

# vSolution MATRIX: Networked AV solutions for active learning classrooms & training rooms



#### Flexible active learning with Cynap Pro & Cynap Core Pro

vSolution MATRIX is an AV over IP collaboration solution which uses multiple Cynap Pro / Cynap Core Pro devices to stream video and audio between multiple screens using network infrastructure.

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, creating a system suitable 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.



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



# "

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

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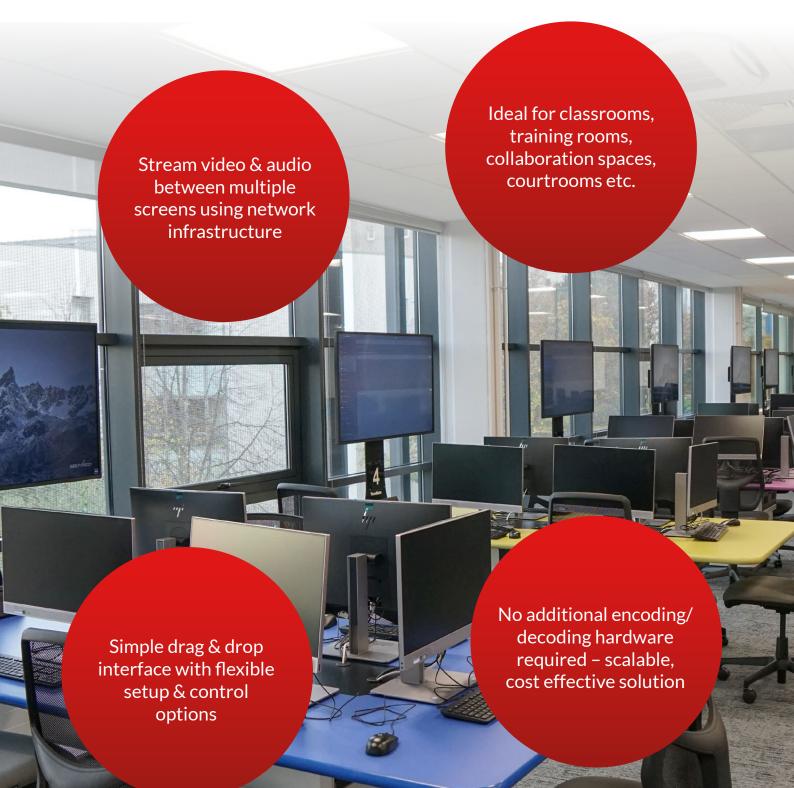
Head of Infrastructure and Media Services London Business School



London Business School

TeamMate

#### Networked AV solution using Cynap Pro & 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.

#### 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.

### Multi-functional workspaces

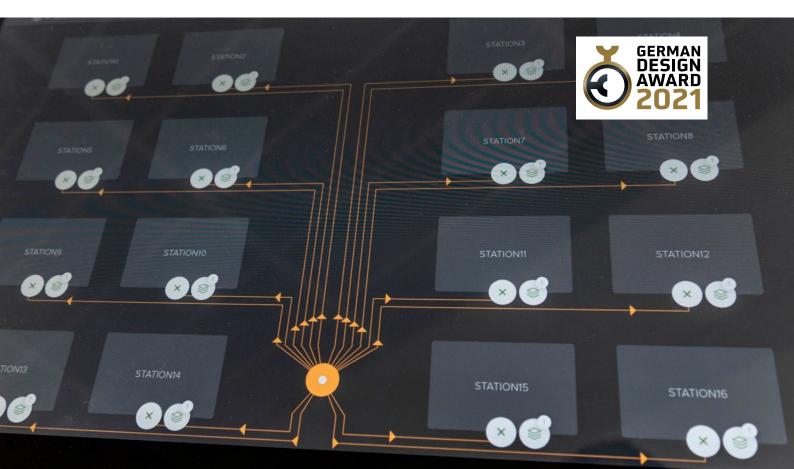


Individual and multiple workstations can operate independently of the main central station, enabling room usage to be maximised. Workstations can be used separately for breakout groups, or for small groups working independently during times when the entire room is not being used. If enabled, Groupwork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

### 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.



### System advantages

#### Multiple room layout templates



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.

#### 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.

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



Competitor solutions require the use of apps, dongles, and additional software. Only WolfVision offers a true app-free, dongle-free, hassle-free learning environment, providing a consistent user experience for all participants.

### 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.

### 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 or training room setup.

## 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.

### Files at your fingertips



We know that no two learning spaces 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!

## 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.

#### vSolution Cynap<sup>™</sup> Pro: At the centre of modern learning spaces

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, acts as a centrepiece of classrooms and training rooms. This is the 'main station' of our vSolution MATRIX collaboration solution.

#### Video recording / Lecture capture agent

Full HD local video recording captures all types of content materials, making flexible recording of multisource, multimedia educational content easier than ever before. The lecture capture integration enables Cynap to also act as a capture agent for Panopto and other compatible video management platforms.



#### Send files easily to multiple stations



Share your files easily from the cloud, network drives or mobile devices. Simply drag and drop to the required workstations – you can even configure files to open automatically on receipt.



#### Webcasting: Efficient knowledge sharing



Content can be streamed for live or on-demand viewing to Wowza, YouTube, and Facebook Live. Students or work colleagues on the same network as the presenter can also receive and record a stream to their mobile devices using our vSolution App.

### Integrated Microsoft 365 interface



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

#### Cynap Core Pro: Workstation essentials for active learning

Cynap Core Pro provides the core essential features you need for effective collaboration, and wireless presentation. Installed on each workstation (higher spec Cynap Pro systems can also be used) this key component of our vSolution MATRIX active learning classroom collaboration solution ensures an outstanding wireless working environment for all students.



#### App-free, dongle-free screen sharing!



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

#### Built-in multi-platform web conferencing!

Support for Zoom, Microsoft Teams and WebRTC video meetings means it's possible to start an instant meeting or join a scheduled Zoom meeting directly from within both Cynap Pro and Cynap Core Pro.

#### Webert ZOOM

#### Group annotation on a single document



It's easy to create extra content material using our digital whiteboard and annotation functionality. Students and teachers can also work together on a single document or other piece of content if required.

#### Display & share your files easily



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!

#### Cynap systems specifications

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Lack streaming         Yes Difficulty Municulty, RTP.RTS-P           Webcasting (Waxay, Yuu Jular, Facebook etc.]         Yes Sound Statuty, RTP.RTS, Stream, Park         Yes, via optional Facture Park.           Local victor recording         Yes, Soundead Facture Park.         Yes, Soundead Facture Park.           Cold victor recording         Yes, Soundead Facture Park.         Yes, Soundead Facture Park.           Cold victor recording         Yes, Congle Drive, Deepbox, Box, Jargen, Cherbark, WebLBW         Yes, Congle Drive, WebLBW           Microad 35 Sciences Andread         Yes, Congle Drive, Deepbox, Box, Jargen, Cherbark, WebLBW         Yes, Congle Drive, WebLBW           Access to recording         Yes, Macado Andread And	•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••	4
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Lock video recording         Yes, is applicable up to 1085QHPD, 30pc, npd file format         Yes, via applicable Parter Park           Capture Apprint Privanpta and their compatible video         Yes, Coogle Dirke, Drapton, Box, Yes, Yes, Coogle Dirke, Drapton, Box, Yes, Yes, Yes, Yes, Yes, Yes, Yes, Yes	·····	Yes (Unicast/ Multicast), RTP, RTSP	-
Capace Agent for Panopto, and other compatible video         Yes.         Ves. via optional Feature Plack.           Cload services         Ves. Google Drive, Drophoc, Bioc, Jangaovan, Cherbine, Weitzan         Ves. Cherbine Weitzan         Jangaovan, Cherbine, Weitzan           Access to network drives         Yes.         Yes.         Yes.           Whiteboard and arrotation         Yes.         Yes.         Yes.           Whiteboard and arrotation         Yes.         Yes.         Yes.           PredecedDrove precendation modes         Yes.         Yes.         Yes.           Ves.         Yes.         Yes.         Yes.         Yes.           Valuation Link Pro emote administration software         Yes. Windows Server (2012R2, 2014).         Yes.         Yes.           Ves.         Yes.	Webcasting (Wowza, YouTube, Facebook etc.)	Yes	Yes, via optional Feature Pack
matagement platforms         Yes, Goagle Dhie, Drophos, Box, Janguouru, Orebhie, WebDW         Janguouru, Orebhie, WebDW           Microsoft 365 integration         Yes, Coagle Dhie, Drophos, Box, Janguouru, Orebhie, WebDW         Yes           Advester Status         Yes         Yes         Yes           Status         Jes         Yes         Yes         Yes           Status         Jes         Yes         Yes         Yes           Status         Jes         Yes         Yes         Yes         Yes           Status         Yes         Yes         Yes         Yes         Yes         Yes	Local video recording	Yes, selectable up to 1080pFHD, 30fps, .mp4 file format	Yes, via optional Feature Pack
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Access to network drivesYesYesWhitectual and annotationYesYesProtectual/Open presentation modesYesYesWeb conferencing supportZoom, Microsoft Team, WebRTCZoom, Microsoft Team, WebRTCCustomizable background imageYesYesVeb conferencing supportZoom, Microsoft Team, WebRTCYesSolution Link Prorenote administration softwareWei finchuled for Windows 10, Windows Sener (2012R2, 2016), Wei finchuled for Windows 20, Windows 50, Windows Sener (2012R2, 2016), Wei finchuled for Windows 20, Windows Sener (2012R2, 2016), Wei sinchuled for Windows 20, Windows Sener (2012R2, 2016), Wei finchuled for Windows 20, Windo		•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••
Web conferencing supportYesYesProtected/Open presentation modesYesZoom, Microsoft Teams, WebRTCZoom, Microsoft Teams, WebRTCCautomizable indegrand largeYesYesCautomizable indegrand largeYesYesvislution Link Pro remote administration softwareYes, finctuded for Window Stor, Windows Storer (2012/22, 2016), Windows Web Server, macOSIYes, fonctuded for Windows 10, Windows Storer (2012/22, 2016), Windows Web Server, macOSIEncrypt and same personal user personal user personal user settingsYes, sear onto USB stor.Yes, with catomisable homepage, bootmarks and screems/ HOM XL, Lotatomisable homepage, bootmarks and screems/ HOM XL, HOM XL doal half of AL (2010/AL With HDCP 14), (additional optional HDM 11, NL Via third party USB framegrabberVideo inputOptional K (can be used only HDM with HDCP 14), HDM 10, XL Via third party USB framegrabberHODIA2; Li O InputOptional K (can be used only HDM Input 2 Inon in use)-Video outputOptional K (can be used only HDM with HDCP 14), HDM 10, XL XL for control monitor (huture used for contro	•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••
Protected/Open presentation modes         Yes         Yes           Web conferencing support         Zoom, Microsoft Teams, Web/RTC         Zoom, Microsoft Teams, Web/RTC           Customizable background image         Yes         Yes           vfolution Link Pro-remote administration software         Yes (included for Windows 10, Windows Server (2012PZ, 2016), Windows Web Server, macOS)         Yes (included for Windows 10, Windows Server (2012PZ, 2016), Windows Web Server, macOS)           Encrypt and save personal user settings         Yes, save onto USB sick         Yes, with customisable homepage, biodmarks and screensaver           Mode input         HDM //2 (JHDM with HDCP 14), (Jadditional optional HDDM //2 (JHDM with HDCP 14), (Jadditional optional HDM //2 (JHDM with HDCP 14), (Jadditional optional HDM //2 (JHDM with HDCP 14), (JADH //2 )         HDM //2 (JHDM with HDCP 14), (JADH //2 )           HDM //2 (and be used only HDM with HDCP 14), (JHDM //2 );         HDM //2 (JHDM with HDCP 14), (JADH //2 );           HDM //2 (and be used only HDM with HDCP 14), (JHDM //2 );         HDM //2 (JHDM with HDCP 14), (JADH //2 );           HDM //2 (and be used only HDM with HDCP 14), (JHDM //2 );         HDM //2 (JHDM with HDCP 14), (JADH //2 );           HDM //2 (and be used only HDM with HDCP 14), (JHDM //2 );         HDM //2 (JHDM with HDCP 14), (JHDM //2 );           HDM //2 (and be used only HDM with HDCP 14), (JHDM //2 );         HDM //2 (JHDM with HDCP 14), (JHDM //2 );           HDM //2 (and be used only HDM //2 (JHDM with HDCP 14), (JHDM //2 );	•••••••••••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •	•••••••••••••••••••••••••••••••••••••••
Web conferencing support.Zoom, Microsoft Teams, WebRICZoom, Microsoft Teams, WebRICCustomizable background imageYesYesvisolution Link Por remote administration softwareYes (included for Windows 10, Windows Server (201282, 2016), Windows Web Server, macOS)Yes (included for Windows 10, Windows Server (201282, 2016), Windows Server (201282, 2016), Windows Server, macOSIEncrypt and save personal user settingsYes, save onto USB slick.Yes, save onto USB slickIntegrated web browserYes, with customisable homepage, bookmarks and screensaverYes, with customisable homepage, bookmarks and screensaverVideo inputHDML x2 (HDM with HDCP 14), ladditional optional HDML x1 (unit per YUSB framegabber)HDML x1HDBaseT 1DirputOutcould (an be used only HDM) with HDCP 14), ladditional optional HDML x1 (unit per YUSB framegabber)HDML x1HDBaseT 1DirputOptional Link visa third party USB framegabber)HDML x1HDBaseT 1DirputOptional Link visa third party USB framegabber)HDML x1HDBaseT 1DirputOptional Link visa third party USB framegabber)Line in / Line out (unitational optional) HDML x1HDBaseT 1DirputOptional Link visa third party USB framegabber)Line in / Line out (unitational optional) HDML x1HDBaseT 1DirputOptional Link visa third party USB ZosRem USB 30 x4, Front USB Zos 1HDBaseT 1DirputOptional x1 (net with USB 20 x2Rem USB 30 x4, Front USB Zos 1LAutoLine in / Line Out (unitational optional) HDML x1Line visa third party USB Zos 2HDBaseT 1DirputYesYes 2 Arad 5 GHz <td< td=""><td>•••••••••••••••••••••••••••••••••••••••</td><td>• • • • • • • • • • • • • • • • • • • •</td><td>•••••••••••••••••••••••••••••••••••••••</td></td<>	•••••••••••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •	•••••••••••••••••••••••••••••••••••••••
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vs/slution Link Pro remote administration softwareYes (included for Windows 10, Windows Server (2012R2, 2016), Windows Web Server, mac CS)Yes (included for Windows Server (2012R2, 2016), Windows Web Server, mac CS)Encrypt and save personal user settingsYes, save onto USB slickYes, save onto USB slickIntegrated web browserYes, save onto USB slickYes, save onto USB slickVideo inputHDMI x2 (HDMI with HDCP 14), (additional optionalHDMI x1, (additional optional HDMI In x1 via third party USB framegrabber)HDB.sec F1.0 inputOptional (Lone used only whot Windows HDCP 14), HDMI Out x1HDMI x1, (additional optional HDMI In x1 via third party USB framegrabber)HDB.sec F1.0 inputOptional AI (only when HDMI hDCP 14), HDMI Out x1HDMI x1HDB.sec F1.0 inputOptional AI (only when HDMI whoth HDCP 14), HDMI Out x1HDMI x1HDB.sec F1.0 inputOptional AI (only when HDMI out x1 is not in use)-AddoLine In / Line Out (unbalanced 3.5mm), HDMI, USBUse in / Line out (unbalanced 3.5mm), HDMI, USBUSB portsRear USB 30 vA, front USB 20 vAYes 24 TGigEBuetodth device discoveryYesYes (device discovery for environments where Bonjour/mDNS is disabrdVAN standards, Wi-F15)24 and 5 GHzZand 5 GHzNetwork protocolsTCP/IFFIPHTTPS.NTPMTPSSL.SH.UDPLDAPLDAPSDHCPFIPHTTPS.NTPMTPSSL.SH.UDPLDAPLDAPSPerodigurationDE/GS Static (Pradieres, Statis display interface, Neal Yes, NDN NTPSSL.SH.UDPLDAPLDAPSDHCPFIPHTTPS.NTPMTPSSL.SH.UDPLDAPLDAPSSecurity authentication for LANIEEE 802.1XWEP.WPA2.WPA2 Enterprise or IEEE 802.1X <td>Web conferencing support</td> <td>Zoom, Microsoft Teams, WebRTC</td> <td>•••••••••••••••••••••••••••••••••••••••</td>	Web conferencing support	Zoom, Microsoft Teams, WebRTC	•••••••••••••••••••••••••••••••••••••••
Windows Web Server, macOS)Windows Web Server, macOS)Encrypt and save personal user settingsYes, save onto USB stickYes, save onto USB stickIntegrated web browserYes, with customisable homepage. bookmarks and screensaverYes, with customisable homepage. bookmarks and screensaverWideo inputHDM1x2 (hold initiable homepage. bookmarks and screensaver)HDM1x1, (hold initiable homepage. bookmarks and screensaver)HDBaseT 1.0 inputOptional X (and be used only whem HDM1 Input 2 is not in use)-HDBaseT 1.0 inputOptional X (and be used only whem HDM1 onput 2 is not in use)-HDBaseT 1.0 outputOptional X (only whem HDM1 output 1 is not in use)-HDBaseT 1.0 outputOptional X (only whem HDM1 output 1 is not in use)-HDBaseT 1.0 outputOptional X (only whem HDM1 output 1 is not in use)-HDBaseT 1.0 outputVes, 2x ToigeRear USB 30 x4, front USB 20 x2HDBaseT 1.0 outputYes, 2x ToigeYes 2x SoliegeHDM portsKes USB 30 x4, front USB 20 x2Rear USB 30 x4, front USB 20 x1LNA portsYes, 2x ToigeYes 2x SoliegeButcoth device discoveryYesScleadored SoliegeWAN standards Wr-FFS)24 and 5CHzZende SoliegeVendong LendongYes, passwordHCPNETSE, SNH UNPLDREIDAPSProndigurationDHCP, Static (P address, Subnet mask, Default gateway, DNS servery, Prox, Interface prioritySecurity authentication for LANIEEE 802.1XWEP WPA2.WPA2.WPA2.WEP2.Enterprise or IEEE 802.1XSecurity authentication for wireless WLANWEP WPA2.WPA2.WE		Yes	Yes
Integrated web browserYes, with customisable homepage, bookmarks and screensaverYes, with customisable homepage, bookmarks and screensaverVideo inputHDM x2 (HDMI with HDCP 1.4), (additional optional HDMI nx1 via third party USB framegrabber)HDMI x1 (additional optional HDMI nx1 via third party USB framegrabber)HDBaseT 1.0 inputOptional x1 (can be used only MbMI with HDCP 1.4), HDMI Out x1HDMI x1 (additional optional HDMI nx1 via third party USB framegrabber)HDBaseT 1.0 outputOptional x1 (can be used only MbMI with HDCP 1.4), HDMI Out x1HDMI x1HDBaseT 1.0 outputOptional x1 (only when HDMI output 1 is not in use)-AudioLine In / Line Out (unbalanced 3.5mm), HDMI, USBLine in / Line out (unbalanced, 3.5mm), HDMI, USBUSB portsRear USB 3.0 x4, front USB 2.0 x2Rear USB 3.0 x4, Front USB 2.0 x1LAN portsYes, 2x 1 GigEYes 2x 1 GigEBluetooth device discoveryYesYesVLAN standards (Wi-Fi 5)24 and 5 GHz24 and 5 GHzNetwork protocolsTCPIPEFTRHTTRHTTPKS.NTPATPRSSLSSH.UDP.LDAP.LDAPSCPIPERHTTPHTTPSSLSSH.UDP.LDAP.LDAPSPeoringurationServer), Proxy, interface priorityServer), Proxy, interface priorityServer), Proxy, interface prioritySecurity authentication for VLANIEEE 802.1XWEP.WPA2, WPA2 Enterprise or IEEE 802.1XWEP.WPA2, WPA2 Enterprise or IEEE 802.1XSecurity control septerYes, passwordYes, passwordYes, passwordExternal controllingRemote control, web interface, Fisalizer, multi-touch display, roomWeb interface, Visalizer, multi-touch display, room	vSolution Link Pro remote administration software		
Integrated web browserYes, with customisable homepage, bookmarks and screensaverYes, with customisable homepage, bookmarks and screensaverYideo inputHDMI x2 (HDMI with HDCP 14), (additional optional HDMI In x1 via third party USB framegrabber)HDMI x1, (additional optional HDMI In x1 via third party USB framegrabber)HDBaseT 1.0 inputOptional x1 (can be used only when HDMI input 2 is not in use)-Yideo outputHDMI x2 (can be used only HDMI with HDCP 14), HDMI Out x1 for control monitor (future use)HDMI x1 (additional optional HDMI In x1 via third party USB framegrabber)HDBaseT 1.0 outputOptional x1 (only when HDMI output 1 is not in use)-AudioLine in / Line Out (unbalanced 3.5mm), HDMI USBLine in / Line out (unbalanced 3.5mm), HDMI, USBUSB portsRear USB 3.0 x4, front USB 2.0 x2Rear USB 3.0 x4, front USB 2.0 x1LAN portsYes, Z IGigEYes Z I GigEBluetooth device discoveryYesYes (device discovery for environments where Bonjour/mDNS is disabled)VHAN standards (Wi-F15)24 and 5 GHz24 and 5 GHzNetwork protocolsTCP/IPFTPHTTPF, STTP NTPSSLSSH, UDPLDAP, LDAP; SUMP NTP, SSLTP NTP,		Yes, save onto USB stick	Yes, save onto USB stick
HDMI In x1 via third party USB framegrabber)(additional optional HDMI In x1 via third party USB framegrabber)HDBaseT 1.0 inputOptionalx1 (anb used only When HDMI with Inp2 2 is not in use)-Video outputHDMI x2 (can be used only HDMI with HDCP 1.4), HDMI Out x1 tor control monitor (future use)HDMI x1HDBaseT 1.0 outputOptional x1 (only when HDMI output 1 is not in use)-AudioLine In / Line Out (unbalanced 3.5mm), HDMI, USBLine in / Line out (unbalanced, 3.5mm), HDMI, USBUSB portsRear USB 30.4, front USB 20.42Rear USB 30.4, Front USB 20.42LAN portsYes, 2x 1GigEYes (device discovery for environments where Bonjour/mDNS is disabed)WLNN standards (Wi-Fi 5)24 and 5 GHz24 and 5 GHzIP configurationDHCP Static (IP address, Subnet mask, Default gateway, DNS server), Prox, Interface priorityDHCP. Static (IP address, Subnet mask, Default gateway, DNS server), Prox, Interface prioritySecurity authentication for LANIEEE 802.1XIEEE 802.1XKMS protectionYes, passwordYes, passwordKMS protectionYes, passwordYes, passwordKMS protectionYes, passwordYes, passwordKMS protectionKes, passwordWes, passwordKMS protectionKes, passwordW		Yes, with customisable homepage, bookmarks and screensaver	Yes, with customisable homepage, bookmarks and screensaver
Video outputHDMI x2 (can be used only HDMI with HDCP 1.4), HDMI Out x1 for control monitor (future use)HDMI x1HDBaseT 1.0 outputOptional x1 (only when HDMI output 1 is not in use)-AudioLine In / Line Out (unbalanced 3.5mm), HDMI, USBLine in / Line out (unbalanced 3.5mm), HDMI, USBUSB portsRear USB 30.x4, front USB 2.0.x2Rear USB 30.x4, Front USB 2.0.x1LAN portsYes, 2x 1GigEYes 2x 1GigEBluetooth device discoveryYesYes (device discovery for environments where Bonjour/mDNS is disabled)WLAN standards (Wi-Fi 5)2.4 and 5 GHz2.4 and 5 GHzNetwork protocolsTCP/IP.FTP.HTTP.HTTPS,SNTPNTP.SSL,SSH, UDP,LDAP,LDAPSTCP/IP.FTP.HTTP.HTTPS,SSL,SSH, UDP,LDAP,LDAPSIP ConfigurationDHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface priorityServer, Proxy, Interface prioritySecurity authentication for LANIEEE 802.1XIEEE 802.1XRMS protectionYes, passwordYes, passwordFixernal controllingRemote control, web interface, Visualizer, multi-touch display, room control system, keyboard/mouse, device status displayWeb interface, visualizer, multi-touch display, room control system keyboard/mouse, device status displayPower consumptionMax. 105WMax.80W	Video input		HDMI x1, (additional optional HDMI In x1 via third party USB framegrabber)
HDBaseT 1.0 outputOptional XI (only when HDMI output 1 is not in use)AudioLine in / Line Out (unbalanced 3.5mm), HDMI, USBLine in / Line out (unbalanced, 3.5mm), HDMI, USBUSB portsRear USB 30 x4, front USB 2.0 x2Rear USB 3.0 x4, Front USB 2.0 x1LAN portsYes, 2x 1 GigEYes 2x 1 GigEBluetooth device discoveryYesYes (device discovery for environments where Bonjour/mDNS is disabled)WLAN standards (Wi-F15)2.4 and 5 GHz2.4 and 5 GHzNetwork protocolsTCP/IP.FTR.HTTP.S.NTPNTP.SSL.SSH, UDP.LDAP.LDAPSTCP/IP.FTR.HTTP.S.NTPNTP.SSL.SSH, UDP.LDAP.LDAPSIP configurationDHCP. Static (IP address, Subnet mask, Default gateway, DNS server). Proxy, Interface priorityDHCP. Static (IP address, Subnet mask, Default gateway, DNS server). Proxy, Interface prioritySecurity authentication for LANIEEE 802.1XIEEE 802.1XRMS protectionYes, passwordYes, passwordExternal controlingRemote control, web interface, Visualizer, multi-touch display, room control syster, keyboard/mouse, device status displayWeb interface, Visualizer, multi-touch display, room control syster, keyboard/mouse, device status displayDimensions (LxWxH)428 x218,7 x88.2mm (16.85 x8.6x x3.47)/4.5kg (9.9lb)203 x196 x6.7mm (7.99 x7.71 x2.63')Power consumptionMax.105WMax.80WMax.80W	HDBaseT 1.0 input	Optional x1 (can be used only when HDMI input 2 is not in use)	-
AudioLine In / Line Out (unbalanced 3.5mm), HDMI, USBLine in / Line out (unbalanced, 3.5mm), HDMI, USBUSB portsRear USB 3.0 x4, front USB 2.0 x2Rear USB 3.0 x4, Front USB 2.0 x1LAN portsYes, 2x 1 GigEYes 2x 1 GigEBluetooth device discoveryYesYes24 and 5 GHz24 and 5 GHzNcNAN standards (Wi-Fi 5)24 and 5 GHzVLAN standards (Wi-Fi 5)24 and 5 GHzVE24 and 5 GHzNetwork protocolsTCP/IP,FTP,HTTP,SNTPNTP,SSL,SSH, UDP,LDAP,LDAPSIP configurationDHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface prioritySecurity authentication for LANIEEE 802.1XResponseWEP, WPA2, WPA2 Enterprise or IEEE 802.1XRMS protectionYes, passwordYes, passwordVes, passwordExternal controllingRemote control, web interface, Visualizer, multi-touch display, room control system, keyboard/mouse, device status displayDimensions (Lx W x H)428 x218.7 x 88.2mm (16.85 x 8.6 x 3.477) / 4.5kg (9.9lb)Power consumptionMax. 105W	Video output		HDMIx1
USB portsRear USB 3.0 x4, front USB 2.0 x2Rear USB 3.0 x4, Front USB 2.0 x1LAN portsYes, 2x 1GigEYes 2x 1GigEBluetooth device discoveryYesYes (device discovery for environments where Bonjour/mDNS is disabled)WLAN standards (Wi-Fi 5)24 and 5 GHz24 and 5 GHzNetwork protocolsTCP/IP.FTP.HTTP.HTTPS.SNTP/NTP.SSL.SSH, UDP.LDAP.LDAPSTCP/IP.FTP.HTTP.HTTPS.SNTP/NTP.SSL.SSH, UDP.LDAP.LDAPSIP configurationDHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface priorityDHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface prioritySecurity authentication for LANIEEE 802.1XIEEE 802.1XMS protectionYes, passwordYes, passwordExternal controllingRemote control, web interface, Visualizer, multi-touch display, room control system, keyboard/mouse, device status displayWeb interface, Nusulizer, multi-touch display, room control system keyboard/mouse, device status display203 x 196 x 67mm (7.99 x 7.71 x 2.63')Power consumptionMax. 105WMax.80W	HDBaseT 1.0 output	Optional x1 (only when HDMI output 1 is not in use)	-
LAN portsYes, 2x 1GigEYes 2x 1GigEBluetooth device discoveryYesYesYes (device discovery for environments where Bonjour/mDNS is disabled)WLAN standards (Wi-Fi 5)24 and 5 GHz24 and 5 GHzNetwork protocolsTCP/IP, FTP, HTTP, HTTPS, SNTP/NTP, SSL, SSH, UDP, LDAP, LDAPSTCP/IP, FTP, HTTP, HTTPS, SNTP/NTP, SSL, SSH, UDP, LDAP, LDAPSIP configurationDHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface priorityDHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface prioritySecurity authentication for LANIEEE 802.1XIEEE 802.1XRMS protectionYes, passwordYes, passwordExternal controllingRemote control, web interface, Visualizer, multi-touch display, room control system, keyboard/mouse, device status displayWeb interface, Visualizer, multi-touch display, room keyboard/mouse, device status displayDimensions (L x W x H)428 x 218.7 x 88.2mm (16.85 x 8.6 x 3.47") / 4.5kg (9.9lb)203 x 196 x 67mm (7.99 x 7.71 x 2.63")Power consumptionMax. 80WMax. 80W	Audio	Line In / Line Out (unbalanced 3.5mm), HDMI, USB	Line in / Line out (unbalanced, 3.5mm), HDMI, USB
Bluetooth device discoveryYesYesYesBluetooth device discovery for environments where Bonjour/mDNS is disabled)WLAN standards (Wi-Fi 5)2.4 and 5 GHz2.4 and 5 GHzNetwork protocolsTCP/IP,FTP,HTTP,HTTPS,SNTP/NTP,SSL,SSH,UDP,LDAP,LDAPSTCP/IP,FTP,HTTP,HTTPS,SNTP/NTP,SSL,SSH,UDP,LDAP,LDAPSIP configurationDHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface priorityDHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface prioritySecurity authentication for LANIEEE 802.1XIEEE 802.1XRMS protectionYes, passwordYes, passwordExternal controllingRemote control, web interface, Visualizer, multi-touch display, room control systerm, keyboard/mouse, device status displayWeb interface, Visualizer, multi-touch display, room keyboard/mouse, optional remote controlDimensions (L x W x H)428 x 218.7 x 88.2mm (16.85 x 8.6 x 3.47") / 4.5kg (9.9lb)203 x 196 x 67mm (7.99 x 7.71 x 2.63")Power consumptionMax. 105WMax. 80W	USB ports	Rear USB 3.0 x4, front USB 2.0 x2	Rear USB 3.0 x4, Front USB 2.0 x1
Bluetooth device discoveryYes		Yes, 2x 1GigE	Yes 2x 1GigE
WLAN standards (Wi-Fi 5)24 and 5 GHz24 and 5 GHzNetwork protocolsTCP/IP,FTP,HTTP,HTTPS,SNTP/NTP,SSL,SSH,UDP,LDAP,LDAPSTCP/IP,FTP,HTTP,HTTPS,SNTP/NTP,SSL,SSH,UDP,LDAP,LDAPSIP configurationDHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface priorityDHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface prioritySecurity authentication for LANIEEE 802.1XIEEE 802.1XSecurity encryption for wireless WLANWEP, WPA2, WPA2 Enterprise or IEEE 802.1XWEP, WPA2, WPA2 Enterprise or IEEE 802.1XRMS protectionYes, passwordYes, passwordExternal controllingRemote control, web interface, Visualizer, multi-touch display, room control system, keyboard/mouse, device status displayWeb interface, Visualizer, multi-touch display, room control system, keyboard/mouse, device status displayDimensions (L x W x H)428 x 218.7 x 88.2mm (16.85 x 8.6 x 3.47")/4.5kg (9.9lb)203 x 196 x 67mm (7.99 x 7.71 x 2.63")Power consumptionMax. 105WMax. 80W	Bluetooth device discovery	Yes	
IP configurationDHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface priorityDHCP, Static (IP address, Subnet mask, Default gateway, DNS server), Proxy, Interface prioritySecurity authentication for LANIEEE 802.1XIEEE 802.1XSecurity encryption for wireless WLANWEP, WPA2, WPA2 Enterprise or IEEE 802.1XWEP, WPA2, WPA2 Enterprise or IEEE 802.1XRMS protectionYes, passwordYes, passwordExternal controllingRemote control, web interface, Visualizer, multi-touch display, room control system, keyboard/mouse, device status displayWeb interface, Visualizer, multi-touch display, room control system keyboard/mouse, optional remote controlDimensions (L x W x H)428 x 218.7 x 88.2mm (16.85 x 8.6 x 3.47")/4.5kg (9.9lb)203 x 196 x 67mm (7.99 x 7.71 x 2.63")Power consumptionMax. 105WMax. 80W		2.4 and 5 GHz	2.4 and 5 GHz
server), Proxy, Interface priorityserver), Proxy, Interface prioritySecurity authentication for LANIEEE 802.1XSecurity encryption for wireless WLANWEP, WPA2, WPA2 Enterprise or IEEE 802.1XRMS protectionYes, passwordExternal controllingRemote control, web interface, Visualizer, multi-touch display, room control system, keyboard/mouse, device status displayDimensions (LxWxH)428 x218.7 x88.2mm (16.85 x 8.6 x 3.47")/4.5kg (9.9lb)Power consumptionMax. 105W	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
Security encryption for wireless WLAN       WEP, WPA2, WPA2 Enterprise or IEEE 802.1X       WEP, WPA2, WPA2 Enterprise or IEEE 802.1X         RMS protection       Yes, password       Yes, password       Yes, password         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         Dimensions (L x W x H)       428 x 218.7 x 88.2mm (16.85 x 8.6 x 3.47")/4.5kg (9.9lb)       203 x 196 x 67mm (7.99 x 7.71 x 2.63")         Power consumption       Max. 105W       Max. 80W	IP configuration		
RMS protection       Yes, password       Yes, password         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         Dimensions (LxWxH)       428 x 218.7 x 88.2mm (16.85 x 8.6 x 3.47") / 4.5kg (9.9lb)       203 x 196 x 67mm (7.99 x 7.71 x 2.63")         Power consumption       Max. 105W       Max. 80W	Security authentication for LAN	IEEE 802.1X	IEEE 802.1X
External controllingRemote control, web interface, Visualizer, multi-touch display, room control system, keyboard/mouse, device status displayWeb interface, Visualizer, multi-touch display, room control system keyboard/mouse, optional remote controlDimensions (Lx W x H)428 x 218.7 x 88.2mm (16.85 x 8.6 x 3.47") / 4.5kg (9.9lb)203 x 196 x 67mm (7.99 x 7.71 x 2.63")Power consumptionMax. 105WMax. 80W	Security encryption for wireless WLAN	WEP, WPA2, WPA2 Enterprise or IEEE 802.1X	WEP, WPA2, WPA2 Enterprise or IEEE 802.1X
control system, keyboard/mouse, device status display     keyboard/mouse, optional remote control       Dimensions (L x W x H)     428 x 218.7 x 88.2mm (16.85 x 8.6 x 3.47")/4.5kg (9.9lb)     203 x 196 x 67mm (7.99 x 7.71 x 2.63")       Power consumption     Max. 105W     Max. 80W	RMS protection	Yes, password	Yes, password
Dimensions (LxWxH)         428 x 218.7 x 88.2mm (16.85 x 8.6 x 3.47") / 4.5kg (9.9lb)         203 x 196 x 67mm (7.99 x 7.71 x 2.63")           Power consumption         Max. 105W         Max. 80W	-	Remote control, web interface, Visualizer, multi-touch display, room	Web interface, Visualizer, multi-touch display, room control system, keyboard/mouse, optional remote control
Power consumption Max. 105W Max. 80W		•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••
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Optional accessories 19" rack unit mounting, under desk mount, Optional remote control, 19" rackmount,	•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••	
Optional accessories     19 Tack initiation initing, under desk induitit, HDBaseT-TX module     Optional reinder control, 19 Tackhount, VESA mount (75mm /100mm)	o provinar accession res		
Included accessories Power cable, 4x antennas, rackmount/table mount kit, remote control on Power supply, 4x wifi antennas request	Included accessories		Power supply, 4x wifi antennas
Limited warranty       3 years (optional extension to 5 years)/EU/Austria       3 years (optional extension to 5 years)	Limited warranty	3 years (optional extension to 5 years)/EU/Austria	3 years (optional extension to 5 years)

#### vSolution MATRIX specifications

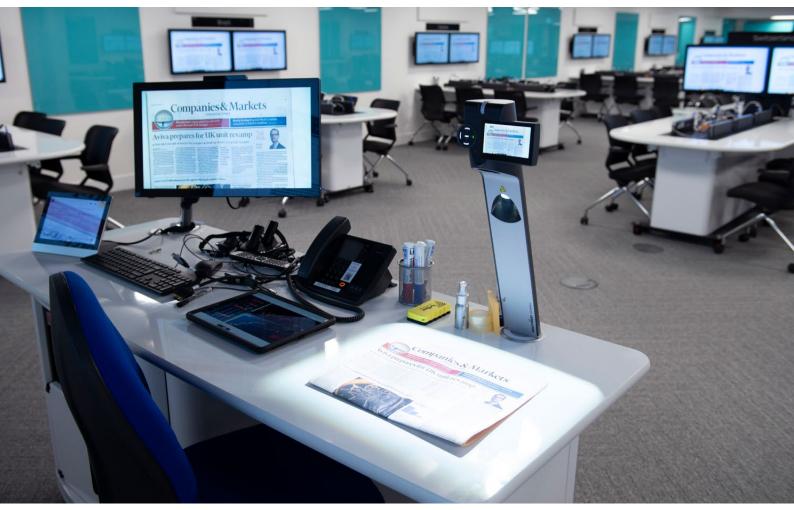
Description	Feature pack option. Activate on a single Cynap Pro system to enable network AV functionality
	between multiple Cynap Pro and Cynap Core Pro systems
Number of Cynap Pro systems requiring vSolution MATRIX Feature Pack	1
Maximum number of Cynap Pro / Cynap Core Pro stations in room	40
Additional 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 annota- tions 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. Alternati- vely 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 Cynap Pro/Cynap Core Pro system capabilities

Design and specifications subject to change!



#### Find out more about WolfVision solutions!



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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.

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