vSolution Cynap systems:
Collaboration & wireless presentation solutions

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WOLFVISION®
Driving the Creation
of Knowledge

vSolution
MATRIX
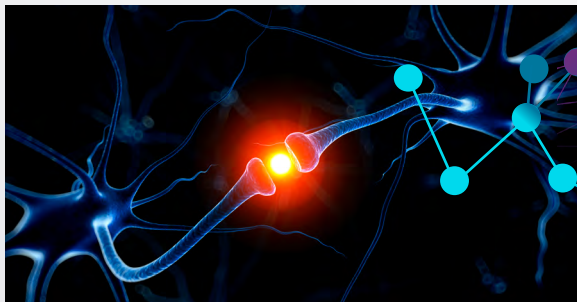Networked AV solutions

Collaboration, presentation & knowledge sharing

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.**

Just like in the human brain where synapses are essential for quick processing and transmission of information, Cynap and Cynap Core are unique, powerful, and flexible systems, that give you instant access to information of all types from any source.
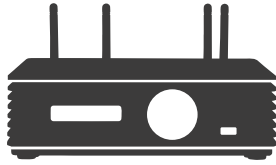
√Solution
CYNAP

Connecting media - connecting minds

"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.
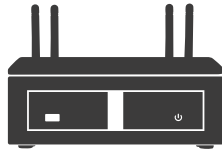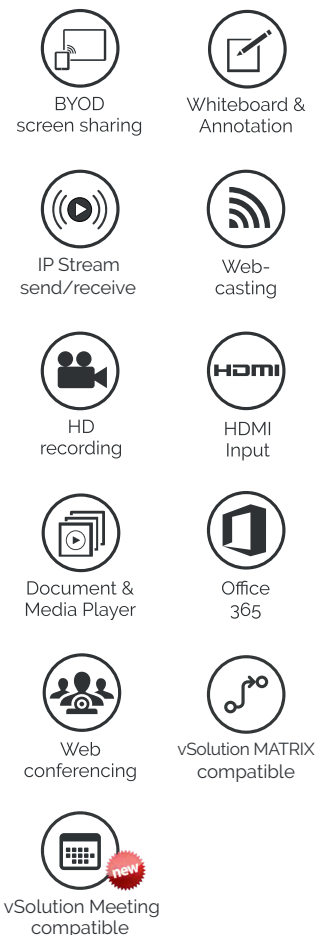
Choose your Cynap system!

CYNAP

vs

CYNAP CORE

vs

CYNAP PURE

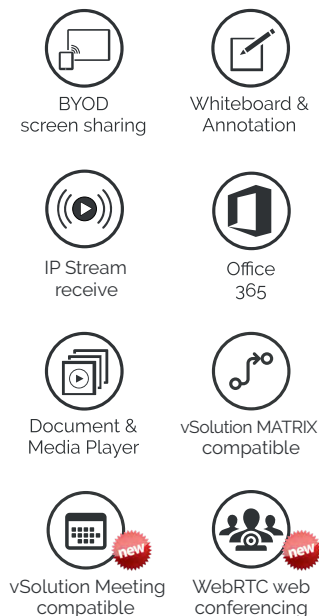### Centrepiece of the modern classroom & meeting room

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.

- BYOD screen sharing
- Whiteboard & Annotation
- IP Stream send/receive
- Web-casting
- HD recording
- HDMI Input
- Document & Media Player
- Office 365
- Web conferencing
- vSolution MATRIX compatible
- vSolution Meeting compatible *(new)*

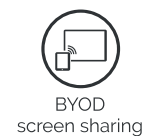### Compact collaboration & presentation solution

Easy to use collaboration system, providing ‚core essential' collaboration features. Its wireless screen sharing, media player, annotation and whiteboard features make it an ideal add-on to existing room infrastructure.

- BYOD screen sharing
- Whiteboard & Annotation
- IP Stream receive
- Office 365
- Document & Media Player
- vSolution MATRIX compatible
- vSolution Meeting compatible *(new)*
- WebRTC web conferencing *(new)*

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

4K ULTRA HD

Technology for modern working & learning

Never before has success in business been so dependent on effective knowledge sharing and collaboration between employees.

In educational institutions, successful learning depends on the effective implementation of innovative and creative teaching methods.

We support effective communication and collaboration with our technologically advanced but outstandingly easy to use Cynap solutions.

vSolution Cynap™ Presentation, Collaboration and Knowledge Sharing

Media player: Information on demand

Cynap can play, display, record, and stream 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 - without many of the limitations often found on other devices, and files are also accessible for playback using a connected USB stick.

Video recording / Lecture capture agent

Cynap features 1080pHD/30fps video recording which can capture all types of content materials and save them internally. With Cynap, flexible recording of multisource, multimedia educational content materials, for online, on-demand usage, is easier than ever before. Additionally, our optional Capture Feature Pack enables Cynap to act as a capture agent for Panopto and Opencast video management platforms.

Webcasting: Efficient knowledge sharing

Our optional Webcasting Feature Pack makes it simple to stream your lecture or meeting content for live or on-demand viewing via a Wowza or IBM Cloud Video streaming server or to YouTube or Facebook Live. Audiences can watch your videos anytime from anywhere they choose. Additionally, students or work colleagues on the same network as the presenter can receive and record a stream using our vSolution App.

Wireless presentation: Bring your own device (BYOD)

Cynap offers an all-in-one wireless BYOD solution, suitable for smartphones, tablets and laptops alike. Using an iOS, Android, Chrome OS, Windows or Mac device enables information to b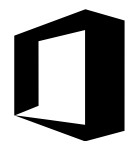e accessed from almost any source. AirPlay, Chromecast, and Miracast mirroring is supported, and up to 4 different devices can connect wirelessly to Cynap, and display on-screen content simultaneously in up to 4K UHD output resolution.

Office 365 Feature Pack

The Office 365 Feature Pack provides access to popular Office 365 apps such as Word, PowerPoint, Excel, Outlook, Skype for Business, and OneNote (active Office 365 account required).

Built-in web conferencing

An optional Skype for Business client can be integrated into Cynap. This enables point to point connection with any user with a Skype for Business enabled Office 365 account. A WebRTC web conferencing solution is also provided.

Whiteboard and annotation

Extra content material can be created quickly and easily 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.

Meeting room scheduling

The optional vSolution Meeting Feature Pack integrates a room booking feature into Cynap which interfaces perfectly with your Outlook Calendar, and also features flexible ad-hoc in-room booking capability.

Cynap Core: Core essentials for collaboration & presentation!

Cynap Core provides the core essential features you need for effective collaboration, and wireless presentation. With the same user-friendly technology, high performance processing, and enterprise-grade security features you'll find throughout our product line, with Cynap Core we've engineered a powerful, and easy to use collaboration system - the complete all-in-one meeting room solution.

App-free, dongle-free screen sharing!

Simply connect and share your screen using the wireless technology that's built into your own mobile device. Our wireless BYOD (bring your own device) solution suits all iOS, Android, Chrome OS, Windows and Mac devices - with full support for AirPlay, Chromecast, and Miracast screen mirroring.

Capture your big ideas!

It's easy to create extra content material using our built-in digital whiteboard and annotation features, and multiple users can annotate on-screen at the same time if required.

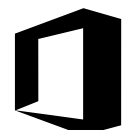## Display & share your files easily

Access, display, and share your data on-screen easily from cloud, network drives or mobile devices – even your laptop is no longer essential – just bring your content on a USB stick, or download it directly from the cloud!

vSolution Meeting Feature Pack

The optional vSolution Meeting Feature Pack integrates a room booking feature into Cynap Core which interfaces perfectly with your Outlook Calendar, and also features ad-hoc in-room booking capability. It's easy to upload files in advance of a meeting, and automatically distribute them afterwards, and the on-screen quick tools bar ensures quick and easy control of all content.

Office 365 Feature Pack

The optional Office 365 Feature Pack provides access via Cynap Core to popular Office 365 apps such as Word, PowerPoint, Excel, Outlook, and OneNote (active Office 365 account required). All your files are easy to open, work on collaboratively, and share with teammates. *Note: Skype for Business client not included.*
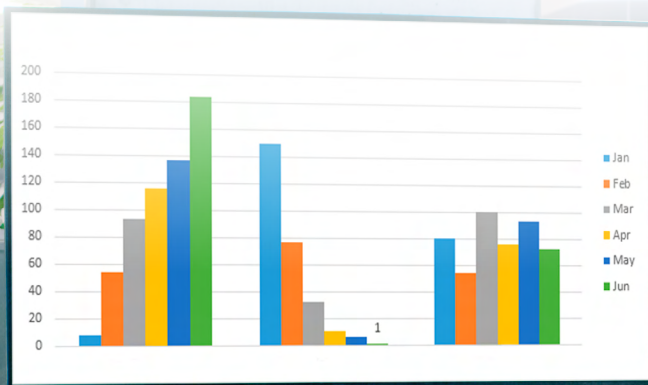
Cynap Pure: BYOD wireless presentation made easy!

Cynap Pure transforms your meeting room into an outstanding wireless BYOD presentation environment, with professional level features such as best-in-class security encryption, and remote administration capability.

Featuring outstanding mirroring performance, plus plug and play setup, we offer a robust and flexible solution, with free firmware updates included, 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.

With 4K UHD output resolution, up to 4 window on-screen display, plus app-free, dongle-free, support for all iOS, Android, Windows, Chrome OS, and macOS devices, this powerful wireless BYOD solution is an exciting compact addition to the Cynap family.

Pure perfection!
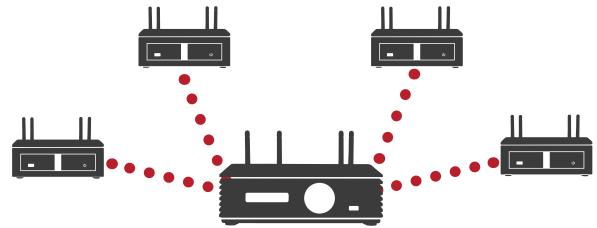
>> Easy to setup, simple to use

>> 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

vSolution MATRIX: Networked AV-based technology for active learning

vSolution MATRIX is an AV over IP-based collaboration solution from WolfVision, which uses multiple Cynap / Cynap Core 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 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.
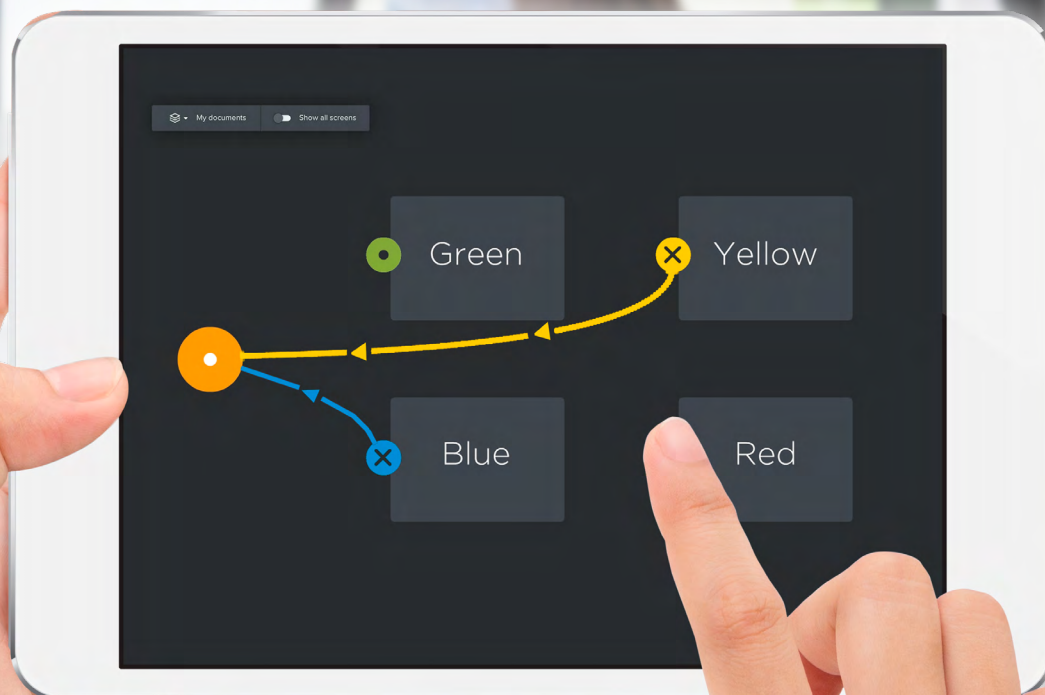
Easy drag & drop control of multiple screens

A Cynap 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 set up 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

Cost-effective installation

Using an existing IP network for transmission of AV signals means that there is no longer a need to maintain separate AV infrastructure. Cynap systems do not need additional encoding / decoding hardware which also means a reduction in hardware purchasing costs. Configuring vSolution MATRIX for Cynap also means that cabling requirements are reduced.

Enterprise level security features

Network security is an important factor when introducing a wireless collaboration solution into your organization. We provide a comprehensive, configurable set of security features, ensuring that vSolution MATRIX meets the security requirements of every organisation.

Easy administration and maintenance

Selecting Cynap and Cynap Core systems for your active learning classroom means less hardware, more straightforward installation plus reduced ongoing maintenance. You also have the flexibility to scale up or down easily in the future as required.
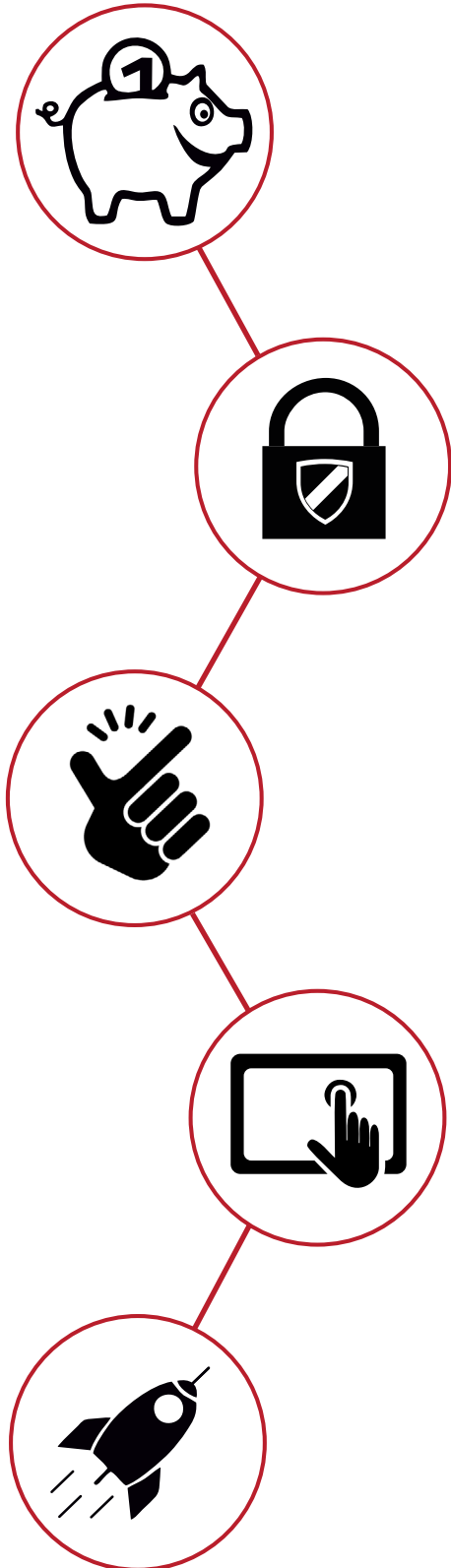
Simple to use / Drag & drop control

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

High performance system

Intelligent, optimised processing of streams, ensures high quality video and audio with low latency, and a moderate bandwidth requirement. Cynap systems configured with the vSolution MATRIX feature pack provide all the performance and reliability associated with traditional AV distribution methods.

Cynap

Cynap connectors with HDBaseT option

Cynap Core

Cynap Core connectors

Cynap Pure

Cynap Pure connectors

Protect your data!

Network security is a key consideration when introducing a wireless collaboration solution into your organization. We use the following technology to keep your data safe:

High level secure Linux system

Integrated Firewall protection

Enterprise level encyption

HTTPS encrypted connections

802.1x secure LAN and WLAN authentication

Feature lock options

Cynap Remote Control

WolfVision systems, software and apps are regularly updated. For the latest detailed information on new innovations, features, and functionality, please visit our website: wolfvision.com

Cynap systems specifications

Features	Cynap	Cynap Core	Cynap Pure new
Operating system	Linux	Linux	Linux
Output resolution	2160p60, 2160p30, 1080p60	2160p30, 1080p60, 1080p30	2160p30, 1080p60, 1080p30
Compatible device operating systems	All HTML5 supported browsers (iOS, Android, Windows, macOS etc.)	All HTML5 supported browsers (iOS, Android, Windows, macOS etc.)	All HTML5 supported browsers (iOS, Android, Windows, macOS etc.)
Supported devices for wireless mirroring	iOS, Android, Windows, macOS, Chrome OS	iOS, Android, Windows, macOS, Chrome OS	iOS, Android, Windows, macOS, Chrome OS
vSolution MATRIX compatible	Yes (main station via optional feature pack, or client)	Yes, client only	-
Media Player: Supported image file formats	GIF, JPEG, BMP, PNG	GIF, JPEG, BMP, PNG	-
Media Player: Supported document file formats	PDF, Word, PowerPoint, Excel, Text, HTML	PDF, Word, PowerPoint, Excel, Text, HTML	-
Media Player: Supported video file formats	AVI, WMV, MOV, MP4, DivX, MKV, M4V, OGV	AVI, WMV, MOV, MP4, DivX, MKV, M4V, OGV	-
Media Player: Supported audio file formats	MP3, WMA, MKA, OGA, OGG	MP3, WMA, MKA, OGA, OGG	-
Wireless device mirroring	Yes	Yes	Yes
Supported mirroring protocols	AirPlay, Miracast, Chromecast, vSolution Cast	AirPlay, Miracast, Chromecast, vSolution Cast	AirPlay, Miracast, Chromecast, vSolution Cast
Max. no. of on-screen windows	4	4	4
Dual screen function	Yes	-	-
Local streaming	Yes (Unicast/ Multicast), RTP, RTSP	-	-
Webcasting to Wowza, IBM Cloud Video (Ustream), YouTube and others (e.g. Facebook)	Yes, optional Webcasting Feature Pack	-	-
Local video recording	Yes, selectable up to 1080pHD, 30fps, .mp4 file	-	-
Optional Capture agent (Panopto/Opencast)	Yes, via Feature Pack option	-	-
Cloud services	Yes, Google Drive, Dropbox, Box, Jianguoyun, OneDrive, WebDAV protocol	Yes, Google Drive, Dropbox, Box, Jianguoyun, OneDrive, WebDAV protocol	-
Optional Office 365 Feature Pack	Yes	Yes, (Skype for Business not supported)	-
Optional vSolution Meeting Feature Pack	Yes	Yes	-
Access to network drives	Yes	Yes	-
Whiteboard and annotation	Yes	Yes	-
Protected/Open presentation modes	Yes	Yes	Yes (via room control system)
Dynamic on-screen content arrangement	Yes	Yes	Yes
Web conferencing	Skype for Business, WebRTC	WebRTC *(Available: Q2 2019)*	-
Customizable background image	Yes	Yes	Yes
Encrypt and save personal user settings	Yes, save onto USB stick	Yes, save onto USB stick	-
Integrated web browser and screensaver	Yes	Yes	-
Video input	HDMI x2 (HDMI with HDCP 1.4)	HDMI In not supported (frame grabber can be used to connect to HDMI source if required)	-
HDBaseT 1.0 input	Optional x1 (only when HDMI input 2 is not in use)	-	-
Video output	HDMI x2 (HDMI with HDCP 1.4)	HDMI x1	HDMI x1
HDBaseT 1.0 output	Optional x1 (only when HDMI output 1 is not in use)	-	-
Audio	Line in / Line out (unbalanced, 3.5mm mini jacks)	Line in / Line out (unbalanced, 3.5mm mini jacks)	Via HDMI out, USB
USB ports	Rear USB 3.0 ports x4, front USB 2.0 port x1	Rear USB 3.0 x4, Front USB 2.0 x1	Rear USB 3.0 x2, Front USB 3.0 x2
LAN ports	Yes, 2x 1GigE	Yes 2x 1GigE	Yes 1x 1GigE
Bluetooth device discovery	Yes	Yes	Yes
WLAN standards	802.11 ac/a/b/g/n (2.4 and 5GHz), up to 867Mbps	802.11 ac/a/b/g/n (2.4 and 5GHz), up to 867Mbps	802.11 ac/a/b/g/n (2.4 and 5GHz), up to 867Mbps
Network protocols	TCP/IP, FTP, HTTP, HTTPS, SNTP/NTP, SSL, SSH, UDP, LDAP, LDAPS	TCP/IP, FTP, HTTP, HTTPS, SNTP/NTP, SSL, SSH, UDP, LDAP, LDAPS	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	DHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface priority
Security authentication for LAN	IEEE 802.1X	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	WEP, WPA2, WPA2 Enterprise or IEEE 802.1X
RMS encryption	Yes	Yes	Yes
External controlling	Remote control, web interface, Visualizer, multi-touch display, room control system, keyboard/mouse, device status display	Web interface, Visualizer, multi-touch display, room control system, keyboard/mouse, optional remote control	Multi-touch display, web interface, room control system, keyboard/mouse, optional remote control
Dimensions (L x W x H)	245 x 245 x 79mm (9.65 x 9.65 x 3.1inch)	203 x 196 x 67mm (7.99 x 7.71 x 2.63 inch)	115 x 110 x 37 mm (4.53 x 4.33 x 1.46 inch)
Power consumption	Max. 105W	Max. 80W	Max. 65W
Weight	2530g (5.58lb) standard configuration 2655g (5.85lb) with HDBaseT (input & output)	1840g (4.05lb)	480g (1.06lb)
Optional accessories	19" rack unit mounting frame, under desk mount, USB hub, HDBaseT-TX module	Optional remote control, 19" rackmount, VESA mount (75mm /100mm)	Optional remote control
Included accessories	Remote control, power supply, antennas, LAN cable	Power supply, antennas	Power supply, VESA mount (75mm /100mm)
Free firmware updates	Yes	Yes	Yes
Limited warranty	3 years (optional warranty extension up to 5 years)	3 years (optional warranty extension up to 5 years)	3 years

vSolution MATRIX specifications

Features

Description	Feature pack option. Activate on a single Cynap system to enable network AV functionality between multiple Cynap and Cynap Core systems
Number of Cynap systems requiring vSolution MATRIX Feature Pack	1
Maximum number of Cynap / Cynap Core 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
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 software for Windows & 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

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

Design and specifications subject to change!

Find out more about WolfVision solutions

WolfVision is a worldwide provider of systems and services to leading universities, businesses, schools, and other organizations. Acknowledged as a 'technology leader' in the presentation solutions market, WolfVision takes the lead, setting standards worldwide for innovative, reliable, user-friendly, high performance presentation, collaboration, and knowledge sharing solutions.

Streamline your technology

There's no longer any need for racks full of AV equipment - simplify your technology and use Cynap's flexibility to configure a cost effective, all-in-one, secure presentation and collaboration solution that really suits the needs of your own organization - you don't have to settle for less - so talk to us now!

Driving the Creation of Knowledge

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