HDMI
USB specification	USB 2
USB downstream ports	1x Typ A
Network connection	RJ-45
LAN standards	IEEE802.3u (100BASE-TX), IEEE802.3ab (1000BASE-T)
Control port	USB-Protocol
Audio / headphone output	3.5 mm stereo jack

ELECTRICAL DATA

Maximum Power Consumption [in watts]	25.5 (via PoE+), 24 (via power adapter)
Power supply	PoE+ (IEEE802.3at Type 2) / Power Adapter: 42,5-57 V (48 V typ.), AC Adapter 12 V DC (optional)

DIMENSIONS & WEIGHT

Dimensions (width x height x depth) [in mm]	165 x 44,2 x 130
Weight [in kg]	0.72
Dimension drawing (PDF)	Dimension drawing (PDF)
2D CAD data (DXF)	Download 2D CAD data (DXF)

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), TÜV/S, VCCI-A, RoHS, WEEE

SOFTWARE & ACCESSORIES

Other box contents	1x short signal cable HDMI - HDMI, Manual via download, Quick guide
Accessories	VOP-01 (VESA Offset Plate), OPAVM-P100 (OPAVM-P100 Mounting Plate), DVAC-02 (Optional power supply)

WARRANTY

Warranty periode	2 years
Warranty type	24/7

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