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

With more than 40 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 vSolution, WolfVision offers not only pre-sales advice, but also post-sales support, training, and service, ensuring that you receive maximum benefit from your investment.
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.

**Meetings and Conferences**

WolfVision Cynap and Visualizer systems are used daily in universities and other educational institutions worldwide, supporting the skills and efforts of teaching staff in communicating and making a meaningful connection with student audiences, in both in-classroom and online learning environments.

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

**Education & Training**

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.

In response to the Covid-19 pandemic and beyond, courtrooms worldwide are undergoing rapid change. WolfVision technology solutions are supporting new and upgraded hybrid courtroom setups, helping to enable simultaneous in-person and remote participation in court proceedings.

"WolfVision equipment is great to work with. It is evident that a great deal of thought is put into the design of every aspect of each piece of equipment. Just as important is the high degree of confidence inspired by WolfVision representatives, repair facilities and technical support."

Bruce Horn
Learning Technologies
Classroom Operations Manager
University of California, Santa Cruz. USA
Choose your Cynap system!

**CYNAP PURE**

**BYOD: wireless presentation made easy**
A compact BYOD wireless presentation solution, perfect for classrooms, meeting rooms, and huddle spaces of all sizes, where high quality, easy-to-use, wireless screen sharing onto a central shared screen is the primary focus.

- BYOD screen sharing
- Touchback-function
- Enterprise level security
- Flexible network integration
- Room management APIs
- Peripheral device control

**CYNAP PURE PRO**

**Outstanding wireless presentation and collaboration**
With all the functionality of Cynap Pure, plus some of the features of our larger Cynap systems, Cynap Pure Pro is an ideal add-on to existing infrastructure, providing high performance wireless screen mirroring, combined with a range of popular collaboration tools.

- BYOD screen sharing
- Touchback-function
- Enterprise level security
- Flexible network integration
- Room management APIs
- Peripheral device control
- Audio/Video USB input
- Document & Media Player
- Zoom, WebRTC Meetings
- IP stream receive
- Integrated Web browser
- Whiteboard & Annotation
- Microsoft 365 (incl. Teams meetings)

Optional Feature Pack
Advanced connectivity

**CYNAP CORE PRO**

Advanced collaboration & presentation solution

Easy to use collaboration system, 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 MATRIX active learning classroom solution.

**CYNAP**

Centrepiece of the modern classroom

A powerful all-in-one wireless presentation and collaboration system, featuring a media player, web conferencing, recording and streaming, BYOD wireless screen sharing, and annotation functionality. Also the ‘main station’ of our MATRIX collaboration solution.

- **BYOD screen sharing**
- **Touchback function**
- **Enterprise level security**
- **Advanced network options**
- **Room management APIs**
- **Peripheral device control**
- **Audio/Video USB input**
- **Document & Media Player**
- **Zoom, Teams WebRTC Meetings**
- **IP stream receive**
- **Integrated Web browser**
- **Whiteboard & Annotation**
- **Microsoft 365**
- **Lecture Capture**

- **Available: Q3 2021**

- **BYOD screen sharing**
- **Touchback function**
- **Enterprise level security**
- **Advanced network options**
- **Room management APIs**
- **Peripheral device control**
- **Audio/Video USB input**
- **Document & Media Player**
- **Zoom, Teams WebRTC Meetings**
- **IP stream send/receive**
- **Integrated Web browser**
- **Whiteboard & Annotation**
- **Microsoft 365**
- **Lecture Capture**

**vSol. MATRIX compatible**

**vSol. MATRIX main station**

**Web-casting**
Cynap Pure: BYOD wireless presentation made easy!

When you’re looking for a wireless BYOD presentation solution for your organisation – look no further than Cynap Pure, the leading solution for meeting rooms, classrooms and huddle spaces everywhere.

With best-in-class, crystal clear, 4K UHD resolution, unrivaled ease of use, 4 window on-screen display, touchback functionality, and unique professional features unavailable on any other competitor system, check out Cynap Pure, the No. 1 wireless BYOD screen sharing solution available today.

Pure perfection!

- Easy to setup, simple to use
- Hassle-free screen mirroring for all smartphones, laptops & tablets
- No apps, no dongles required
- Best-in-class security features
- Outstanding hardware performance
- Remote administration & management
No apps, no buttons, no cables, no hassle

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

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 can be set up and used immediately. Settings are easy to configure, and customisable/prepared API modules ensure professional integration, whatever your requirements. Configuration is also possible to control peripheral devices.

Remote management & administration

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

Free firmware, no license fees

Regular firmware updates provide you with new features and improvements, helping to extend the life of your investment and maximise your ROI.

4K UHD output resolution

4K UHD output resolution with 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.
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 web conferencing integration, annotation and whiteboard functionality, media player, web browser, and much much more - all operated seamlessly using our award-winning, easy-to-use Cynap GUI.
Cynap Pure Pro: Extended version with popular collaboration tools

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.

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

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!

Instant access to Zoom meetings
Cynap Pure Pro provides support for Zoom and MS Teams’ video meetings. It’s easy to start an instant meeting or join a scheduled meeting directly from within Cynap Pure Pro. Support for WebRTC web conferencing is also provided.

Optional Office 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.

*MS Teams: Only with optional Office 365 Feature Pack Upgrade
Cynap Core Pro: Next generation working & learning

Cynap Core 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 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 of any size.

No apps, no dongles, no cables, no hassle!
Cynap Core Pro supports AirPlay, Miracast, and Chromecast screen mirroring, 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 classroom, meeting space or courtroom installations that require additional connectivity options, Cynap Core Pro also includes an HDMI In port, for example for connecting an in-room PC, Visualizer or camera, etc.

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

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.

Remote management & administration
Our vSolution Link Pro software is supplied free of charge facilitating easy remote setup, monitoring, management, and updating of multiple systems across multiple locations.
Cynap Core Pro: Maximum collaboration!

Instant access to web meetings!
Support for Zoom and Teams video meetings is provided. A WebRTC web conferencing interface is also provided. You can even store your Zoom/Teams and WebRTC credentials on our mobile app ensuring easy, touchless operation.

Microsoft 365 integration
Work together and access popular Microsoft 365 apps directly from Cynap Core Pro including Word, PowerPoint, Excel, Outlook, Microsoft Teams, and OneNote (active Microsoft 365 account required).

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 integration
Adding the optional Capture Feature Pack enables Cynap Core Pro to act as a capture agent for Panopto and other compatible video management platforms.*

*Available Q3 2021
vSolution Cynap™
Presentation, Collaboration & Knowledge Sharing

Just like in the human brain where synapses are essential for rapid processing and transmission of information, the Cynap presentation and collaboration system, is a powerful, multi-functional, flexible interface, providing quick and easy access to information of all types from any source. It is the ideal system for inspiring engagement, interaction, and collaboration, in education, business and courtroom environments.

With its optional feature pack, Cynap also functions as the ‘main station’ of our vSolution MATRIX collaboration solution.

Media player: Information on demand
Cynap plays, displays, records, and streams all commonly used media simultaneously, providing incredible versatility during meetings, lectures, and collaborative sessions. Information is easily available, whether stored locally or in the cloud, and files are also accessible for playback using a connected USB stick.

Video recording / Lecture capture agent
Full HD video recording captures all types of content materials, making flexible recording of multisource, multimedia educational content easier than ever before. Cynap can also act as a capture agent for Panopto and other compatible video management platforms.

Wireless presentation: Bring your own device
Cynap offers an all-in-one wireless BYOD solution suitable for all smartphones, tablets and laptops. AirPlay, Chromecast, and Miracast mirroring is supported, and up to 4 devices can connect without needing extra apps, dongles or additional software, and display on-screen content simultaneously in up to 4K output resolution.
“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

The webcasting feature makes it simple to stream content for live or on-demand viewing via platforms such as Wowza, YouTube, Facebook Live. Additionally, students or work colleagues on the same network as the presenter can receive and record a stream to their mobile devices using our vSolution App.

Microsoft 365 Integration

The Microsoft 365 integration provides access to popular Microsoft 365 apps such as Word, PowerPoint, Excel, Outlook, Microsoft Teams, and OneNote (active Microsoft 365 account required).

Access to Zoom and Teams meetings

Support for Zoom and Microsoft Teams video meetings is provided. A WebRTC web conferencing interface is also provided. You can even store your Zoom/Teams and WebRTC credentials on our mobile app ensuring easy, touchless operation.

Whiteboard and annotation

Collaborate together using the built-in digital whiteboard and annotation features of the Cynap System. Written notes are easily recorded and shared, along with other multimedia information.
vSolution MATRIX is an AV over IP-based collaboration solution from WolfVision, which uses multiple Cynap / Cynap Core Pro units to stream video and audio between multiple screens using existing network infrastructure.

Available as a feature pack upgrade for Cynap 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 unit, designated as the ‘main’ system in the room, is connected to multiple workstations with either a Cynap 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 / 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.
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/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 250+ 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.
“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
vSolution Cam *

vSolution Cam is an elegant, entry level Visualizer system with excellent picture quality, plus the same robust design, and unrivalled ease of use, that is found throughout the entire WolfVision product line.

Streamlined to include only essential functionality, it features a 4x HD zoom, an ultra-high resolution camera with 1080p HD output, adjustment-free LED lighting, and HDMI output. An optional Riser Plate enables pick-up of content materials in up to A4 portrait size.

VZ-3neo Series *

The VZ-3neo Visualizer system features 1080p HD resolution, 30 frames per second, continuous autofocus, HDMI in/out, and a 12x zoom 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.

VZ-3neo units are available either with or without an integrated working surface. The version without working plate is designed for permanent mounting directly onto a desktop or podium using the supplied swivel plate.

VZ-8neo Series

VZ-8neo Series Visualizers feature the same elegant design as the VZ-3neo. They come with 1080p HD resolution, HDMI in/out, and a powerful 24x zoom, enabling very small fingernail-sized items to be easily enlarged sufficiently to fill a display screen.

The VZ-8neo+ comes with an LCD preview monitor for easier positioning of objects, a remote control, and frame rate of 60 fps which further improves the smoothness of motion and autofocus performance.

VZ-8.UHD

The VZ-8.UHD is a native 4K UHD Visualizer system which combines 4K UHD output resolution, touchscreen control and preview monitor, plus 4K recording and streaming, together with newly designed optical and electronic systems. The VZ-8.UHD is also available with an optional built-in HDBaseT module, enabling delivery of uncompressed 4K60 content over longer distances without compromising image quality.

VZ-9.4 Series

The VZ-9.4 Series Visualizers come with integrated WLAN and audio, and both models are fully featured multimedia recording devices, with built-in HD recording functionality. The VZ-9.4F features native 1080p HD resolution at a frame rate of up to 60fps, and the VZ-9.4L comes with a native WXGA / 720p HD camera at 30fps - and Synchronized Lasermarkers for easier positioning of objects.

"Our faculty and students demand state-of-the art technology. That’s why we have outfitted 95% of our learning spaces with WolfVision 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
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.

Our Vision
Innovation on the ceiling

WolfVision’s unique ceiling systems are easily integrated into a suspended ceiling or mounted onto the ceiling just like a projector. This enables the speaker’s workspace to remain completely free of technical equipment - leaving nothing to obstruct the view between a speaker and the audience during a presentation, and allowing larger items to be easily displayed than when using a Desktop Visualizer system. A Synchronized Lightfield highlights and illuminates the pick-up area of the camera, showing exactly where to place display materials on the working surface - and when zooming in and out, the size of this lightfield adjusts automatically.

VZ-C6 Series
The VZ-C6 Ceiling Visualizer system features native 1080p HD resolution at 30 frames per second, and a Synchronized Lightfield for easy positioning of objects.

The VZ-C6 comes with a premium quality high precision wide angle lens with 12x optical zoom factor. In combination with the 4x digital zoom the total zoom range is 48x. This allows for the installation in rooms at a height of up to 3m (10’), and facilitates zooming in very closely, as well as picking up very large objects.

Integrated WLAN, and an 8GB internal memory are also provided, together with on-board HD video recording and streaming. The VZ-C6 is an outstanding presentation and lecture capture system, mounted on the ceiling.

“WolfVision Visualizers enable us to explain complicated procedures much more vividly and in fine detail. For us they are quite simply irreplaceable, and it is very hard for us to imagine how we used to teach without them.”

Dr. Matthias Hirner, Professor of Physics and Informatics, HTL School of Engineering, Bregenz, Austria
"Generating new and sometimes groundbreaking knowledge, whether in education or in research presents tremendous, but at the same time marvellous challenges. Meeting these challenges successfully requires innovative, comprehensive solutions, for presentation, knowledge sharing, and collaboration. This is what vSolution offers us."

Michael Sadler, Media Services Infrastructure Coordinator, City University, London
Closer to Reality: 3D System

WolfVision’s VZ-C3D is the world’s first and only LIVE 3D presentation solution. This ceiling-mounted, 3D Visualizer features two high precision lenses and an onboard stereoscopic mixer which enables spectacular ‘live’ high definition 3D images to be viewed in real-time with any 3D enabled display. The VZ-C3D also features WolfVision’s Synchronized Lightfield for easy and intuitive positioning of objects, and has built-in recording functionality.

3D Visualizer Series
The VZ-C3D delivers stunning visuals for 3D applications such as education and science, videoconferencing, telepresence, healthcare, telemedicine, product design, engineering, and many more.

- Breathtaking 3D image quality enhances any presentation, lecture or training session
- Educational and training materials are far more realistic and engaging
- Complex 3D objects are more easily explained
- In videoconferencing and telepresence applications, 3D imaging increases the immersive experience for participants
- Corporate presentations and product launches are more impressive and have greater impact
The EYE-14 is a powerful high definition Live Image Camera system which give outstanding results, whether used as an alternative to a Ceiling Visualizer (without light), or when mounted on a tripod, pan-tilt zoom mount or wall mount designed for video or surveillance cameras. For ceiling use, this system can be either mounted directly onto the ceiling or integrated into a suspended ceiling.

**EYE-14**

The EYE-14 features a native 1080p HD camera with 980 lines resolution, 56x zoom, and comes with onboard HD video recording functionality and 8GB internal memory.

The camera system also features a single Center Lasermarker which marks the center point of the working surface, for easy positioning of objects. The lasermarker is synchronized with the frame rate of the camera, which means that whilst it is visible on the working surface, it is completely invisible in on-screen images and recordings.
Software & Apps: Extra features & functionality

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

vSolution App: Get more from your WolfVision systems
- Receive and record a stream of presentation and lecture content from a Cynap 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 can be used as a convenient web conferencing controller when using Zoom, MS Teams or WebRTC web meetings. Meetings can be started, joined, and controlled, and either a single Cynap window or all windows can be shared using the app.

vSolution Link Pro Remote administration & management
vSolution Link Pro software enables remote organisation and management of all vSolution Cynap family and Visualizer systems across multiple locations. It includes the following:
- Local administrator setup, device assignment and administrative functions
- Auto-update of firmware for single/multiple devices
- Rollout of settings to multiple Cynap systems
- Backup and restore of Cynap settings
- Status monitoring of Cynap and Visualizer systems

vSolution Cast: 4K mirroring
- 4K screen mirroring from Windows laptops.
- 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.
## Visualizer & Camera specifications

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<th>vSol. Cam</th>
<th>VZ-3neo</th>
<th>VZ-8neo</th>
<th>VZ-8neo+</th>
<th>VZ-8.UHD</th>
<th>VZ-9.4F</th>
<th>VZ-9.4L</th>
<th>VZ-CS</th>
<th>VZ-C1D</th>
<th>EYE-14</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2D/3D imaging</strong></td>
<td>2D</td>
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<td><strong>Horizontal resolution (lines)</strong></td>
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<td>980</td>
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<td><strong>Frames per second</strong></td>
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<td><strong>Effective megapixels per second</strong></td>
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<td><strong>Native output resolution</strong></td>
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<td>2160 UHD</td>
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<td><strong>Converted output resolution</strong></td>
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<td>UXGA, SXGA, XGA, SVGA</td>
<td>UXGA, SXGA, XGA, SVGA</td>
<td>UXGA, SXGA, XGA, SVGA</td>
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<td><strong>Digital image output</strong></td>
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<tr>
<td><strong>Computer input/output switch</strong></td>
<td>-</td>
<td>4x HD zoom</td>
<td>4x HD zoom</td>
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<tr>
<td><strong>High speed autofocus</strong></td>
<td>-</td>
<td>9-point Touch and Focus Mode</td>
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<td>9-point Touch and Focus Mode</td>
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<td>9-point Touch and Focus Mode</td>
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<td>9-point Touch and Focus Mode</td>
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<tr>
<td><strong>Camera rotation (audience/speaker)</strong></td>
<td>-</td>
<td>90° to audience</td>
<td>180°/10°</td>
<td>180°/10°</td>
<td>-</td>
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<tr>
<td><strong>User programmable presets</strong></td>
<td>1</td>
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<td>3</td>
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<tr>
<td><strong>Optional dry-erase writing surface</strong></td>
<td>-</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Swivel plate option with 90° rotation</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Image memory</strong></td>
<td>1 image freeze</td>
<td>1 image freeze</td>
<td>1 freeze 9 +USB stick (optional)</td>
<td>9 +USB stick</td>
<td>8 GB + USB stick</td>
<td>8 GB + USB stick</td>
<td>8 GB + USB stick</td>
<td>8 GB + USB stick</td>
<td>500 GB SSD +USB stick</td>
<td>8 GB SSD + USB stick</td>
</tr>
<tr>
<td><strong>Audio line in / line out</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Audio via HDMI In/Out</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Ethernet (LAN) port</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Video recording</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Infrared remote control</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Warranty (in years)</strong></td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td><strong>Made in Austria / Europe</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
</tbody>
</table>

*Average Measured resolution (2)*

Design and specifications subject to change!
### Cynap systems specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Cynap Pure</th>
<th>Cynap Pure Pro</th>
<th>Cynap Core Pro</th>
<th>Cynap</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating system</strong></td>
<td>Linux</td>
<td>Linux</td>
<td>Linux</td>
<td>Linux</td>
</tr>
<tr>
<td><strong>Output resolution</strong></td>
<td>2160p@60/30, 1080p@60/30, 720p@60</td>
<td>2160p@60/30, 1080p@60/30, 720p@60</td>
<td>2160p30, 1080p60/30 (4:4:4), 720p@60</td>
<td>2160p60, 2160p30, 1080p60</td>
</tr>
<tr>
<td><strong>Supported devices for wireless mirroring</strong></td>
<td>iOS, iPadOS, Android, Windows, macOS, iPadOS, Android, Windows</td>
<td>macOS, iPadOS, Android, Windows</td>
<td>macOS, iPadOS, Android, Windows</td>
<td>macOS, iPadOS, Android, Windows</td>
</tr>
<tr>
<td><strong>LAN ports</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>LAN cable</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Security</strong></td>
<td>802.1X</td>
<td>802.1X</td>
<td>802.1X</td>
<td>802.1X</td>
</tr>
<tr>
<td><strong>WLAN standards (Wi-Fi 5)</strong></td>
<td>2.4 and 5 GHz</td>
<td>2.4 and 5 GHz</td>
<td>2.4 and 5 GHz</td>
<td>2.4 and 5 GHz</td>
</tr>
<tr>
<td><strong>Network protocols</strong></td>
<td>TCP/IP, HTTP, HTTPS, SNTP/NTP, SSL, SSH, UDP</td>
<td>TCP/IP, HTTP, HTTPS, SNTP/NTP, SSL, SSH, UDP</td>
<td>TCP/IP, HTTP, HTTPS, SNTP/NTP, SSL, SSH, UDP, LDAP, LDAPS, DCB, PadS, Android, Windows</td>
<td>TCP/IP, HTTP, HTTPS, SNTP/NTP, SSL, SSH, UDP, LDAP, LDAPS, DCB, PadS, Android, Windows</td>
</tr>
<tr>
<td><strong>IP configuration</strong></td>
<td>DHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface priority</td>
<td>DHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface priority</td>
<td>DHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface priority</td>
<td>DHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface priority</td>
</tr>
<tr>
<td><strong>Security authentication for LAN</strong></td>
<td>IEEE 802.1X</td>
<td>IEEE 802.1X</td>
<td>IEEE 802.1X</td>
<td>IEEE 802.1X</td>
</tr>
<tr>
<td><strong>RMS encryption</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>External controlling</strong></td>
<td>Multi-touch display, web interface, room control system, keyboard/mouse, remote user control</td>
<td>Multi-touch display, web interface, room control system, keyboard/mouse, external remote control</td>
<td>Web interface, Visualizer, multi-touch display, room control system, keyboard/mouse, remote control, remote device status display</td>
<td>Remote control, web interface, Visualizer, multi-touch display, room control system, keyboard/mouse, external remote control, remote device status display</td>
</tr>
<tr>
<td><strong>Dimensions (L x W x H)</strong></td>
<td>115 x 110 x 37 mm (4.53 x 4.33 x 1.48&quot;)</td>
<td>115 x 110 x 37 mm (4.53 x 4.33 x 1.48&quot;)</td>
<td>203 x 196 x 67 mm (7.99 x 7.71 x 2.63&quot;)</td>
<td>245 x 245 x 79 mm (9.65 x 9.65 x 3.1&quot;)</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>65W-90W</td>
<td>65W-90W</td>
<td>Max. 80W</td>
<td>Max. 105W</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>490g (1.08lb)</td>
<td>490g (1.08lb)</td>
<td>Max. 1840g (4.05lb)</td>
<td>2530g (5.58lb)</td>
</tr>
<tr>
<td><strong>Optional accessories</strong></td>
<td>Optional remote control</td>
<td>Optional remote control</td>
<td>Optional remote control, 19&quot; rack mount, VESA mount (75mm /100mm)</td>
<td>Optional remote control, 19&quot; rack mount, VESA mount (75mm /100mm)</td>
</tr>
<tr>
<td><strong>Included accessories</strong></td>
<td>Power supply, VESA mount (75mm /100mm)</td>
<td>Power supply, VESA mount (75mm /100mm)</td>
<td>Power supply, antennas</td>
<td>Power supply, antennas, USB hub, HDBaseT-TX module</td>
</tr>
<tr>
<td><strong>Limited warranty</strong></td>
<td>3 years</td>
<td>3 years</td>
<td>3 years</td>
<td>3 years (optional extension to 5 years)</td>
</tr>
</tbody>
</table>

*Design and specifications subject to change!*
## vSolution MATRIX specifications

### Features

<table>
<thead>
<tr>
<th>Description</th>
<th>Feature pack option. Activate on a single Cynap system to enable network AV functionality between multiple Cynap and Cynap Core Pro systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Cynap systems requiring vSolution MATRIX Feature Pack</td>
<td>1</td>
</tr>
<tr>
<td>Maximum number of Cynap / Cynap Core Pro stations in room</td>
<td>40</td>
</tr>
<tr>
<td>Additional encoders / decoders required</td>
<td>No</td>
</tr>
<tr>
<td>Touchscreen compatibility</td>
<td>Yes</td>
</tr>
<tr>
<td>Maximum stream resolution</td>
<td>1080p30</td>
</tr>
<tr>
<td>Annotation (Collaboration Mode)</td>
<td>All connected stations can annotate on a single document. Content is moderated, and annotations from specific stations can be shown or hidden as required.</td>
</tr>
<tr>
<td>Control options</td>
<td>Browser-based control with user-defined Room View layout</td>
</tr>
<tr>
<td>Customisable Room View layout</td>
<td>Yes, drag &amp; drop configurator with user-defined stations labelled using names, numbers or colours</td>
</tr>
<tr>
<td>Room View Templates</td>
<td>Yes, up to 5 templates can be saved for installations using multiple room layouts</td>
</tr>
<tr>
<td>Define groups for screen content sharing</td>
<td>Yes, content sharing to groups from main screen possible for up to 5 pre-defined groups</td>
</tr>
<tr>
<td>Station Power On / Power Off feature</td>
<td>Yes</td>
</tr>
<tr>
<td>Show Screen / Show All Screens feature</td>
<td>Yes, status of currently displayed content on a specific screen or all screens can be checked via the Room View</td>
</tr>
<tr>
<td>Sharing content between multiple screens</td>
<td>Yes, push from the main station to a single client station or to all stations. Pull content from single stations to the main screen</td>
</tr>
<tr>
<td>Groupwork Mode</td>
<td>Enables individual stations to be used independently, without requiring the operation of the main station</td>
</tr>
<tr>
<td>Coaching Mode</td>
<td>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.</td>
</tr>
<tr>
<td>Encrypted file sharing from main station to client stations</td>
<td>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</td>
</tr>
<tr>
<td>Network requirements</td>
<td>1 Gigabit Ethernet</td>
</tr>
<tr>
<td>IP Multicast Group Address range</td>
<td>224.3.0.0 to 224.3.0.10</td>
</tr>
<tr>
<td>Switch requirement</td>
<td>1 Gigabit Ethernet, Layer 2 or Layer 3 with enabled IGMP snooping</td>
</tr>
<tr>
<td>Streaming</td>
<td>H.264</td>
</tr>
<tr>
<td>Audio</td>
<td>Audio can be activated on the student stations.</td>
</tr>
<tr>
<td>Management tools, remote setup, update and management</td>
<td>vSolution Link Pro software (for Windows 10 desktop, Windows 10, Windows Server (2012R2, 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.</td>
</tr>
<tr>
<td>Encryption of all wireless content (WLAN)</td>
<td>WEP, WPA2, WPA Enterprise or IEEE 802.1X</td>
</tr>
</tbody>
</table>

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Learn more about \textit{vSolution}

Please contact a WolfVision representative for more information, and experience the powerful performance, versatility, and usability of our unique, flexible systems and solutions for enhancing communication, collaboration, and knowledge sharing across all environments.