

VZ-3neo Visualizer System



Driving the Creation of Knowledge

VZ-3neo Visualizer System



WolfVision is a provider of systems and services to leading universities, businesses, schools, and other organizations. An acknowledged 'technology leader' in the Visualizer and presentation solutions market, WolfVision is the company that takes the lead, setting standards worldwide for innovative, reliable, user-friendly, high performance presentation, and collaboration solutions. Our entry-level VZ-3neo Visualizer system includes all the core features that every user requires, and it is customizable with a range of options providing maximum flexibility in system selection.



With more than 40 years experience, our extensive knowledge and expertise across all application sectors enables us to offer comprehensive consultative guidance on customized combinations of hardware systems, software, apps, and accessories, which enhance communication, collaboration, and knowledge sharing across all environments. As part of each individual \sqrt{S} Solution WolfVision offers not only pre-sales advice, but also post-sales support, training, and service, ensuring that you receive maximum benefit from your investment.



Our Vision

When you've got something to say, we believe it is important that getting your message across and making an impact should be as easy as possible.

Our aim is to help you to explain it better, to give you the freedom to share your knowledge and collaborate with others - however you want, and whenever you want, when your audience is in the same room or on the other side of the world.

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Because knowledge matters - to all of us.

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High Performance Systems

WolfVision Visualizer systems are well-known for their unrivalled imaging quality, which is due to the perfect combination of high quality components and remarkable expertise. Our systems deliver high resolution throughout the entire picture, true-to-life colors, and consistently high frame rates to ensure smoothness of motion. They have fast and accurate autofocus and zooming, giving high quality dependable results every time! High end lenses provide distortion-free images, and high tech lighting systems deliver smooth and consistent lighting without distracting reflections or hot spots.

WolfVision's state-of-the-art YSOP1 image processing engine enables the fast and efficient processing of high volumes of data, ensuring the consistent real-time display of impressive high-definition pictures with unsurpassed levels of accuracy and detail.



Key Features

Flexible Zoom Range

The VZ-3neo Visualizer comes with a 12x zoom (6x optical and 2x digital), which can pick up objects as large as an open book or as small as a credit card in full size to fill a screen.

Power over Ethernet Plus

The LAN port of the VZ-3neo includes Power over Ethernet Plus (PoE+) functionality, compatible with devices meeting the IEEE 802.3at industry standard. Power over Ethernet is a popular way of saving on cables and installation costs.

Protect Your Investment

There is a thread on the bottom of the working plate for attaching the unit to a table with the supplied table lock bolt. Additionally, T-Lock (Kensington® Lock) devices can also be used.

Optional Wireless Connectivity

The optional BYOD feature pack comprises a WLAN stick and an accompanying firmware upgrade that enables the VZ-3neo to be used with the vSolution Connect and vSolution Control apps (see page 7).



Adjustment-Free Lighting

The light system is optimized for the working surface, so there is never any need to adjust the light. An extremely long lifetime of 30,000 hours can be considered as maintenance free for most installations.

High Resolution Camera

WolfVision's VZ-3neo Visualizer system features a 1-CMOS native 1080p full HD camera with 30 frames per second and sRGB color precision, giving 980 lines of visible resolution in every part of the picture.

Write On Your Visualizer!

An optional dry-erase working surface is available for the VZ-3neo Visualizer. This allows a user to write directly onto the working surface during a presentation, enabling the device to be used spontaneously as a whiteboard or 'digital flip chart.'

Easy To Use / Zoom Wheel

For standard operation, users only need to use the multiple-speed zoom wheel on top of the camera head. All other controls such as focus, brightness, etc., are adjusted automatically.

Space-Saving Imaging

Flexible Installation Options

VZ-3neo Visualizers are highly compact and portable systems that can easily be used to serve a number of different rooms. They are available either with or without an integrated working surface.

The version without working plate enables permanent mounting directly onto a desktop or podium using the supplied 'swivel plate'. The added advantage of this, is that the unit can be rotated sideways through 90° facilitating easy storage, and allowing the desktop surface area to remain completely obstruction-free.

upThis option is particularly useful if there are space restrictions, and it provides an additional installation option if the unit is required to fit into a particular room design. It is an ideal solution if the unit is to be installed on a podium.







Flexible Connectivity

√Solution Connect App for Tablets

Sync your VZ-3neo with vSolution Connect, our powerful app for tablets. This app enables all media types, whether stored locally or in Dropbox, to be integrated into presentations, and controlled easily using a single device. A live image preview shows exactly what the audience sees onscreen, and wireless connectivity (with optional BYOD feature pack) allows content material to be controlled from anywhere in the room.



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√Solution Control for Smartphones

The vSolution Control app enables iPhone, Windows 8, Windows Phone 8 or Android devices to connect to the Visualizer via WLAN. This intuitive and easy-to-use app allows presenters to use the device keypad and live image preview to wirelessly control a VZ-3neo Visualizer system during presentations and lectures.

√Solution Link for PC and Mac

vSolution Link software allows a user to connect a computer directly to a VZ-3neo system. The software enables saving, printing and emailing of images, recording of videos, adding annotations and video streaming. It also provides useful tools for automatically applying firmware updates,

which helps to extend the life of your investment, and allows new features and technical improvements to be added at no cost!

Creating Unique Multimedia Presentations

During a presentation, the 'Source' key on the Visualizer can be used to switch between Visualizer images and computer images from a PC that is connected to the external HDMI input of the Visualizer system. There is no need to use a separate remote control from a projector or monitor in order to switch image sources.

Technical Data

Converted widescreen output signals (16:9 and 16:10) Resolution (measured) Brightness control White balance adjustment Autofocus / Speed Manual focus On-screen menu and on screen help Firmware Updates via Zoom / Lens Lens type Max. pick-up area on working surface Max. pick-up area on working surface (in full resolution with optical zoom) Min. pick-up area on working surface (in full resolution with optical zoom) Depth of focus on small object: 66 x 36mm (2.6" x 1.4") Depth of focus on large object: 360 x 200mm (14.1" x 7.9") Light source vSolution Link (USB/LAN, for controlling, image and video capturing, and firmware updates) UVC driver for Windows, Linux, and OS X (Mac) vSolution Orpa compatible Reflection-free area on working surface Intelligent folding system User defined settings on USB stick User programmable presets Swivel plate with 90° rotation Special working surface for transparencies Dry-erase working surface Side pick-up Bottom light External computer input / Input switch Seamless cross-fading between	1-CMOS 1/3" 30 frames (in all resolutions) 1920x1080 (=2,073,600) 2,073,600 62,208,000 Very good colors (sRGB color precision) 1080p HD (1920x1080) 1600x1200), SXGA (1280x1024) XGA (1024x768), SVGA, (800x600) 720p HD (1280x702), WUXGA (1920x1200), WXGA (1280x800) 980 lines Automatic and manual Automatic and manual Yes Yes USB, LAN, USB stick 12x zoom (6x optical, 2x digital) multiple-speed zoom wheel Wide angle, 28mm, 14.7 200mm (8.0") in tele position 320mm (12.6") in wide position Length: 290mm (11.42"), Width: 400mm (15.75")
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Lens type Max object height on working surface Max, pick-up area on working surface (in full resolution with optical zoom) Min. pick-up area on working surface (with digital zoom) Depth of focus on small object: 66 x 36mm (2.6" x 1.4") Depth of focus on large object: 360 x 200mm (14.1" x 7.9") Light source VsOlution Link (USB/LAN, for controlling, image and video capturing, and firmware updates) UVC driver for Windows, Linux, and OS X (Mac) VSOlution Cynap compatible Reflection-free area on working surface Intelligent folding system User defined settings on USB stick User programmable presets Swivel plate with 90° rotation Special working surface Slide pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Connectors Ix Maximum Computer (2.4GHz & 5GHz) RS22 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	Wide angle, 28mm, f4.7 200mm (8.0") in tele position 320mm (12.6") in wide position
Max object height on working surface Image: Surface on Working surface (in full resolution with optical zoom) Min. pick-up area on working surface (with digital zoom) Image: Surface (with digital zoom) Depth of focus on small object: 66 x 36mm (2.6" x 1.4") Image: Surface (with digital zoom) Depth of focus on large object: 360 x 200mm (14.1" x 7.9") Image: Surface (with digital zoom) Light source Maximum surface (with digital zoom) VSolution Link (USB/LAN, for controlling, image and video capturing, and firmware updates) Image: Surface (Wac) UVC driver for Windows, Linux, and OS X (Mac) VSolution Cynap compatible Reflection-free area on working surface Intelligent folding system User defined settings on USB stick User programmable presets Swivel plate with 90° rotation Special working surface for transparencies Dry-erase working surface Silde pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Eult-in digital scaler for the computer input Image memory Alternative Image display Connectors Output Ethernet / LAN port LAN web interface Integrated	200mm (8.0") in tele position 320mm (12.6") in wide position
Max. pick-up area on working surface Min. pick-up area on working surface (in full resolution with optical zoom) Min. pick-up area on working surface (with digital zoom) Depth of focus on small object: 66 x 36mm (2.6" x 1.4") Depth of focus on small object: 360 x 200mm (14.1" x 7.9") Light source vSolution Link (USB/LAN, for controlling, image and video capturing, and firmware updates) UVC driver for Windows, Linux, and OS X (Mac) vSolution Cynap compatible Reflection-free area on working surface Intelligent folding system User defined settings on USB stick User programmable presets Swivel plate with 90° rotation Special working surface for transparencies Dry-erase working surface Slide pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Connectors 1x H Output Ethernet / LAN port LAN web interface Integrated WLAN	
Min. pick-up area on working surface (in full resolution with optical zoom) Min. pick-up area on working surface (with digital zoom) Depth of focus on large object: 66 x 36mm (2.6" x 1.4") Depth of focus on large object: 360 x 200mm (14.1" x 7.9") Light source VSolution Link (USB/LAN, for controlling, image and video capturing, and firmware updates) UVC driver for Windows, Linux, and OS X (Mac) vSolution Cynap compatible Reflection-free area on working surface Intelligent folding system User defined settings on USB stick User programmable presets Swivel plate with 90° rotation Special working surface Dry-erase working surface Slide pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) Wolfvision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Connectors 1x H Output Ethernet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz)	Length: 290mm (11.42"), Width: 400mm (15.75")
Min. pick-up area on working surface (in full resolution with optical zoom) Min. pick-up area on working surface (with digital zoom) Depth of focus on large object: 66 x 36mm (2.6" x 1.4") Depth of focus on large object: 360 x 200mm (14.1" x 7.9") Light source VSolution Link (USB/LAN, for controlling, image and video capturing, and firmware updates) UVC driver for Windows, Linux, and OS X (Mac) vSolution Cynap compatible Reflection-free area on working surface Intelligent folding system User defined settings on USB stick User programmable presets Swivel plate with 90° rotation Special working surface Dry-erase working surface Slide pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) Wolfvision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Connectors 1x H Output Ethernet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz)	
Min. pick-up area on working surface (with digital zoom) Depth of focus on small object: 66 x 36mm (2.6" x 1.4") Depth of focus on large object: 360 x 200mm (14.1" x 7.9") Light source VSolution Link (USB/LAN, for controlling, image and video capturing, and firmware updates) UVC driver for Windows, Linux, and OS X (Mac) vSolution Cynap compatible Reflection-free area on working surface Intelligent folding system User defined settings on USB stick User verified settings on USB stick User defined settings on USB stick User programmable presets Swivel plate with 90° rotation Special working surface for transparencies Dry-erase working surface Slide pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) WolfVision im	66 x 50mm (2.6" x 2.0")
Depth of focus on small object: 66 x 36mm (2.6" x 1.4") Depth of focus on large object: 360 x 200mm (14.1" x 7.9") Light source Ma vSolution Link (USB/LAN, for controlling, image and video capturing, and firmware updates) Ma UVC driver for Windows, Linux, and OS X (Mac) vSolution Cynap compatible Reflection-free area on working surface Intelligent folding system User defined settings on USB stick User orgrammable presets Swivel plate with 90° rotation Special working surface for transparencies Dry-erase working surface Silde pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Eult-in digital scaler for the computer input Image memory Alternative Image display Connectors 1x H Output Ethernet / LAN port LAN web interface Intelling attack for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H) Evencel	33 x 26mm (1.3" x 1.0")
Depth of focus on large object: 360 x 200mm (14.1" x 7.9") Main control in the intervention of the intervent of the intervention of the interventintervention of	15mm (0.6")
Light source Ma Usport VSolution Link (USB/LAN, for controlling, image and video capturing, and firmware updates) Ma UVC driver for Windows, Linux, and OS X (Mac) VSolution Cynap compatible Reflection-free area on working surface Intelligent folding system User defined settings on USB stick User programmable presets Swivel plate with 90° rotation Special working surface Dry-erase working surface Dry-erase working surface Slide pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) Wolfvision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Ix H Output Ethernet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H) Ethernet / L X W x H)	260mm (10.2")
Light source vSolution Link (USB/LAN, for controlling, image and video capturing, and firmware updates) UVC driver for Windows, Linux, and OS X (Mac) vSolution Cynap compatible Reflection-free area on working surface Intelligent folding system User defined settings on USB stick Special working surface for transparencies Dry-erase working surface Stilde pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) WolfVision image processing engine "YSOP1"	ntenance-free high-brightness LED light system (high light output, low power
and firmware updates) Image of the compatible UVC driver for Windows, Linux, and OS X (Mac) Vsolution Cynap compatible Reflection-free area on working surface Intelligent folding system User defined settings on USB stick User programmable presets Swivel plate with 90° rotation Special working surface for transparencies Dry-erase working surface Slide pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) Wolfvision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Connectors 1x H Output Ethernet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H) Ethernet / L X W x H)	consumption), lamp lifetime: 30,000 hours
and firmware updates) Image memory UVC driver for Windows, Linux, and OS X (Mac) VSolution Cynap compatible Reflection-free area on working surface Intelligent folding system User defined settings on USB stick User programmable presets Swivel plate with 90° rotation Special working surface for transparencies Dry-erase working surface Slide pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Uilt-in digital scaler for the computer input Image memory Image memory Alternative Image display Ix H Output Ethernet / LAN port LAN web interface Interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	Included (for 32 and 64-bit Windows and Macintosh,
UVC driver for Windows, Linux, and OS X (Mac) vSolution Cynap compatible Reflection-free area on working surface Intelligent folding system User defined settings on USB stick User programmable presets Swivel plate with 90° rotation Special working surface for transparencies Dry-erase working surface Slide pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Connectors 1x H Output Ethernet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	
vSolution Cynap compatible Reflection-free area on working surface Intelligent folding system User defined settings on USB stick User programmable presets Swivel plate with 90° rotation Special working surface for transparencies Dry-erase working surface for transparencies Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Connectors Output Ethernet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	Twain/WIA compatible)
Reflection-free area on working surface Intelligent folding system User defined settings on USB stick User programmable presets Swivel plate with 90° rotation Special working surface for transparencies Dry-erase working surface Slide pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Connectors Output Ethernet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	Yes
Intelligent folding system User defined settings on USB stick User programmable presets Swivel plate with 90° rotation Special working surface for transparencies Dry-erase working surface Slide pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Connectors 1x H Output Ethernet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	Yes
User defined settings on USB stick User programmable presets Swivel plate with 90° rotation Special working surface for transparencies Dry-erase working surface Slide pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Connectors 1x H Output Ethemet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	Whole working surface
User programmable presets Swivel plate with 90° rotation Special working surface for transparencies Dry-erase working surface Slide pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Connectors Output Ethermet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	Mechanical arm
Swivel plate with 90° rotation Special working surface for transparencies Dry-erase working surface Bidte pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Connectors 1x H Output Ethernet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	Yes
Special working surface for transparencies Image for transparencies Dry-erase working surface Image for transparencies Slide pick-up Image for transparencies Bottom light Image for transparencies External computer input / Input switch Image for the comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Image memory Built-in digital scaler for the computer input Image memory Alternative Image display Image for the computer input Connectors 1x H Output Image memory RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H) Image memory	1
Dry-erase working surface Slide pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Connectors Output Ethernet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	Optional
Slide pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Connectors 1x H Output Ethernet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	Yes (not included with optional swivel plate version)
Slide pick-up Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Connectors 1x H Output Ethernet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	Optional
Bottom light External computer input / Input switch Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Built-in digital scaler for the computer input Built-in digital scaler for the computer input Image memory Alternative Image display Connectors Output Ethernet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H) Ethernet / Lan yout	With optional lightbox
External computer input / Input switch Image comparison (Picture in Picture) Seamless cross-fading between image sources Image comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Image comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Image comparison (Picture in Picture) Image memory Image memory Alternative Image display Image comparison (Picture in Picture) Connectors 1x H Output Image memory Ethemet / LAN port Image comparison (Picture in Picture) LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H) Image comparison (L x W x H)	With optional lightbox
Seamless cross-fading between image sources Live to Freeze Comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Connectors Output Ethernet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	Yes, HDMI (DVI via optional adapter cable)
Live to Freeze Comparison (Picture in Picture) WolfVision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Connectors Output Ethernet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	Optional
WolfVision image processing engine "YSOP1" Built-in digital scaler for the computer input Image memory Alternative Image display Connectors 0utput Ethernet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	Yes
Built-in digital scalar for the computer input Image memory Alternative Image display Connectors 1x H Output Ethernet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	Yes
Image memory Image memory Alternative Image display Ix H Connectors 1x H Output Image memory Ethemet / LAN port Image memory LAN web interface Image memory Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Image memory Dimensions in operation (L x W x H) Image memory	
Alternative Image display 1x H Connectors 1x H Output 1x Ethemet / LAN port 1x LAN web interface 1x Integrated WLAN (dual band stick for 2.4GHz & 5GHz) 1x RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H) 1x	Yes (processes the signal from HDMI input for HDMI output)
Connectors 1x H Output 1 Ethernet / LAN port 1 LAN web interface 1 Integrated WLAN (dual band stick for 2.4GHz & 5GHz) 1 RS232 port 2 Advanced controlling with professional protocol 2 Dimensions in operation (L x W x H) 1	1 image freeze
Output Ethermet / LAN port Ethermet / LAN port Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port RS232 port Advanced controlling with professional protocol Integration (L x W x H)	Negative image / negative-blue image / black and white image
Output Ethernet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	0MI in, 1x HDMI out, IP addressable LAN port, mini USB 2.0 device port, USB
Ethemet / LAN port LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	2.0 host port,
LAN web interface Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	HDMI (DVI output via optional HDMI-DVI adapter cable)
Integrated WLAN (dual band stick for 2.4GHz & 5GHz) RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	Yes, with PoE+
RS232 port Advanced controlling with professional protocol Dimensions in operation (L x W x H)	
Advanced controlling with professional protocol Dimensions in operation (L x W x H)	Yes
Advanced controlling with professional protocol Dimensions in operation (L x W x H)	Yes Optional via BYOD feature pack
Dimensions in operation (L x W x H)	
	Optional via BYOD feature pack - (if required external LAN to RS232 adapters can be used)
	Optional via BYOD feature pack - (if required external LAN to RS232 adapters can be used) Yes, via LAN and USB
Weight	Optional via BYOD feature pack - (if required external LAN to RS232 adapters can be used) Yes, via LAN and USB 488mm x 305mm x 525mm (19.2" x 12" x 20.7")
	Optional via BYOD feature pack - (if required external LAN to RS232 adapters can be used) Yes, via LAN and USB 488mm x 305mm x 525mm (19.2" x 12" x 20.7") 574mm x 305mm x 135mm (22.6" x 12" x 5.3")
Operating temperature / relative humidity	Optional via BYOD feature pack - (if required external LAN to RS232 adapters can be used) Yes, via LAN and USB 488mm x 305mm x 525mm (19.2" x 12" x 20.7") 574mm x 305mm x 135mm (22.6" x 12" x 5.3") 3.76kg (8.3lbs)
Anti-theft devices	Optional via BYOD feature pack - (if required external LAN to RS232 adapters can be used) Yes, via LAN and USB 488mm x 305mm x 525mm (19.2" x 12" x 20.7") 574mm x 305mm x 135mm (22.6" x 12" x 5.3") 3.76kg (8.3lbs) 0°-40°C (32°-104°F) / 40-60%
Power Exter	Optional via BYOD feature pack - (if required external LAN to RS232 adapters can be used) Yes, via LAN and USB 488mm x 305mm x 525mm (19.2" x 12" x 20.7") 574mm x 305mm x 135mm (22.6" x 12" x 5.3") 3.76kg (8.3lbs) 0°-40°C (32°-104°F) / 40-60% T-Lock (Kensington® Lock), and table lock bolt
	Optional via BYOD feature pack - (if required external LAN to RS232 adapters can be used) Yes, via LAN and USB 488mm x 305mm x 525mm (19.2" x 12" x 20.7") 574mm x 305mm x 135mm (22.6" x 12" x 5.3") 3.76kg (8.3lbs) 0°-40°C (32°-104°F) / 40-60% T-Lock (Kensington® Lock), and table lock bolt al desktop power pack 12V: multi range 100-240V, 24W, Power over Etherne
Included accessories Cable	Optional via BYOD feature pack - (if required external LAN to RS232 adapters can be used) Yes, via LAN and USB 488mm x 305mm x 525mm (19.2" x 12" x 20.7") 574mm x 305mm x 135mm (22.6" x 12" x 5.3") 3.76kg (8.3lbs) 0°-40°C (32°-104°F) / 40-60% T-Lock (Kensington® Lock), and table lock bolt al desktop power pack 12V: multi range 100-240V, 24W, Power over Etherne Plus (IEEE 802.3at-2009 standard)
	Optional via BYOD feature pack - (if required external LAN to RS232 adapters can be used) Yes, via LAN and USB 488mm x 305mm x 525mm (19.2" x 12" x 20.7") 574mm x 305mm x 135mm (22.6" x 12" x 5.3") 3.76kg (8.3lbs) 0°-40°C (32°-104°F) / 40-60% T-Lock (Kensington® Lock), and table lock bolt al desktop power pack 12V: multi range 100-240V, 24W, Power over Etherne Plus (IEEE 802.3at-2009 standard) shield, power supply with cord 1.8m (5'11"), LAN cable 1.8m (5'11"), mini USE
Warranty	Optional via BYOD feature pack - (if required external LAN to RS232 adapters can be used) Yes, via LAN and USB 488mm x 305mm x 525mm (19.2" x 12" x 20.7") 574mm x 305mm x 135mm (22.6" x 12" x 5.3") 3.76kg (8.3lbs) 0°-40°C (32°-104°F) / 40-60% T-Lock (Kensington® Lock), and table lock bolt al desktop power pack 12V: multi range 100-240V, 24W, Power over Etherne Plus (IEEE 802.3at-2009 standard)

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