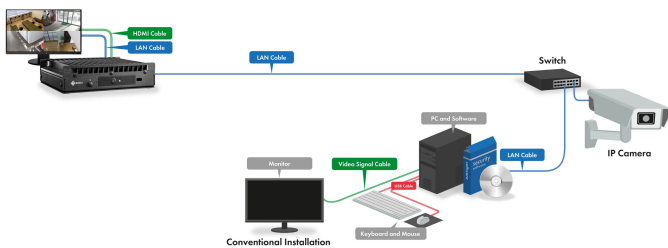# DX0211-IP

Your advantages

The DuraVision DX0211-IP is the ideal solution for video walls and multi-monitor security environments. It offers an outstanding decoding performance and flexible video management, as well as a compact design. The decoding box solution can connect to an IP camera or switch and stream video data directly to a connected monitor. It does not require a PC, software or any other hardware to operate, which greatly simplifies installation and saves time and labour costs. This also eliminates several of the potential points of failure typically associated with a conventional setup by significantly reducing the amount of equipment needed to manage sensitive visual data.

- ✓ No PC needed to connect IP surveillance cameras and video streams
- ✓ Supports 4K UHD and multiple Full HD streams
- ✓ High-performance decoding technology for up to 16 streams (64 planned for the end of 2019)
- ✓ Easy to configure settings and event reactions via the web interface and API
- ✓ Data security for live data
- ✓ Supported camera protocols: ONVIF (Panasonic; Axis VAPIX planned for the end of 2019)
- ✓ Supports RTSP controls
- ✓ HDMI output of up to 4K UHD at 60 Hz (second HDMI output support planned for the end of 2019)

Features

Integrated solution

The DuraVision DX0211-IP can connect to an IP camera or switch and supply video data directly to a connected monitor. It does not require a PC, software or any other hardware to operate, which greatly simplifies installation and saves time and labour costs. This also eliminates several of the potential points of failure typically associated with a conventional setup by significantly reducing the amount of equipment needed to manage sensitive visual data.
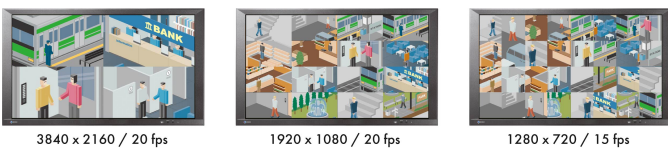

Box solution features innovative decoding technology

The DuraVision DX0211-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.
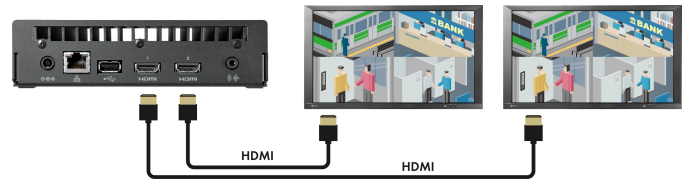

Video decoding

The DuraVision DX0211-IP can decode and compress H.265 (HEVC) (H.265 support is planned for the end of 2019), 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 |

Examples of framerates for different resolution and screen combinations.
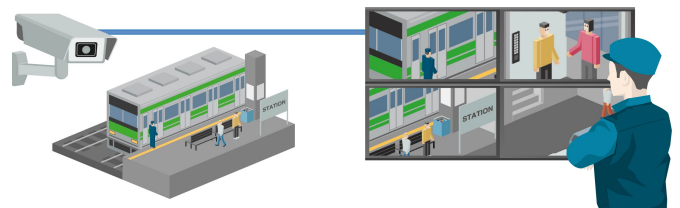
4K output

The DuraVision DX0211-IP features two HDMI outputs that support 4K UHD resolution (3840 x 2160) on up to two monitors (currently supports a single monitor; dual-monitor support is planned for the end of 2019). This allows users to flexibly combine different resolutions in a viewing environment, such as a Full HD and 4K displays.
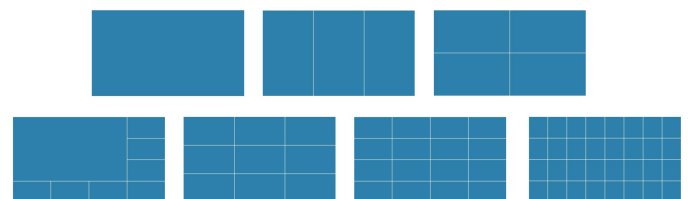

Live streaming directly from IP cameras

Connecting IP cameras directly to the DuraVision DX0211-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.

Adjustable screen layout

You can easily adjust the layout of the video streams with seven default options, displaying up to 32 screens per monitor via the user-friendly web UI (currently supports up to 16 channels/screens on a single monitor; support for 32 channels per monitor is planned for the end of 2019). 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.

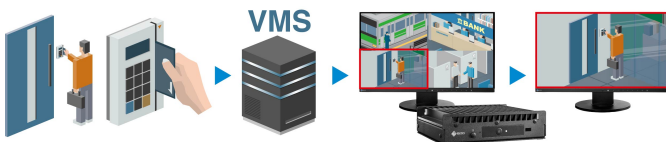Split screen view for 1 to 32 screens.

Features

VMS-independent fallback solution

VMS forms the basis for reliable video playback in modern VSS solutions. Even though the platform is protected from foreseeable events thanks to server redundancy, the VMS solution that establishes a connection to the operators via a client should be seen as a critical point. If this system comes under attack or is disabled, the IP decoding solution which operates independently of the VMS can provide a redundant solution. To achieve this, it is simply connected directly to the surveillance cameras, the network connection of which continues to operate.
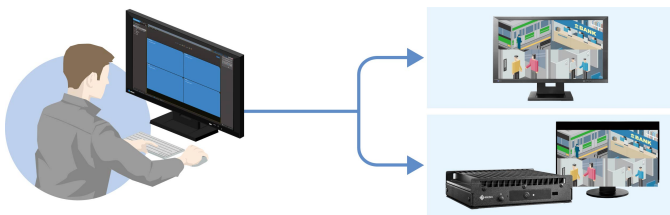
Customisable event response

The web API supports customisable integration with the local VMS. This allows events or alarm monitoring to be communicated from the VMS to the IP decoding box, instructing it to respond to a given event. The DuraVision DX0211-IP then adjusts the display of the receiving monitor to operate accordingly.

Example: The key card access notification is sent directly to the VMS which instructs the DuraVision DX0211-IP to expand the screens.

Functionality with leading VMS

EIZO works with pioneers in the security and surveillance industry to ensure technical compatibility and functional support with various VMS (video management systems).

Camera position and video layout of the IP decoding monitor and the IP decoding box can be managed via the Genetec Security Centre.

Genetec Security Centre plug-in

EIZO and Genetec collaborated to design a plugin that fulfils many sought-after end user requirements for security systems across the world. By integrating the Genetec™ Security Centre video wall framework, users can easily setup and manage EIZO's DuraVision IP decoding monitors and IP decoding box remotely. Using the Security Centre interface, operators can simply drag and drop the video feed from registered cameras to the desired position and the settings will be automatically reflected on the target monitor. The number and layout of the video feeds can also be easily configured on the same screen. DuraVision IP decoding solutions can also respond to dynamic instructions from Security Centre when specific events occur, such as expanding the screen in response to unauthorised access.

Secure investment with support for over 250 cameras

The DuraVision DX0211-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 (direct URI) (currently supports ONVIF Profile S; Axis VAPIX and Panasonic protocol support is planned for the end of 2019)

Further information on camera compatibility can be found here.

Register up to 16 IP cameras

Up to 64 different IP cameras, including 4K cameras, can be registered with the DuraVision DX0211-IP box 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 (currently supports registration of up to 16 cameras.; registration of up to 64 cameras is planned for the end of 2019).

Connect up to 64 IP cameras to the DuraVision DX0211-IP via a network switch.

Features

User control with USB connection

The IP decoding box is equipped with a USB downstream port so that you can connect a USB-supported mouse, keyboard or programmemable joystick to control and navigate the user interface or web UI. To maintain access security, the USB port does not support USB memory or storage devices, which means you can rest assured that data will not be transferred to or from the box.

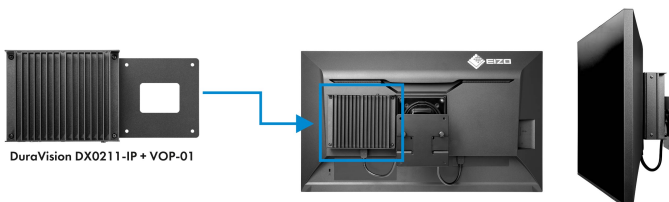## Upgraded functionality by means of firmware updates

EIZO's in-house development team continues to integrate upgraded features and functions in its IP decoding solutions by means of scheduled firmware updates. By further developing these innovative updates in-house, EIZO is able to provide its customers with the latest functionality and technical support with the utmost efficiency and reliability.

Download the latest firmware.

Minimal footprint for mounted solutions

The DuraVision DX0211-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.

* EIZO monitors equipped with FlexStand 4 and quick release require the VESAMP100 mounting plate to attach to VESA-supported fixtures.
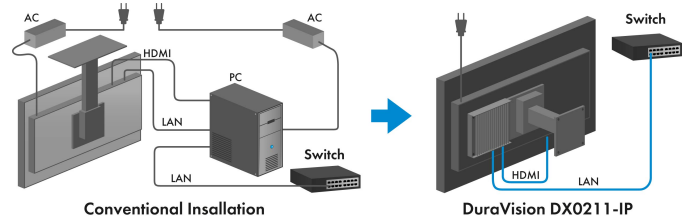
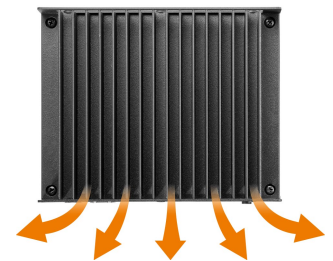DuraVision DX0211-IP + VOP-01

Power supplied without AC adapter

The DuraVision DX0211-IP is equipped with a PoE+ hub so that it stays powered without needing an AC adapter and cable, which keeps the installation area clear. An optional AC adapter is available for environments where PoE+ is not supported.

Conventional Insallation   DuraVision DX0211-IP

Fan-less solution with low heat output

The DuraVision DX0211-IP offers noiseless, fan-less operation while maintaining low heat output for long-term reliability. The top of the box 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 4 (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 DX0211-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 4 (quick release) require the VESAMP100 to attach to VESA-supported fixtures).

VESAMP   VOP-01

Features

24/7 use guaranteed

The IP decoding solution is designed for zero-maintenance operation around the clock and is protected from unauthorised access. It does not require virus scanners, security updates, operating system maintenance or licences. This reduces maintenance expenditure considerably and prevents unnecessary downtimes as well as costs. The solution has been designed for round-the-clock use and boasts exceptional reliability. EIZO provides a two-year warranty

Specification

General

Item no.	DX0211-IP
Case colours	Black
Solutions	Industry, Video surveillance systems
Product line	DuraVision
EAN	4995047054252

Display

Screen size [in inches]	various monitors supported
Format	16:9, 5:4, 4:3, corridor
Ideal and recommended resolution	various monitors up to 4K UHD supported
Panel technology	IP-Decoder-Box

IP-Decoding

Video compression	H264, MJPEG, H.256 (from the end of 2019)
Number of simultaneous streams	3840 x 2160 / 20 fps x 4 streams, max. 4096 bit/s
Display Performance	[H.264] 1 x 3840x2160 / 20 fps 4 x 3840x2160 / 20 fps 9 x 1920x1080 / 25 fps 16 x 1920x1080 / 25 fps [MJEPEG] 640x480 / 30fps
Signal Output	HDMI
Maximum Output Signal	3840 x 2160 / 60 Hz
Layouts	1x1, 2x2, 3x3, 4x4, rotating, corridor format, user-defined

Features

Network connection	RJ-45
LAN Standards	IEEE802.3ab (1000BASE-T), IEEE802.3u (100BASE-TX), IEEE802.3at Type2 (PoE+)
Supported Transfer Protocols	ONVIF Profile S, RTSP, Axis VAPIX (by end of 2019), Panasonic (by end of 2019)

Electric data

Maximum Power Consumption [in watt]	25.5 (via PoE), 21,5 (via power adapter)
Power Supply	PoE / Power adapter; 42,5-57 V (48 V typ.)

Dimensions & Weights

Dimensions Without Stand [mm]	165x44,2x130
Weight Without Stand [in kilograms]	0.8
Hole Spacing	VESA standard 100 x 100 mm
24/7 operation	✔

Certification & Standards

Certification	CE

Software & Accessories

Additional Supply	Short HDMI signal cable – HDMI, Manual, Quick guide, Power cord

Warranty

Warranty and service	2 years