

# Systems & Solutions



# Driving Knowledge Creation

WolfVision is a provider of systems and services to leading universities, businesses, schools, courtrooms, and other organisations. An acknowledged 'technology leader' in the wireless presentation and Visualizer solutions market, WolfVision is the company that takes the lead, setting standards worldwide for innovative, reliable, user-friendly, high performance presentation, web conferencing, collaboration, and knowledge sharing solutions.



With more than 50 years experience, our extensive knowledge and expertise across all application sectors enables us to offer comprehensive consultative guidance on customised combinations of hardware systems, software, apps, and accessories, which enhance communication, collaboration, and knowledge sharing across all environments. As part of each individual 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.



# Flexible working & learning

## In-person & hybrid meeting rooms



WolfVision presentation and collaboration systems are used by leading companies worldwide, to support effective communication and collaboration in the workplace.

Whether the requirement is for "live" imaging of physical materials, or for high quality display of multi-source, multi-window digital content for in-person, hybrid, or online meetings, WolfVision offers a range of high performance systems, that ensure that meeting participants are able to deliver their message to audiences in the most effective manner possible.

## Education & Training



WolfVision Cynap and Visualizer systems are used daily by universities and other educational institutions, supporting the skills and efforts of teaching staff in communicating and engaging with in-classroom, online and hybrid student audiences.

Our cost-effective, easy-to-use, AV over IP-based, multi-screen, vSolution MATRIX active learning classroom solutions, help to create dynamic learning spaces that encourage increased student engagement, interaction, and collaboration.

## Courtroom & Legal



WolfVision Visualizer systems enable crime weapons, documents from expert witnesses, or evidence of any type to be easily shown to all court participants in fine detail, without any interruption to proceedings.

WolfVision evidence presentation technology solutions are popular in hybrid courtroom environments, helping to facilitate simultaneous in-person and remote participation in court proceedings.

“

We have been really surprised to see just how much advantage the wireless technology gives us when collaborating, when presenting, and during our workshop days, and we see this as a clear advantage for our facility in comparison to other facilities.”

Mr. Tilman Hampl  
Technical Director  
ZDI Mainfranken  
Germany

# Choose your Cynap system!



## CYNAP PURE MINI

### Entry-level wireless screen sharing

Simple wireless screen sharing from any laptop, smartphone or tablet. This easy-to-use model is perfect for smaller classrooms, meeting rooms and huddle spaces everywhere.



## CYNAP PURE

### Presentations made easy

Compact wireless BYOM / BYOD presentation system with all the functionality of Cynap Pure Mini plus additional useful features. Like all Cynap family systems, supports AirPlay, Miracast, and Chromecast for unique app-free, dongle-free wireless screen sharing.



## CYNAP PURE PRO

### Outstanding wireless presentation, web conferencing & collaboration

Ideal add-on to existing infrastructure, with all the functionality of Cynap Pure, plus some of the features of our larger Cynap systems. Provides high performance wireless screen mirroring, together with a range of popular collaboration tools.



## CYNAP CORE PRO

### Advanced collaboration & presentation

Easy to use, providing 'core essential' collaboration features. Advanced network integration options make it an ideal centrepiece for smaller installations, and it is also a key component of our vSolution MATRIX multi-workstation, active learning classroom solution.

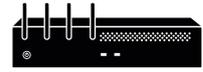
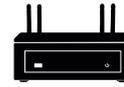


## CYNAP PRO

### Centrepiece for the modern classroom, meeting room or courtroom

Powerful 'all-in-one' presentation and collaboration system, with media player, web conferencing, recording and streaming, wireless screen sharing, whiteboard, and lots more. Also the 'main station' of our vSolution MATRIX solution.

# Cynap Overview



Features	Cynap Pure Mini	Cynap Pure	Cynap Pure Pro	Cynap Core Pro	Cynap Pro
4 window wireless screen sharing	✓	✓	✓	✓	✓
Touchback function	✓	✓	✓	✓	✓
Enterprise level security	✓	✓	✓	✓	✓
Flexible network integration	✓	✓	✓	✓	✓
Remote management tool	On Premise	Cloud & On Premise	Cloud & On Premise	Cloud & On Premise	Cloud & On Premise
Room management APIs	✓	✓	✓	✓	✓
Peripheral device control	✓	✓	✓	✓	✓
Audio/Video USB	Audio	Audio (Video only BYOM)	Audio & Video	Audio & Video	Audio & Video
Whiteboard & annotation	✗	✓	✓	✓	✓
Live Viewer Mode	✗	✓	✓	✓	✓
BYOM Web Conferencing	✗	✓	✓	✓	✓
Digital Signage Player	✗	✓	✓	✓	✓
Document & Media Player	✗	✗	✓	✓	✓
Multi-Platform Web Conferencing	✗	✗	✓	✓	✓
IP stream receive	✗	✗	Receive	Receive	Send & Receive
Integrated Web browser	✗	✗	✓	✓	✓
Microsoft 365 (incl. Teams meetings)	✗	✗	✓ <sup>FP</sup>	✓	✓
HDMI input	✗	✗	✗	1x	2x
Q-SYS Core Integration	✗	✗	✗	✓	✓
vSolution MATRIX	✗	✗	✗	Client	Client & main station <sup>FP</sup>
Lecture Capture	✗	✗	✗	✓ <sup>FP</sup>	✓
HD Video recording	✗	✗	✗	✓ <sup>FP</sup>	✓
Webcasting	✗	✗	✗	✓ <sup>FP</sup>	✓
vSolution COMPOSER	✗	✗	✗	✗	✓

# Cynap Pure systems: No apps, no buttons, no cables!

When you're looking for a BYOD / BYOM wireless presentation solution for your organisation – look no further than Cynap Pure Mini, Cynap Pure, or Cynap Pure Pro, the leading solutions for meeting rooms, classrooms and huddle spaces everywhere.

With support for AirPlay, Miracast, and Chromecast screen mirroring, these models deliver best-in-class wireless screen sharing, and whether you choose the entry-level Cynap

Pure Mini, or the Cynap Pure or Cynap Pure Pro models with additional features, such as whiteboarding, or built-in multi-platform and BYOM web conferencing, you can be sure of crystal clear, 4K UHD resolution, unrivaled ease of use, and a collaborative working and learning experience that is second to none.



## Pure perfection!

- >> Easy to setup, simple to use
- >> Hassle-free screen sharing for all smartphones, laptops & tablets
- >> No apps, no dongles required
- >> Enterprise level security
- >> Outstanding hardware performance
- >> Remote management tools



**4K**  
ULTRA HD

# Wireless presentation & collaboration made easy!

## Whiteboarding & Annotation tools



Add to your content material using our annotation feature - or use the built-in whiteboard to note down your ideas. Pin material such as output from a connected camera or Visualizer to the screen, or use the mind map function for a superb collaborative experience.

*\* Not available on Cynap Pure Mini*

## 4K UHD output resolution



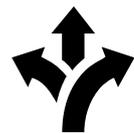
4K UHD output resolution at 60 frames per second ensures that on-screen content from any device always looks superb, and the innovative touchback feature gives you latency-free remote control of your laptop while working at the main screen.

## Enterprise level security



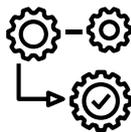
Network security is a key consideration, and our custom-built, closed, Linux system offers 100% wireless data encryption, IEEE802.1x authentication, plus customisable security features to give you exactly the level of protection you require.

## Professional integration



Cynap Pure models can be set up and used immediately. Settings are easy to configure, and customisable/prepared API modules ensure professional integration, whatever your requirements.

## Remote management & administration



vSolution Link Pro software is supplied free of charge, facilitating easy remote setup, monitoring, management, and updating of multiple systems across multiple locations.

## Introducing BYOM web conferencing



Available for models, Cynap Pure and above, BYOM (bring your own meeting) web conferencing functionality enables users to host a web meeting wirelessly using any conferencing service directly from their own laptop.

## Live Viewer Mode / Moderator Mode



Encourage collaborative working and learning using the unique browser-based Live Viewer Mode, which enables multiple users to receive on-screen content (wired or wireless) from the main display onto their own personal devices for easy viewing.

In Moderator Mode, Cynap Pure, and Cynap Pure Pro allow authorised multiple users to write on a whiteboard, and Cynap Pure Pro also adds the possibility for multiple users to annotate over any open window.

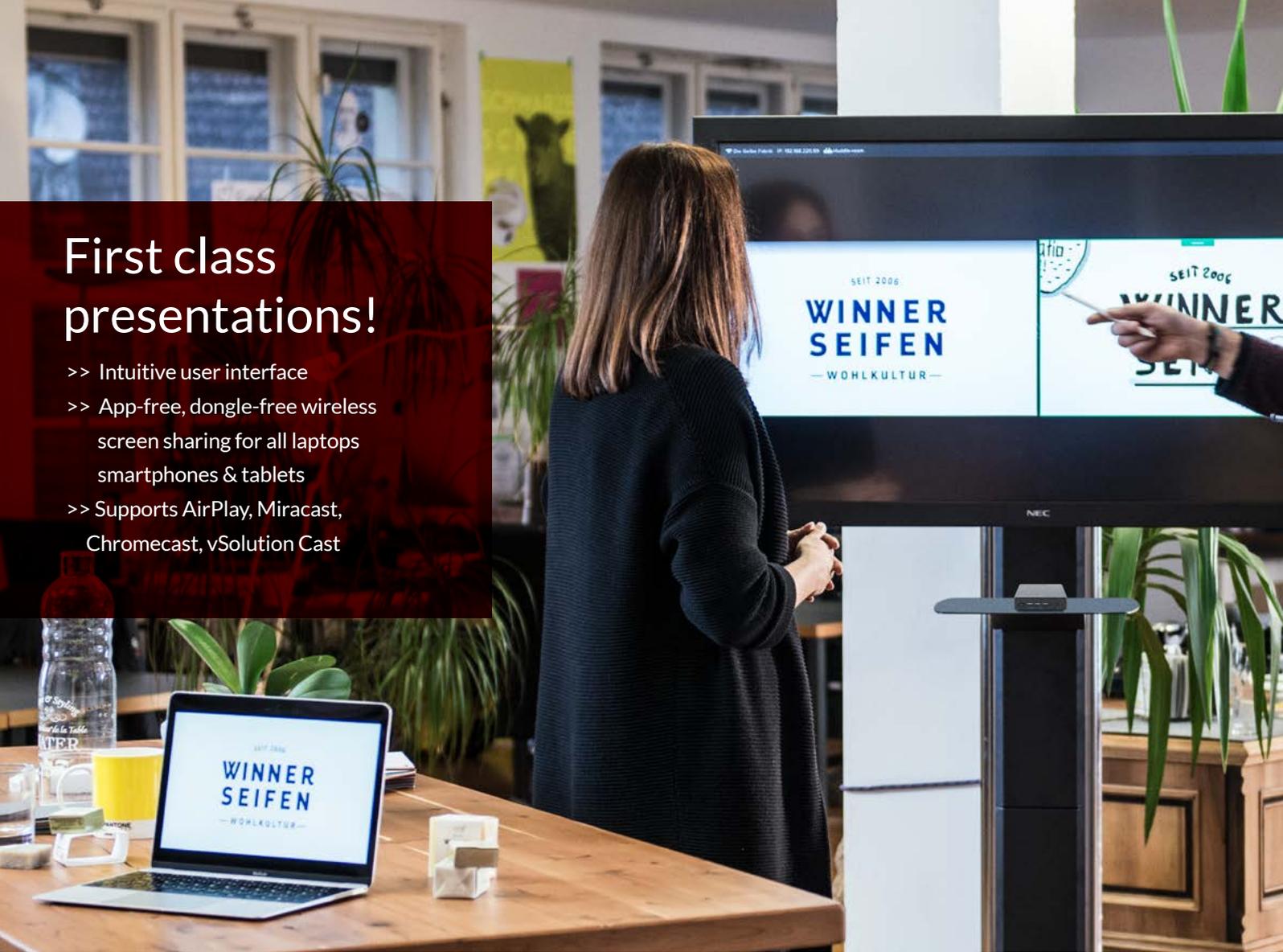
Simply toggling the WolfVision vSolution App to BYOM Mode on a laptop enables swift wireless connection to a Cynap, plus any connected camera, microphones, and speaker peripherals already installed in the meeting room.

Content is also be shared into the web conference from any other laptop, smartphone or tablet, for a superb collaborative hybrid working and learning experience.



## First class presentations!

- >> Intuitive user interface
- >> App-free, dongle-free wireless screen sharing for all laptops smartphones & tablets
- >> Supports AirPlay, Miracast, Chromecast, vSolution Cast



# Cynap Pure Pro: Flexible presentation & collaboration!

With all the functionality of Cynap Pure, plus many of the features of our larger Cynap systems, Cynap Pure Pro provides app-free, button-free wireless screen mirroring, combined with a range of other popular collaboration tools. Meeting rooms, classrooms and huddle spaces can all benefit from the extra features such as Zoom and optional Microsoft Teams meeting integration, a built-in document and media player, web browser, and much more - all operated seamlessly using our award-winning, easy-to-use Cynap GUI.





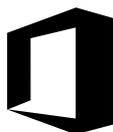
# Cynap Pure Pro: Web conferencing & MS 365 integration

## Access your files from any source



Data is shared on-screen easily from cloud, network drives or mobile devices – even laptops are no longer essential – just bring your content on a USB stick, or download directly from the cloud!

## Optional Microsoft 365 feature pack



Access popular Microsoft 365 apps directly from Cynap Pure Pro including Microsoft Teams (active Microsoft 365 account required). Files are easy to open, work on collaboratively, and share with teammates.

## Integrated web browser



Display web-based content side by side on-screen, together with your regular presentation materials for incredible flexibility in classrooms or meeting rooms - secure and virus-free browsing.

## Multi-platform web conferencing!



In addition to BYOM web meeting functionality, Cynap Pure Pro models and above also offer multi-platform web conferencing, which enables the web conference to run directly on the Cynap device itself, instead of on the meeting host's laptop.

Available for Zoom, MS Teams\* or WebRTC-based services, it's a great alternative to BYOM, and wireless conferencing sessions using simple standardised workflows are easily started and controlled, from a touchscreen, or using any laptop, smartphone, or tablet.

WebRTC zoom



\* For Cynap Pure Pro, MS Teams is only available when using the optional Microsoft 365 Feature Pack Upgrade.

# Cynap Core Pro: Next generation working & learning

Cynap Core Pro is a wireless presentation, web conferencing and collaboration system, providing screen sharing for all iOS, Android, Windows, macOS, and Chrome OS devices, together with a unique set of collaboration and web conferencing tools. It delivers an outstanding multi-functional collaborative working experience, ideal for hybrid or in-person classrooms, meeting spaces and courtrooms, and multiple units are also used as client devices as part of our vSolution MATRIX Networked-AV solution.

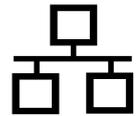


## No apps, no dongles, no cables, no hassle!



Cynap Core Pro supports AirPlay, Miracast, and Chromecast protocols, so no apps, buttons, dongles or extra software are needed when sharing content on-screen from any smartphone, laptop or tablet.

## Implementation advantages



The ability to configure three separate networks (ie. BYOD WiFi, control and admin, and internet service, offers significant advantages when planning your working and learning environments.

## Best of both worlds connectivity!



Multi-source wireless screen sharing makes working together easier than ever before. For installations that require additional connectivity options, an HDMI In port is also provided, for example for connecting an in-room PC, document camera or camera.

## Display & share your files easily



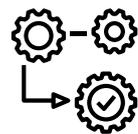
data on-screen easily from network drives, mobile devices or by using the Microsoft 365 interface. Even your laptop is no longer essential – simply bring your content on a USB stick, or download it directly from the cloud!

## Quick access to web-based content



A built-in web browser makes it simple to include web-based content into presentations. It's easy to access, and you can even save your own bookmarks ,and customize the screensaver as required.

## Remote administration software



Our vSolution Link Pro software is available free of charge. It enables remote setup, monitoring, management, and updating of multiple systems across multiple locations.

# Cynap Core Pro: Maximum collaboration!



## Hybrid working and learning made easy!

Multi-platform web conferencing runs Zoom, Teams and other WebRTC-based services directly on a Cynap, controlled via any laptop, smartphone or tablet - or host sessions on your own laptop using our outstanding BYOM implementation.

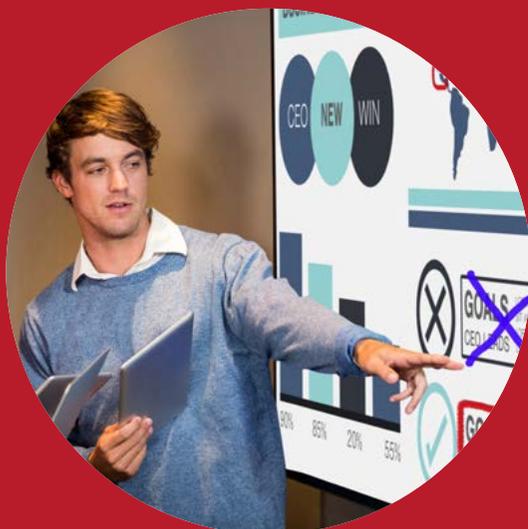
## Q-SYS Core integration

Our Q-SYS Core integration for Cynap Core Pro systems enables room control, automation, and remote monitoring to operate seamlessly together with our award-winning Cynap wireless presentation and collaboration systems.



## Whiteboard and annotation

Add to your content material using our built-in easy-to-use annotation features - or note down your ideas using the digital whiteboard, and save the output of both for further use.



## Optional lecture capture and webcasting functionality

Adding the optional Capture Feature Pack enables Cynap Core Pro to act as a capture agent for Panopto, and other compatible video management platforms. It also adds webcasting, and local recording capability.



# Cynap Pro: Centrepiece for the modern classroom, meeting room or courtroom

Cynap Pro is a wireless presentation, web conferencing and collaboration system, providing wireless screen sharing for all iOS, Android, Windows, macOS, and Chrome OS devices, together with a unique set of web conferencing and collaboration tools.

The ideal centrepiece for modern classrooms, meeting spaces and courtrooms, this easy-to-use, all-in-one AV appliance can help eliminate the need for racks full of equipment, or additional room control systems. It also includes the new Cynap multi-platform web conferencing solution, which runs directly on a Cynap.

Cynap Pro also acts as the 'main station' for our popular vSolution MATRIX AV over IP multi-screen collaboration solution.

## Wireless presentation made easy!



Support for AirPlay, Miracast, and Chromecast screen mirroring protocols ensures a consistent easy-to-use wireless screen sharing environment when sharing content onscreen from any laptop, smartphone or tablet.

## vSolution COMPOSER



When using two display screens, attaching a preview monitor to the third HDMI Out port enables preparation and viewing of content on a connected preview monitor before dragging and dropping it onto either the left or right-hand display screen when required.

## Q-SYS Core integration



We've partnered with Q-SYS to offer a Q-SYS UCI integration for Cynap Pro. The solution can be configured to provide Q-SYS room control, alongside our award-winning wireless presentation and collaboration functionality.





“Cynap is a powerful collaboration system that enables high performance presentation, recording, and distribution of all types of multimedia content material.”

Douglas Marsland, Head of Audiovisual Services, Heriot-Watt University, Edinburgh, UK

## Webcasting: Efficient knowledge sharing



Stream content easily for live or on-demand viewing. Additionally, students or work colleagues on the same network as the presenter can receive and record a stream of on-screen content on their own mobile devices.

## Video recording / Lecture capture agent



Easily record on-screen content locally together with video from a connected room camera, or use Cynap Pro as a capture device for Panopto, and other compatible video management platforms.

## Multi-platform web conferencing / BYOM



Multi-platform web conferencing runs Zoom, Teams and other WebRTC-based services directly on a Cynap Pro, using simple standardised workflows controlled via any laptop, smartphone or tablet. Alternatively, host sessions on your own laptop using our outstanding wireless BYOM implementation.

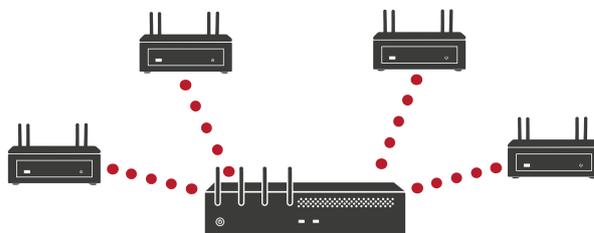


# MATRIX: Networked AV-based technology for active learning

vSolution MATRIX is an AV over IP-based collaboration solution from WolfVision, which uses multiple Cynap Pro / Cynap Core Pro units to stream video and audio between multiple screens using existing network infrastructure.

Available as a feature pack upgrade for Cynap Pro systems, it is ideal for active learning classrooms, training rooms, and courtrooms of all sizes, and for other applications where multiple display screens are deployed to leverage collaborative learning and working.

A single feature pack enabled Cynap Pro unit, designated as the 'main' system in the room, is connected to multiple workstations with either a Cynap Pro or a Cynap Core Pro system installed. Content is shared between connected monitors and the main screen in the



room with all processing performed by the installed Cynap systems themselves. This eliminates the need for additional encoding/decoding hardware.

Enterprise level encryption ensures secure delivery of content materials between workstations, and this scalable, cost effective, presentation and collaboration solution gives all the performance, and reliability associated with traditional AV distribution methods.



# Easy drag & drop control of multiple screens

A Cynap Pro / Cynap Core Pro system at every workstation ensures an intuitive and easy-to-use collaborative working environment for all users, and the simple drag and drop interface enables content to be moved effortlessly between different screens in the room.

The Room View is used to control pushing and pulling of content between displays, and flexible configuration settings enable up to 40 workstations to be configured using either names, numbers or colours, to exactly match the actual layout of individual learning spaces.

For installations using multiple room layouts, up to 5 Room View templates can be configured and stored for use when required. Up to 5 pre-defined groups can also be set up to suit environments where content needs to be pushed to specific groups of display screens.



## Cynap Pure Receiver: Extend your vSolution MATRIX installation

With the same form factor as the Cynap Pure, the Cynap Pure Receiver unit is an optional add-on for vSolution MATRIX. This unit can receive a stream from Cynap, enabling multiple additional screens to be easily added to rooms such as classrooms or jury rooms. A user controlling the session can authorise annotations made using the Pure Receiver.



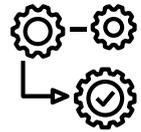
# vSolution MATRIX: Key benefits

## Multi-functional workspaces



Individual and multiple workstations can operate independently of the main central station, enabling room usage to be maximised. Workstations can be used for breakout groups, or for other small groups working independently during times when the entire room is not being used.

## Easy remote administration



Multiple Cynap Pro / Cynap Core Pro components of the vSolution MATRIX system are easily set up, managed and updated remotely using our free-of-charge vSolution Link Pro software.

## Free firmware updates, no hidden costs!



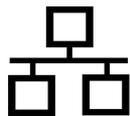
When installing up to 40 workstations, it's a key benefit that WolfVision does not charge subscription fees or apply per workstation recurring licensing costs. All firmware updates are free of charge, maximising your ROI and helping to futureproof your system.

## Professional advice, proven technology!



With hundreds of successful vSolution MATRIX active learning classroom installations already, you can be confident in receiving expert advice, service, and support for your chosen solution from our experienced, professional, worldwide team.

## Implementation advantages!



The ability to configure three separate networks (ie. BYOD WiFi, control and admin, and internet service) offers significant advantages when planning your classroom setup.

## Files at your fingertips



We know that no two classes are ever the same - and that's why our MATRIX solution lets you fetch your files from cloud, network, USB or other sources, and share them with the workstations easily - for maximum flexibility in the classroom!

## App-free, dongle-free working & learning



Competitor solutions require the use of apps, dongles, and additional software in the classroom. Only WolfVision offers a true app-free, dongle-free, hassle-free learning environment for all students.

## Enterprise level security



Built on a secure, unmodifiable Linux platform with 100% data encryption, and user-configurable security features, enables vSolution MATRIX to satisfy the security requirements of every organisation.

# Configuration example

HDMI  
USB

Cynap Pro



Cat6 LAN



Cat6 LAN

1GB Ethernet Switch  
IGMP v.2

Cat6 LAN

HDMI  
USB

Cynap Core Pro



# Flexible working & learning

## Simple drag & drop of multiple screens



A simple drag and drop user control interface enables content to be moved effortlessly between different screens. The 'Room View' is used to control pushing and pulling of content between displays, and flexible settings enable up to 40 workstations to be configured using either names, numbers or colours, exactly matching the actual layout of individual learning spaces.

## Multi-functional workspaces



Individual and multiple workstations can operate independently of the main central station, enabling room usage to be maximised. Workstations can be used separately for breakout groups, or for small groups working independently during times when the entire room is not being used. If enabled, Groupwork Mode also enables direct station-to-station streaming of content.

## Reduced hardware, complexity & costs

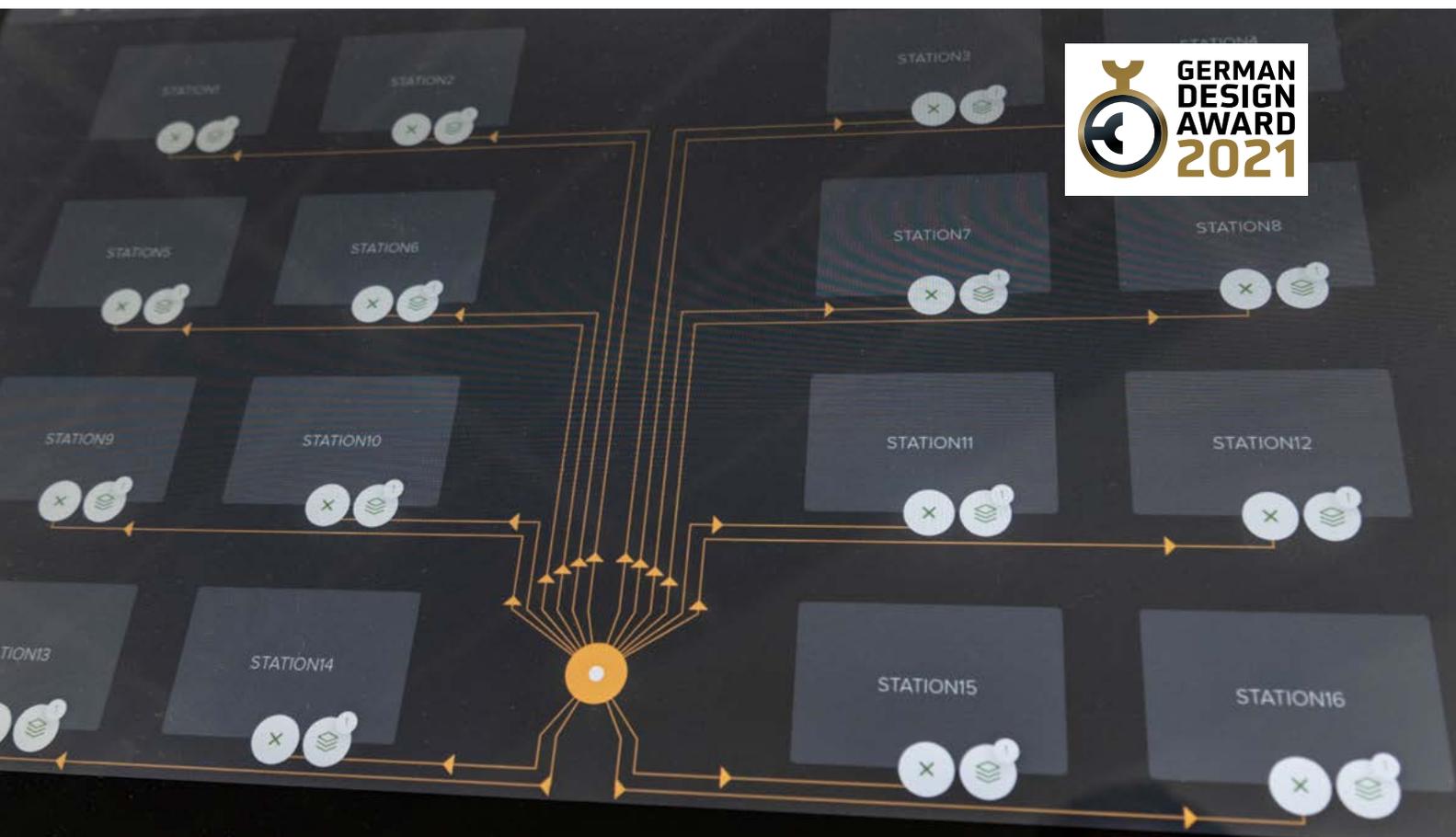


When streaming content between multiple screens, all processing is performed by the Cynap Pro and Cynap Core Pro systems, eliminating the need for additional encoding/decoding hardware, and helping to reduce the overall complexity of the installed system.

## Connecting stations using Coaching Mode



Coaching Mode enables a teacher or trainer to connect two separate stations directly without sharing content onto the main display screen in the room. All content including any annotations etc. are displayed on both the connected screens.



“

"We decided to use vSolution MATRIX because of its flexibility and ease of use. We found that the mirroring capability of other solutions was not as good, and that was a key component for us. The attention to detail that WolfVision have put in gave us a lot of confidence in the product. This room effectively gives us 16 breakout rooms and a lecture theatre all in one space."

Wayne Buttigieg  
Head of Infrastructure and Media Services  
London Business School



++ Video ++

London  
Business  
School



# vSolution COMPOSER

## Dynamic Control for Education and Courtroom Environments

vSolution COMPOSER is an intuitive control feature of WolfVision's Cynap Pro, designed for environments where clarity, flexibility, and ease-of-use are essential.

In larger lecture theatres, COMPOSER simplifies the management of dual-screen teaching setups. Educators can prepare, preview, and present diverse course materials - including Visualizer images, documents, videos, and web content - using a clean, visual interface. A dedicated preparation area allows content to be organised in advance, while confidence monitors provide real-time feedback.

In modern multi-screen courtrooms, COMPOSER ensures secure, moderated access to courtroom evidence presentation systems. Legal professionals and other participants can connect personal devices, but all content passes through a controlled environment. Materials can be previewed before being made visible to the entire courtroom, ensuring that only approved and admissible content is displayed. This secure workflow supports the integrity and efficiency of digital court proceedings.



Digital Transformation for  
Modern Multi-Screen  
Courtrooms

# All-in-one hybrid meeting room AV solution

Cynap Videobar: Wireless presentation, web conferencing & collaboration

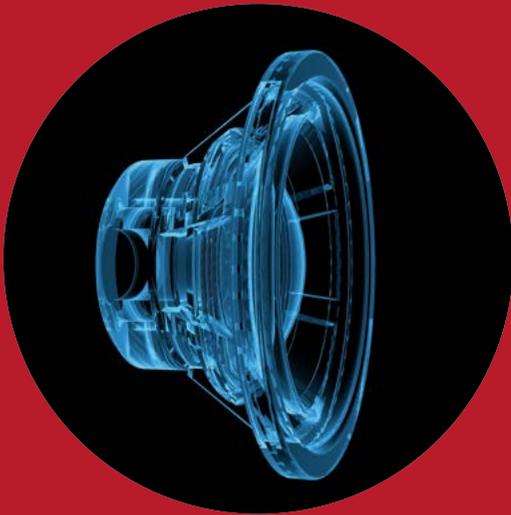


The Cynap Videobar is an all-in-one wireless presentation, web conferencing and collaboration system for meeting rooms. It combines award-winning Cynap wireless screen sharing technology together with a web conferencing camera, built-in speaker system, and microphone, to provide a single, multi-functional AV system. It offers plug-and-play integration, and is suitable for use in small or medium-sized meeting rooms and huddle spaces.

We've partnered with leading German audio specialist Fohhn, to incorporate a high-quality speaker system into the Cynap Videobar. Exceptionally natural speech is reproduced throughout the entire room, and extended low frequency reproduction also ensures outstanding sound quality when playing media files or music. It is the ideal all-in-one AV solution to enhance both room-based and hybrid meeting environments.



# Cynap Videobar Highlights



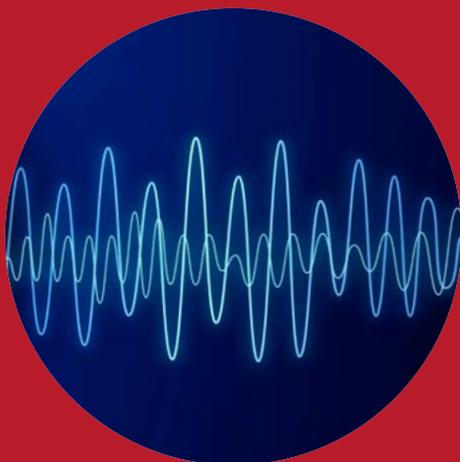
## High performance speaker system by Fohhn

Our superb speaker system by Fohhn ensures that remote participants are clearly heard in the meeting room, providing a sense of presence and allowing for equal participation.

This is crucial in hybrid meetings where ensuring that remote voices are as prominent and clear as in-room voices helps in maintaining true collaborative equity and engagement among all participants.

## Flexible 4K UHD imaging - for great hybrid meetings

The Cynap Videobar features a built-in 4K UHD AI camera with auto-framing functionality – ideal for supporting dynamic hybrid meetings and video conferences. Designed for everyday meeting room use, it delivers consistently good image quality and helps ensure that all participants stay clearly visible on screen.



## Outstanding beamforming microphone array with WolfVision Advanced Voice-Processing Engine

With a pick-up range of up to 5 metres, an adaptive beamforming microphone array with noise suppression, automatic gain control and acoustic echo cancellation, together with the WolfVision Advanced Voice-Processing Engine (WAVE), ensure unrivalled sound pickup and reproduction.

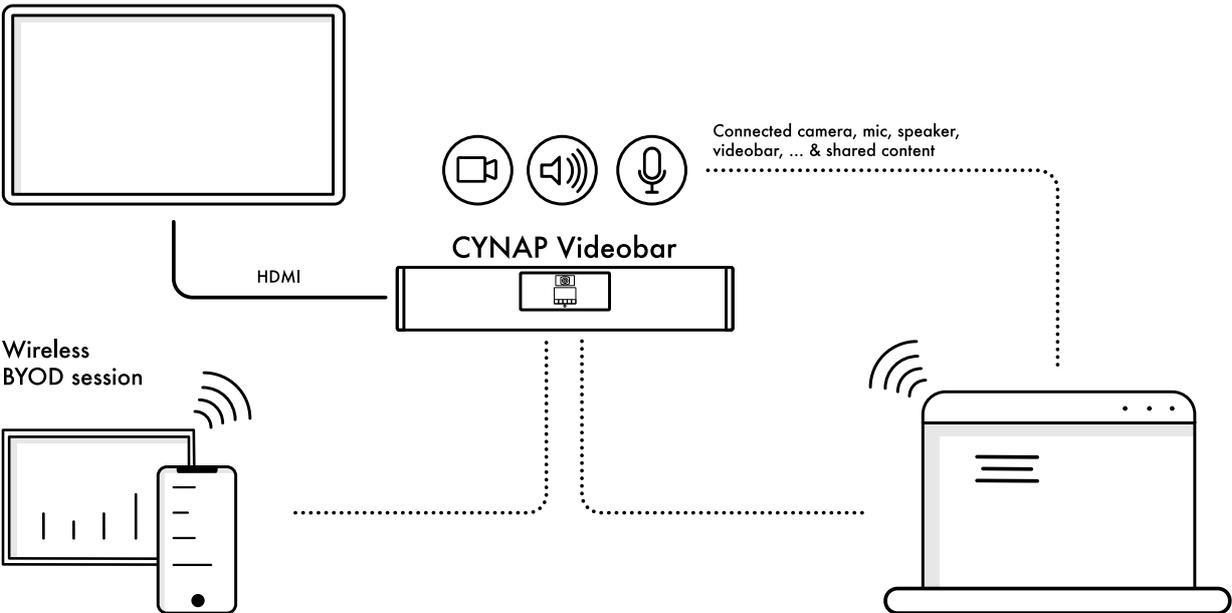
## BYOM web meetings: Use any conferencing service you like

Any web conferencing service can be used, and meeting hosts simply use their own laptop running our vSolution App to connect wirelessly to the videobar, and then start or join web meetings directly from their own device. It's really easy to use, and all in-room AV equipment is controlled using a single app.



# The all-in-one BYOM advantage

Take your hybrid meeting room solution to the next level



Guests in the meeting can easily share their content onscreen for all in-room and remote participants to view.

## Your meetings the way you want!



Use your own laptop to run a video conference by connecting wirelessly to the Cynap Videobar. This ensures a productive, familiar working environment, and the installed in-room equipment delivers a professional high-quality hybrid meeting.

## Maximum system Compatibility



Ensure compatibility across all components using our all-in-one Cynap Videobar. Eliminate the need for multiple USB-C connections, and opt for efficient installation that gets your meeting room operational faster, is easier to administer.

## Platform-agnostic web conferencing



In contrast to some solutions, our all-in-one 'bring your own meeting' solution gives you the flexibility to use any conferencing platform you want without introducing restrictions in overall functionality.

## Supporting collaborative equity!



The Cynap Videobar impresses with its integrated screen mirroring capability that makes it simple for content from any laptop, smartphone or tablet PC in the room to be shared with both local and remote meeting participants.

# Supporting our changing workplace!

## Whiteboarding & Annotation tools



Add to your content material using our annotation feature - or use the built-in whiteboard to note down your ideas. Pin material such as output from a connected camera or Visualizer to the screen, or use the mind map function for a superb collaborative experience.

## 4K UHD output resolution



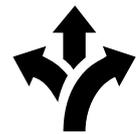
4K UHD output resolution at 60 frames per second ensures that on-screen content from any device always looks superb, and the innovative touchback feature gives you remote control of your laptop while working at the main screen.

## Enterprise level security



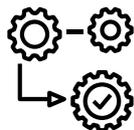
Network security is a key consideration, and our custom-built, closed, Linux system offers 100% wireless data encryption, IEEE802.1x authentication, plus customisable security features to give you exactly the level of protection you require.

## Professional integration



The Cynap Videobar can be set up and used immediately. Settings are easy to configure, and customisable room control API modules are available to ensure professional integration, whatever your requirements.

## Remote management & administration



vSolution Link Pro software is supplied free of charge, facilitating easy remote setup, monitoring, management, and updating of multiple systems across multiple locations.

## Built-in wireless screen sharing!



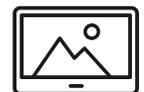
Cynap BYOD wireless presentation technology supports AirPlay, Miracast, and Chromecast for quick and easy connection and sharing of content, both locally, and into web conferences from any laptop, smartphone or tablet.

## Live Viewer Mode



Encourage collaborative working and learning using the unique browser-based Live Viewer Mode, which enables multiple users to receive on-screen content wirelessly from the main display onto their own personal devices for easy viewing.

## Digital signage player



The screensaver can display user-defined content either from a web URL, or locally stored HTML code. It's really easy to display additional content such as a welcome message and meeting agenda in a conference room, or a set of instructions in a classroom.

# Visualizer systems



## High performance document camera imaging solutions

WolfVision imaging systems are used daily in many of the world's leading universities, companies, and judicial institutions. Universities such as Oxford, Cambridge, Harvard, University College London, and many more are valued customers of WolfVision, and well-known organisations such as Google, Microsoft, NASA, The United States Supreme Court, and many others, use WolfVision systems in their meeting spaces to enhance presentations.

WolfVision Visualizer systems are Zoom Certified for Document Cameras, highlighting their compatibility with Zoom Rooms and, Zoom Workplace.



“

“Our faculty and students demand state-of-the-art technology. That's why we have outfitted 95% of our learning spaces with Visualizers. We selected WolfVision as our campus standard because of their high-end optics and easy to use interface. Faculty need to focus on their content, not what button to push or knob to turn.”

Dr. James P. Frazee,  
Senior Academic Technology Officer,  
San Diego State University, USA

# Visualizer Overview

				
Features	VZ-2.UHD	VZ-3neo.UHD	VZ-8neo.UHD	VZ-8.UHD
 Swivel plate option	✗	✓	✓	✗
 9-point touch and focus mode	✗	✓	✓	✓
 Touch Screen Display	✓	✓	✓	✓
 Preview monitor	✗	✓	✓	✓
 LED lighting	✓	✓	✓	✓
 8GB memory + USB Stick	✓	✓	✓	✓
 Dry-erase working surface option	✓	✓	✓	✓
 vSolution Link Pro remote management software	✓	✓	✓	✓
 Automatic operation / easy to use	✓	✓	✓	✓
 Room control APIs for control (LAN/USB)	✓	✓	✓	✓
 USB connectivity (to laptop)	✓	✓	✓	✓
 USB connectivity (media playback from USB stick)	✓	✓	✓	✓
 LAN Port / LAN web Interface	✓	✓	✓	✓
 HDBaseT 2.0 option	✗	✗	✗	✓
 Infrared remote control	✗	✗	✓	✓
 Rotating camera (use as webcam)	✓	✗	✗	✗
 Zoom Certified	✓	✓	✓	✓
 Video recording	✗	1080p FHD	2160p UHD	2160p UHD
 Unicast / Multicast Streaming	✗	1080p FHD	2160p UHD	2160p UHD
 HDMI In Port	1	1	1	2
 Image horizontal resolution (lines)	1300	1400	1400	1600
 Native output resolution	2160 UHD	2160 UHD	2160 UHD	2160 UHD
 Frame rate (per second)	30 (60 FHD)	30 (60 FHD)	60	60
 UVC compatible / resolution	1080p 30	1080p 30 2160p 30	1080p 30 2160p 30	1080p 30 2160p 30
 Optical Zoom	12x	6x	12x	16x
 Digital Zoom	2x	2x	2x	4x

# Outstanding imaging technology for education

VZ-2.UHD Document Camera / Visualizer

The VZ-2.UHD Visualizer system demonstrates that simplicity truly is the ultimate sophistication. Drawing on more than 50 years' experience and expertise, we have engineered a superb new entry level document camera system, ideal for inspiring creative teaching and learning, both inside and outside of the classroom.

This elegant, compact, affordable system, features outstanding picture quality, plus the same robust design, and unrivalled ease of use, that is found throughout the entire WolfVision product line. It is a first-class 'live' imaging tool, equally suitable for supporting in-classroom, online or hybrid learning environments.

Driving Knowledge Creation



# System Highlights

## 4K Stunning picture quality!

Bring your classes to life using our ultra-high resolution 4K UHD camera with 30 frames per second (60 fps in all other resolutions), ensuring smoothness of motion, and an outstanding image resolution of 1300 lines.



## Versatile zoom range

With 24x Zoom even the finest details are easily shown onscreen. This Visualizer handles both A4 portrait and A3-sized materials, and delivers the incredible, crisp, true-to-life on-screen images that students remember long after the session is over.



## Shake-free imaging!

Simply touch the unit to appreciate its solid construction. Unlike other compact doc cams, it doesn't wobble when you operate it. Onscreen images are always shake-free, ensuring there are no onscreen distractions for students.



## Imaging around the room!

Using the normal working area, filming yourself, or even picking up an object from behind the Visualizer are all possible using the 192° rotating camera.



## Energy efficient

The VZ-2.UHD is extremely energy efficient, using only 18 watts in operating mode. It can also be configured to switch off automatically at a pre-defined time if required.



## No need to adjust the light!

Powerful fixed LED lights provide smooth, natural illumination, optimised for every part of the pick-up area. Hotspots are eliminated, and on-screen images are tack sharp and distortion-free, even at the edges of the displayed image.



## Remote management tools

The VZ-2.UHD unit has a network interface which enables it to be used with our vSolution Link Pro software, providing easy remote setup, monitoring, management and updating of large numbers of devices.



## Visualizers built to last

High quality components for outstanding mechanical quality, durability, and reliability, plus a 5 year warranty. These Visualizer systems are built to last!





## 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.

Because knowledge matters -  
to all of us.

# Capture, Share, Inspire



## Flexible solution for hybrid learning

Use the 4K UHD rotating camera as a webcam for a flexible web conferencing experience. Switch camera positions easily between your content materials and yourself as and when needed.

## Even better when combined!

Use our WolfVision DocCam app to send your Visualizer images to your interactive whiteboard. Add them easily into classroom sessions, and even control your Visualizer using your interactive whiteboard.



## Outstanding connectivity options

With HDMI In and HDMI out ports plus a LAN network interface, it's easy to integrate the VZ-2.UHD into your setup. The USB 2.0 host port is useful for saving images onto a USB stick and the USB 3.0 device port can be used for connecting to a computer.

## Designed for ease of use

Continuous autofocus ensures on-screen images always look superb, and the convenient built-in touchscreen user interface ensures quick and easy operation of all controls.



# Unique Visualizer design

## VZ-3neo.UHD / VZ-8neo.UHD

Native 4K UHD Visualizer systems, featuring the iconic WolfVision mechanical design concept, which incorporates the camera, LED light system and all electronic hardware into the Visualizer arm.

Newly engineered optical and electronic components maximise performance, and the unique design features a touchscreen control and preview monitor for maximum ease of use. With the VZ-3neo.UHD and VZ-8neo.UHD we set the standard worldwide for innovative, user-friendly, high-performance imaging systems.



### Focus on the content



High speed continuous autofocus, and manual focus, plus an easy-to-use 9-point touch and focus mode for focusing on specific parts of the on-screen image, ensure crisp presentation of all content materials.

### Flexible external control



These document camera systems can be controlled easily using a room management system or a computer, or can be operated wirelessly from a mobile device using our vSolution App.

### Unrivalled imaging quality

# 4K

Ultra-high definition camera with superb 4K (2160p UHD, 4.4.4) output for presentation of content materials on-screen in unrivalled image quality.

### Recording & streaming



Record and stream your content simultaneously in up to 1080p FHD (VZ-3neo.UHD) or 2160p UHD (VZ-8neo.UHD) resolution, for live or on-demand viewing by remote audiences.

### Adjustment-free lighting



The reflection-free working area means no distracting hot spots or reflections – and there is never any need to adjust the light. This LED Lighting system is optimised to provide perfect illumination at all times.

### Variable-speed zoom range



Choose from a 12x zoom (VZ-3neo.UHD) or 24x zoom (VZ-8neo.UHD) to provide outstanding flexibility when displaying presentation content on-screen.

# Maximum ease of use



## Touchscreen preview monitor

LCD touchscreen monitor for easy positioning of objects on the working surface, plus swipe-through advanced settings menu.

## Automatic operation

Simply use the zoom wheel, and leave other settings like focusing, brightness, and white balance to be adjusted automatically.



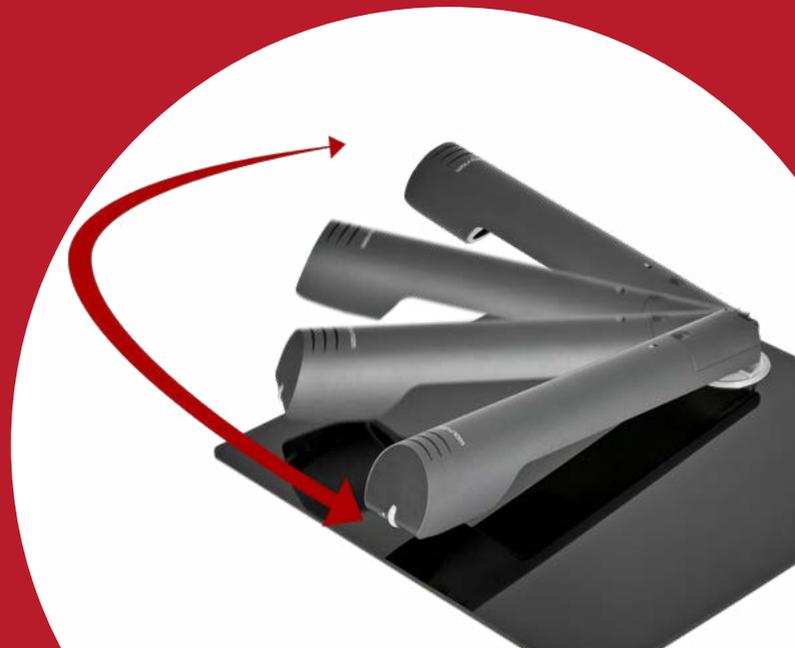
## Write on your Visualizer

Add an optional dry-erase working surface to facilitate easy pickup and display of handwritten notes and drawings.



## Space-saving design

Also available without an integrated working surface. This optional 'swivel plate' version can be set up to rotate 90° for easy storage, and installs directly onto a desk-top using the supplied mounting plate.



# Powerful 4K imaging

## VZ-8.UHD Desktop Visualizer

The VZ-8.UHD is a native 4K UHD Visualizer system. This award-winning top-of-the-line model combines crystal clear on-screen images, a touchscreen control and preview monitor, plus 4K recording and streaming functionality, together with newly designed optical and electronic systems.

It is also available with an optional built-in HDBaseT module, enabling delivery of uncompressed 4K60 content over longer distances without compromising image quality.



## No.1 for imaging performance

# 4K

Top-of-the-line ultra-high definition camera with 4K UHD output for presentation of content materials in outstanding image quality.

## Powerful zoom range



64x zoom for incredible flexibility when displaying content on-screen. Images are always crystal clear, even when zooming in closely on materials.

## 4K recording & streaming



Simultaneous 2160p / 30fps recording and streaming. Use this networked AV-ready Visualizer for capture and distribution of content materials in fantastic quality.

## Flexible external control



Control easily using a room management system or a computer, or use the vSolution App to control wirelessly from a mobile device.

## Adjustment-free lighting



No distracting hot spots or reflections - and no need to adjust the light. This LED Lighting system is optimised for perfect illumination.

## Visualizers built to last!



High quality components for outstanding mechanical quality, durability, and reliability, plus a 5 year warranty. The VZ-8.UHD is built to last!

# Outstanding user experience



## Touchscreen preview monitor

LCD touchscreen monitor for easy positioning of objects on the working surface, plus swipe-through advanced settings menu.



## Automatic operation

Simply use the zoom wheel, and leave other settings like focusing, brightness, and white balance to be adjusted automatically.



## Imaging around the room

90° rotating camera head with shake-free mount for picking up images and video from outside of the working surface.



## Write on your Visualizer!

Self-adhesive dry-erase working surfaces available for convenient pickup and display of hand-written content materials.

# Software & Apps:

## Get more from your systems

WolfVision systems and solutions don't require the installation of buttons, apps or software before they can be used. However, there are various extra features and functionality that are available using the following tools if required.

### vSolution App

- Receive and record a stream of presentation and lecture content from a Cynap Pro system onto your own mobile device.
- For Android and iOS/iPadOS users in network environments where the mDNS / Bonjour services (device discovery protocols) have been disabled, the app enables users to discover Cynap family systems manually, enabling connection via AirPlay or Chromecast.
- An easy-to-use remote control function enables presenters to connect to a WolfVision Visualizer or Cynap family system, and then use the intuitive touch-screen interface to control their content materials wirelessly from their own mobile device.
- vSolution App is used when hosting Cynap BYOM (bring your own meeting) web meetings on a laptop (Win/macOS). It is also used to control Zoom, MS Teams or WebRTC web meetings running directly on a Cynap system.

### vSolution Cast

- 4K screen mirroring from Windows laptops to Cynap family systems
- When screen mirroring from a Windows laptop to Cynap systems, either a single window or the entire desktop can be shared onto the display screen.
- Screen mirroring to all Cynap systems for Windows users who do not have built-in Miracast, or wish to use the additional functionality.



# vSolution Link Pro

## Remote management software

vSolution Link Pro software is license-free, and is available to download free of charge. It enables remote organisation and management of all vSolution Cynap family and Visualizer systems across multiple locations. It includes the following features and functionality.

### vSolution Link Pro

- Local administrator setup, device assignment
- Allocation of tags and location information for convenient device organisation and management
- Updating firmware for either single or multiple Cynap and Visualizer systems
- Sending admin messages to be displayed on selected Cynap systems
- Settings templates can be created for easy backup, restore, and rollout to multiple devices
- Monitoring the status of Cynap and Visualizer systems
- Scheduled automation of tasks such as backup, power cycling or updating of systems
- User interface accessible via any HTML5 compatible internet browser
- Available for Windows Server, Windows desktop, and macOS
- vSolution Link Pro is also available for installation on a cloud-based virtual server (Microsoft Azure or AWS). WolfVision remote management software can now be securely accessed from any location, and is suitable for managing up to 5,000 WolfVision systems across multiple locations.

*Note: Cloud-based software supports Cynap, Cynap Pro, Cynap Core, Cynap Core Pro, Cynap Pure, Cynap Pure Pro & Cynap Pure Receiver systems only.*



# Cynap systems specifications

Features	Cynap Pure Mini	Cynap Pure
Operating system	Linux	Linux
Output resolution	2160p60/30, 1080p60/30, 720p60	2160p60/30, 1080p60/30, 720p60
Supported devices for wireless mirroring (up to 4K depending on device)	iOS, iPadOS, Android, Windows, macOS, Chrome OS	iOS, iPadOS, Android, Windows, macOS, Chrome OS
Supported mirroring protocols	AirPlay, Miracast (Peer-to-Peer and MICE), Chromecast, vSolution Cast	AirPlay, Miracast (Peer-to-Peer and MICE), Chromecast, vSolution Cast
vSolution MATRIX compatible	-	-
Media Player: Supported image file formats (image, document, video, audio)	-	-
Max. no. of on-screen windows	4	4
vSolution COMPOSER	-	-
Local streaming	-	-
Webcasting (YouTube, Facebook etc.)	-	-
Local video recording (up to 1080pFHD 30)	-	-
Capture agent (Panopto & other compatible video platforms)	-	-
Cloud services	-	-
Microsoft 365 integration	-	-
vSolution Meeting room booking tool (supports Microsoft 365/Google Calendar)	-	-
Access to network drives	-	-
Whiteboard and annotation	-	Yes
Live Viewer Mode (up to 1080pFHD)	-	Yes
Protected/Open presentation modes	Yes	Yes
Multi-platform web conferencing	-	-
BYOM (Bring Your Own Meeting) web conferencing	-	Yes
vSolution Link Pro remote admin software	On premise	Cloud & on premise
Encrypt and save personal user settings	-	-
Integrated web browser	-	-
Digital signage function and screensaver	-	Yes
Peripheral device control	Yes	Yes
Video input	-	-
HDBaseT 1.0 input	-	-
Video output	HDMI x1	HDMI x1
HDBaseT 1.0 output	-	-
Audio	HDMI out, USB Out	HDMI Out, USB Out
USB port	Front: 1x USB 3.0, 1x USB 2.0	Front: 1x USB 3.0, 1x USB 2.0
LAN port	Yes, 1x 1GigE	Yes, 1x 1GigE
Bluetooth device discovery	Yes	Yes
WLAN standards (Wi-Fi 5)	2.4 GHz in Access Point Mode / 2.4 and 5 GHz in Infrastructure Mode	2.4 GHz in Access Point Mode / 2.4 and 5 GHz in Infrastructure Mode
Network protocols	TCP/IP, HTTP, HTTPS, SNTP/NTP, SSL, SSH, UDP	TCP/IP, HTTP, HTTPS, SNTP/NTP, SSL, SSH, UDP
IP configuration	DHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface priority	DHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface priority
Security authentication for LAN	IEEE 802.1X	IEEE 802.1X
Security encryption for wireless WLAN	WEP, WPA2, WPA2 Enterprise or IEEE 802.1X	WEP, WPA2, WPA2 Enterprise or IEEE 802.1X
Q-SYS Core integration	-	-
RMS encryption	Yes	Yes
External controlling	Multi-touch display, web interface, room control system, keyboard / mouse, optional remote control, vSolution App	Multi-touch display, web interface, room control system, keyboard / mouse, optional remote control, vSolution App
Dimensions (L x W x H)	70 x 70 x 35 mm (2.76 x 2.76 x 1.37")	70 x 70 x 35 mm (2.76 x 2.76 x 1.37")
Power consumption	24W	24W
Weight	260g (0.57lb)	260g (0.57lb)
Optional accessories	Optional remote control	Optional remote control
Included accessories	Power supply, VESA mount (75mm /100mm)	Power supply, VESA mount (75mm /100mm)
Free firmware updates / no license fees	Yes	Yes
Limited warranty	3 years (optional extension to 5 years)	3 years (optional extension to 5 years)

## Cynap Pure Pro

Linux
2160p60/30, 1080p60/30, 720p60
iOS, iPadOS, Android, Windows, macOS, Chrome OS
AirPlay, Miracast (Peer-to-Peer and MICE), Chromecast, vSolution Cast
-
JPEG, BMP, PNG, PDF, DOCX, PPTX, XLSX, Text, HTML, AVI, WMV, MOV, MP4, DivX, MKV, M4V, OGV, MP3, WMA, MKA, OGA, OGG
4
-
-
-
-
Google Drive, Dropbox, Jianguoyun, OneDrive, WebDAV
Yes (optional Microsoft 365 feature pack required)
Yes
Yes
Yes
Yes
Yes, Zoom, Microsoft Teams, WebRTC
Yes
Cloud & on premise
Yes, save onto USB stick
Yes
Yes
Yes
- (HDMI source via USB frame grabber if required)
-
HDMI x1
-
HDMI Out, USB In/Out
Front 3x USB 3.1 ports
Yes, 1x 1GigE
Yes
2.4 GHz in Access Point Mode / 2.4 and 5 GHz in Infrastructure Mode
TCP/IP, HTTP, HTTPS, SNMP/NTP, SSL, SSH, UDP
DHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface priority
IEEE 802.1X
WEP, WPA2, WPA2 Enterprise or IEEE 802.1X
-
Yes
Multi-touch display, web interface, room control system, keyboard / mouse, optional remote control, vSolution App
117.3 x 128.2 x 35.5 mm (4.6 x 5.1 x 1.4")
90W
389 g (0.86lb)
Optional remote control
Power supply, VESA mount (75mm /100mm)
Yes
3 years (optional extension to 5 years)

## Cynap Core Pro

Linux
2160p30, 1080p60/30, 720p
iOS, iPadOS, Android, Windows, macOS, Chrome OS
AirPlay, Miracast (Peer-to-Peer and MICE), Chromecast, vSolution Cast
Yes, client only
GIF, JPEG, BMP, PNG, PDF, DOCX, PPTX, XLSX, Text, HTML, AVI, WMV, MOV, MP4, DivX, MKV, M4V, OGV, MP3, WMA, MKA, OGA, OGG
4
-
-
Yes, via optional feature pack
Yes, via optional feature pack
Yes, via optional feature pack
Google Drive, Dropbox, Jianguoyun, OneDrive, WebDAV
Yes
Yes
Yes
Yes
Yes, Zoom, Microsoft Teams, WebRTC
Yes
Cloud & on premise
Yes, save onto USB stick
Yes
Yes
Yes
HDMI In x1 (extra HDMI source via USB frame grabber if required)
-
HDMI x1
-
Line in / Line out, HDMI In/Out, USB In/Out
Rear USB 3.0 x4, Front USB 2.0 x1
Yes, 2x 1GigE
Yes
2.4 and 5 GHz
TCP/IP, FTP, HTTP, HTTPS, SNMP/NTP, SSL, SSH, UDP, LDAP, LDAPS
DHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface priority
IEEE 802.1X
WEP, WPA2, WPA2 Enterprise or IEEE 802.1X
Yes
Yes
Web interface, Visualizer, multi-touch display, room control system, keyboard / mouse, optional remote control, vSolution App
203 x 196 x 67mm (7.99 x 7.71 x 2.63")
Max. 80W
1840g (4.05lb)
Optional remote control, 19" rackmount, VESA mount
Power supply, antennas
Yes
3 years (optional extension to 5 years)

## Cynap Pro

Linux
2160p60/30, 1080p60
iOS, iPadOS, Android, Windows, macOS, Chrome OS
AirPlay, Miracast (Peer-to-Peer and MICE), Chromecast, vSolution Cast
Yes, main station via optional feature pack or client
GIF, JPEG, BMP, PNG, PDF, DOCX, PPTX, XLSX, Text, HTML, AVI, WMV, MOV, MP4, DivX, MKV, M4V, OGV, MP3, WMA, MKA, OGA, OGG
4
Yes
Yes (Unicast/ Multicast), RTP, RTSP
Yes
Yes
Yes
Google Drive, Dropbox, Jianguoyun, OneDrive, WebDAV
Yes
Yes
Yes
Yes
Yes, Zoom, Microsoft Teams, WebRTC
Yes
Cloud & on premise
Yes, save onto USB stick
Yes
Yes
Yes
HDMI x2 (HDMI with HDCP 1.4), (extra HDMI source via 3 <sup>rd</sup> -party USB frame grabber if required)
Optional x1 (only when HDMI input 2 not used)
HDMI x2 (HDMI with HDCP 1.4), 1x HDMI Out (for dual screen control management control and preview monitor)
Optional x1 (only when HDMI output 1 not used)
Line in / Line out, HDMI In/Out, USB In/Out
Rear USB 3.0 x4, front USB 2.0 x2
Yes, 2x 1GigE
Yes
2.4 and 5 GHz
TCP/IP, FTP, HTTP, HTTPS, SNMP/NTP, SSL, SSH, UDP, LDAP, LDAPS
DHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface priority
IEEE 802.1X
WEP, WPA2, WPA2 Enterprise or IEEE 802.1X
Yes
Yes
Web interface, remote control, Visualizer, multi-touch display, room control system, keyboard / mouse, vSolution App
428 x 218.7 x 88.2mm (16.85 x 8.6 x 3.47")
Max. 105W
4500g (9.9lb)
Remote control (free of charge on request)
Power cable, antennas, rackmount/table mount kit
Yes
3 years (optional extension to 5 years)

# vSolution MATRIX specifications

## Features

Description	Feature pack option. Activate on a single Cynap Pro system to enable network AV functionality between multiple Cynap Pro and Cynap Core Pro systems
Number of Cynap Pro systems requiring vSolution MATRIX Feature Pack	1
Maximum number of Cynap Pro / Cynap Core Pro stations in room	40
Additional encoders / decoders required	No
Touchscreen compatibility	Yes
Maximum stream resolution	1080p30
Annotation (Collaboration Mode)	All connected stations can annotate on a single document. Content is moderated, and annotations from specific stations can be shown or hidden as required.
Control options	Browser-based control with user-defined Room View layout
Customisable Room View layout	Yes, drag & drop configurator with user-defined stations labelled using names, numbers or colours
Room View Templates	Yes, up to 5 templates can be saved for installations using multiple room layouts
Define groups for screen content sharing	Yes, content sharing to groups from main screen possible for up to 5 pre-defined groups
Station Power On / Power Off feature	Yes
Show Screen / Show All Screens feature	Yes, status of currently displayed content on a specific screen or all screens can be checked via the Room View
Sharing content between multiple screens	Yes, push from the main station to a single client station or to all stations. Pull content from single stations to the main screen
Groupwork Mode	Enables individual stations to be used independently, without requiring the operation of the main station. Up to 4 workstations can share content between themselves.
Coaching Mode	If activated, instructors can use the Room View to drag and drop content from one station directly to another, without needing to pull the content onto the screen of the Main Cynap.
Encrypted file sharing from main station to client stations	Yes, either to a single station or to all stations. Receipt of files is notified by a pop-up. Alternatively the Auto Open File option can be enabled in the settings
Network requirements	1 Gigabit Ethernet
IP Multicast Group Address range	224.3.0.0 to 224.3.0.10
Switch requirement	1 Gigabit Ethernet, Layer 2 or Layer 3 with enabled IGMP snooping
Streaming	H.264
Audio	Audio can be activated on the student stations.
Management tools, remote setup, update and management	vSolution Link Pro software (for Windows 10, Windows Server 2012 R2 & 2016, Windows Web Server, macOS) provides admin support including centralised firmware upgrades, checking the state of a Cynap and Wake-on-LAN. A settings profile can be created and distributed to multiple Cynap systems.
Security authentication for LAN	IEEE 802.1X
Encryption of all wireless content (WLAN)	WEP, WPA2, WPA2 Enterprise or IEEE 802.1X
Cynap Pure Receiver option	Optional add-on units can receive a stream from Cynap Pro, enabling multiple additional screens to be added. Also enables extension to additional rooms. A user controlling the session can allow annotations to be made using the Pure Receiver if required.

Please refer to Cynap Pro & Cynap Core Pro specifications for individual system capabilities

Design and specifications subject to change!



vSolution  
**MATRIX**

# Visualizer specifications

Features	VZ-2.UHD	VZ-3neo.UHD	VZ-8neo.UHD	VZ-8.UHD
Availability	Worldwide	Worldwide	Worldwide	Worldwide
Camera	1-CMOS 1/2.8"	1-CMOS 1/2.8"	1-CMOS 1/2.8"	1-CMOS 1/1.8"
Horizontal resolution (lines)	1300	1400	1400	1600
Frames per second (in all resolutions)	30 (4K UHD), 60 (1080pFHD, 720pHD)	30 (4K UHD), 60 (1080pFHD, 720pHD)	60	60
Effective megapixels per second	248.8	248.8	497.6	497.6
Native output resolution	2160 UHD	2160p UHD	2160p UHD	2160p UHD
Converted output resolution 16:9 / 16:10	1080pFHD 720pHD	1080pFHD 720pHD	1080pFHD 720pHD	1080pFHD 720pHD
vSolution Link Pro remote management software	•	•	•	•
Zoom Certified	•	•	•	•
UVC compatible	•	•	•	•
Brightness control / white balance adjustment	Automatic / Manual	Automatic / Manual	Automatic / Manual	Automatic / Manual
Adjustable colour settings	•	•	•	•
Maintenance-free, adjustment-free, LED light system	•	•	•	•
Reflection-free working area	•	•	•	•
Built-in LCD preview monitor	-	•	•	•
Live to freeze comparison	-	•	•	•
Optical zoom	12x	6x	12x	16x
Digital zoom	2x	2x	2x	4x
High speed continuous autofocus / manual focus	•	•	•	•
9-point Touch and Focus Mode	-	•	•	•
Camera rotation	192°	-	-	90° to audience
User programmable presets	3	3	3	3
Optional dry-erase working surface	•	•	•	•
Swivel plate option (90° rotation)	-	•	•	-
Computer input/input switch	1x HDMI	1x HDMI	1x HDMI	2x HDMI
Seamless switching/fading effects	•	•	•	•
Image memory	8 GB + USB Stick			
Digital image output	HDMI	HDMI	HDMI	HDMI
HDBaseT 2.0	-	-	-	Optional x1
USB Device port	USB 3.0	USB 3.0	USB 3.0	USB 3.0
USB 2.0 host port	1	1	1	2
Ethernet (LAN) port	•	•	•	•
LAN web interface	•	•	•	•
Unicast/multicast streaming	-	1080p FHD	2160p UHD	2160 UHD
Video recording	-	1080p FHD	2160p UHD	2160 UHD
Room control APIs for controlling via LAN and USB	•	•	•	•
Anti-theft devices	Kensington® Lock / table lock bolt			
Audio	-	HDMI In/Out	HDMI In/Out	HDMI In/Out UAC
Infrared remote control	-	-	Optional	Optional
Free firmware updates	•	•	•	•
Warranty (years)	5	5	5	5
Made in Austria / Europe	•	•	•	•

Design and specifications subject to change!

# Cynap Videobar specifications

## Features

## Cynap Videobar

Operating system	Linux
Camera	8MP 4K camera, 110° FOV, auto-framing
Output resolution	2160p30, 1080p60/30, 720p60
Microphones	Active Beamforming Microphone Array (4x MEMS), SNR (@1kHz, 94 dBSPL, A-Weighted): < -96 dBA, Max SPL (@1kHz, THD = 10%): 130 dBSPL, Target output level: -30 dBFS, Mic data rate: 16 kHz, 16 bit
Loudspeakers (by Fohhn)	2 x 70W, 2 x 4" chassis, with coaxial high frequency diffraction waveguide and bass-reflex port, nominal bandwidth: 58Hz - 16KHz (-10dB), rated maximum SPL (@1m): 103db, sampling rate: 45KHz / 24Bit, SNR (Signal-to-noise ratio): >110dB, THD (1KHz, 6dB below clipping): 0.02%
Recommended usage range	Up to 5 metres for optimal audio and video performance
EQ adjustment for room optimisation	Yes
BYOM (Bring Your Own Meeting) web conferencing	Yes
Supported devices for wireless screen sharing (Up to 4K depending on device)	iOS, iPadOS, Android, Windows, macOS, Chrome OS
Supported screen mirroring protocols	AirPlay, Miracast (no HDCP support), Chromecast, vSolution Cast
Max. no. of onscreen windows	4
Touchback functionality	Yes, for Windows (Miracast & vSolution Cast), macOS via vSolution App
Presentation modes	Protected Mode, Open Mode
Whiteboard and annotation	Yes
Digital signage function and screensaver	Yes
vSolution Link Pro software for remote management & firmware updates	Yes, Cloud and on premise
Live Viewer Mode (browser-based live view of onscreen content on own device)	Yes
Bluetooth device discovery	Yes
Wi-Fi standards (Wi-Fi 5)	2.4 GHz in Access Point Mode / 2.4 and 5 GHz in Infrastructure Mode
Network protocols	TCP/IP, HTTP, HTTPS, SNMP/NTP, SSL, SSH, UDP
IP configuration	DHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface priority
Security authentication for LAN / Security encryption for wireless WLAN	IEEE 802.1X / WEP, WPA2, WPA2 Enterprise or IEEE 802.1X
External controlling	Multi-touch display, web interface, room control system, keyboard/mouse, vSolution App, remote control
Peripheral device control	Yes
Inputs / Outputs	HDMI Out x1, HDMI In x1 (Latency >200 ms – for content sharing only; not for use as primary monitor), USB-A 2.0 x1; USB-C 3.0 x1, LAN port x1
Audio Inputs / Audio Outputs	3.5mm Line In (Impedance: 15KOhm) ; 3.5mm Line Out (Output Impedance: <10hm, Minimum Load Impedance: 16 Ohm), HDMI Out
Dimensions in operation (L x W x H)	782 x 92 x 147 mm (30.79 x 3.62 x 5.79")
Weight	7kg (15.43lb)
Power consumption	Max 100W
Included accessories	Power supply, wall mount
Optional accessories	Remote Control, Table Mount, Vesa Mount (above screen), Vesa Mount (below screen)
Free firmware updates	Yes
Limited Warranty	3 years
Made in	EU   Austria & Germany

Design and specifications subject to change!





4th-Standard IP: 10.30.22.98

Video Conference Interface

**Trends**

Year	Value
2003	15
2004	25
2005	35
2006	45

CYNAP VIDEOBAR WOLFFVISION



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