# vSolution Cynap™
Connecting media - connecting minds.

Effective presentation, collaboration, and 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.

Pioneering communication.
Just like in the human brain where synapses are essential for rapid processing and transmission of information, the WolfVision 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.
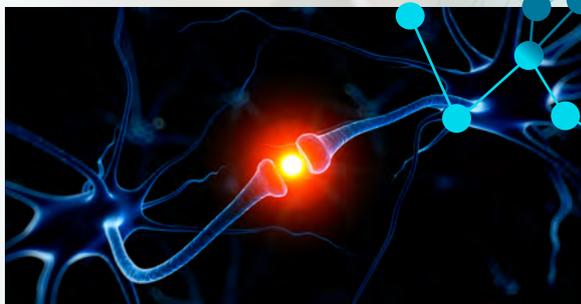
"*Cynap is a powerful collaboration system that enables high performance presentation, recording, and distribution of all types of multimedia content material.*"

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

vSolution Cynap™
Inspiring engagement,
interaction, and collaboration

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.

Webcasting:
Efficient knowledge sharing

Lecture or meeting content can be streamed live or on demand via a streaming server. This allows remote students or meeting participants to access information regardless of geographic location.

Deploying a streaming server, either locally or on the Internet, has the added benefit that streams can be easily transcoded, and delivered to audiences of any size, in multiple formats.

Bring your own device (BYOD)

The Cynap System offers an all-in-one wireless-BYOD solution, suitable for smartphones, tablets and laptops alike. Using an iOS, Android, Windows or Mac device enables information to be accessed from almost any source. AirPlay, Google Cast / 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.

Powerful video recording

The Cynap System features video recording functionality which can capture all presentation and lecture content. All types of content materials are captured in high definition, and saved internally. With Cynap, flexible recording of multisource, multimedia educational content materials, for online, on-demand usage, is easier than ever before.

Bring your own device (BYOD)

The Cynap System provides an outstanding BYOD solution for both education and business applications. Compatibility with iOS, Android, Windows, and Mac devices, gives users the freedom to access media easily, and share it effortlessly with others. Up to four users can share information on-screen at the same time, and with up to 4K UHD output resolution, displayed information always looks superb.

Unlimited content material on-screen
With support for AirPlay, Google Cast / Chromecast, and Miracast mirroring, and with dynamic content arrangement to optimize on-screen space, it's quick and easy to get information from virtually any location up on screen, and ready for instant display and distribution. Mirroring is an excellent solution for education, providing a convenient way for students to show their work spontaneously in the classroom.

WolfVision vSolution Connect app for tablets is a useful option, which can be used in combination with a Cynap System. The tablet functions as a multimedia control dashboard during presentations or lectures, with the key benefit that all media to be utilized during the session, can be prepared and saved as a template on the tablet, in advance of the actual presentation or lecture.

>> AirPlay   >> Google Cast
>> Miracast   >> vSolution Cast

Flexible recording and sharing of information

Cynap is ideal for recording online content material for use in flipped classroom, e/m learning, MOOC, or distance learning environments. For business applications, Cynap offers a quick and easy way to record and distribute meeting content.

The Cynap System features recording functionality which can capture all presentation and lecture content. Materials are captured in high definition, and saved either internally, or to a connected USB stick.

When automation of content distribution is desirable, recorded files can be tagged with identifying metadata, enabling automatic file upload to specific destinations on an FTP server. This enables easy access to materials via LMS such as Blackboard or Moodle, and means that Cynap can operate as a fully integrated lecture capture or meeting recording solution if required. *

vSolution Capture app
Make your own personalized recordings
Using our vSolution Capture app for iOS, Android, and Windows, enables virtually unlimited numbers of students or work colleagues in the same room as the presenter, to receive and record a stream of presentations and lectures from Cynap. A live stream of presentation content, including audio can be captured, and recipients can personalize their own copy of the recorded stream by adding notes and annotations in real-time.

* Feature under development

Webcasting – live or on-demand streaming of content

Content from lectures or meetings can be streamed live or on demand, via a streaming server such as Wowza or Ustream, allowing remote students or meeting participants to access information regardless of geographic location. *

Streaming servers deployed either locally or on the internet, have the added benefit that they are able to transcode a stream, and deliver it to audiences of any size, in multiple formats best suited to each individual receiver device. Cynap can also send a 'local' direct stream to almost unlimited numbers of meeting or class attendees using the vSolution Capture app. Cynap offers a comprehensive set of streaming features, easily configured to suit virtually any user requirements.

Feature under development

All formats. All locations. All devices.

Cynap plays, displays, records, and streams all commonly used media simultaneously, providing almost unlimited media options during presentations, lectures, and collaborative sessions. Participants can access files easily from virtually any source, enabling convenient playback via Cynap. Files are also playable from a connected USB stick.

'Best of both worlds' – connecting a Visualizer
In both education and business environments, there is often a need to show 'live' materials on-screen. Combining Cynap with a Visualizer system provides this flexibility, and uniquely allows users to utilize and combine content materials from both digital and physical sources.

Additional system benefits
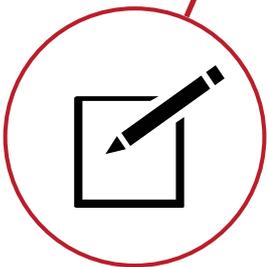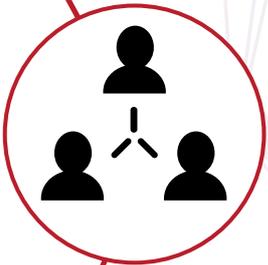
Taking control of your materials

The Cynap System comes with a remote control featuring an integrated keyboard for maximum ease of use. Control is also possible via a multi-touch display, a room control system, web browser, or by connecting a keyboard and mouse. A connected Visualizer can be used to control a Cynap System, and of course Cynap can also be used to control a Visualizer.

Optional HDBaseT

Optional HDBaseT connectivity enables HD video, audio, Ethernet, and controls, to be delivered using a single cable over extended distances. HDBaseT technology also provides the flexibility to install Cynap in a different location to the room where it is actually being used.

Maximum security

The Linux operating system keeps Cynap secure, and virus-free. It also ensures that there are no unwanted prompts or messages appearing on-screen during presentations or lectures. Principal users can also select either Open or Protected Modes to control device accessibility to Cynap.

A protected OSD menu enables individual features such as cloud services, WLAN, or support for external USB drives, to be disabled by administrators if desired, and HDCP support protects copyrighted materials, and prevents copying of digital audio, and video content as it passes across connections.

Worldwide effective collaboration

To cater for the increased popularity of web conferencing, a WebRTC solution is integrated into Cynap. This service is useful for both education and business; connecting users across a wide range of different devices and videoconferencing platforms, and enabling effective collaboration between colleagues in any location.

Spontaneous additional content creation

Extra content material can be created quickly and easily using the built-in digital whiteboard and annotation features of the Cynap System.

Technical specifications

Features

Core system	Linux operating system, 8GB memory, 64GB internal storage
Output resolutions	Up to 4K UHD (2160p60, 2160p30, 1080p60, 1080p30)
PC/Mac operating system support	Windows, OS X, (vSolution Link admin tool)
Compatible mobile device operating systems	iOS, Android, Windows Phone 8
Supported apps	vSolution Capture, vSolution Connect, vSolution Cast, vSolution Control
Supported image file formats	GIF, JPEG, BMP, PNG
Supported document file formats	PDF, Word, PowerPoint, Excel,
Supported video file formats	AVI, WMV, MOV, MP4, DivX, MKV, M4V, OGV
Supported audio file formats	MP3, WMA, MKA, OGA, OGG
Supported mirroring protocols	AirPlay, Miracast (no HDCP support), Google Cast / Chromecast, vSolution Cast (up to 30fps)
Max no. of devices simultaneously displaying material on-screen	4
Dual screen function	Yes
Max simultaneous receiver connections to Cynap via Capture app	Virtually unlimited (depending on network infrastructure)
Wireless device mirroring	Yes
Local streaming	Yes (Unicast/ Multicast)
Webcasting	Yes, to Wowza/ Ustream via optional Webcasting feature pack *
Local video recording	Yes, 1080p, 30fps
Capture agent	Yes, via optional Capture feature pack *
Cloud services	Yes, Google Drive, Dropbox
Access to network drives	Yes
Document and media player	Yes
Whiteboard and annotation	Yes
Presentation modes	Protected Mode, Open Mode
On-screen content arrangement	Dynamic, Fixed
Web conferencing	Integrated WebRTC interface
Integrated web browser	Yes
Customizable background image	Yes

Inputs / Outputs

Video input	HDMI x2 (HDMI 2.0)
HDBaseT 1.0 input	Optional x1 (can be used only when HDMI input 2 is not in use)
Video output	HDMI x2 (HDMI 2.0)
HDBaseT 1.0 output	Optional x1 (can be used only when HDMI output 1 is not in use)
Audio	Line in / Line out (3.5mm mini jacks)
USB ports	Rear USB 3.0 ports x4, front USB 2.0 port x1

Network Connectivity

WiFi standards	802.11 ac/a/b/g/n (2.4 and 5GHz)
Data rate	Wireless up to 900Mbps
Network protocols	TCP/IP, FTP, HTTP, SNTP/NTP
IP configuration	DHCP, Static
Security encryption	WEP, WPA, WPA2 Enterprise
Ethernet / LAN port – 1 GigE	Yes
Ethernet / LAN default settings	IP address, Subnet mask, Default gateway, DNS server

Others

External controlling	Remote control, web interface, Visualizer, multi-touch display, gyro sensor gesture control, room control system, keyboard and mouse, device status display
Dimensions (L x W x H)	245mm x 245mm x 79mm (9.65" x 9.65" x 3.1")
Mounting options	Optional 19" rack unit mounting frame, under desk mount
Included accessories	Remote control, power supply, antennas, HDMI and LAN cables
Limited warranty	3 years (optional warranty extension up to 5 years)

Feature under development   *Design and specifications subject to change!*

Learn more about
WolfVision ✓Solution

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.

Our extensive knowledge across all application sectors enables us to offer comprehensive consultative guidance on appropriate system selection, and our commitment to training and systems support ensures that you will receive maximum benefit from your investment. Please contact a WolfVision representative for more information.

Driving the Creation of Knowledge

All units made in Austria, Europe.

Printed in Germany, July 2016

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