



# LIGHTWARE

INNOVATIVE, RELIABLE, MADE IN EUROPE.



## CORPORATE

Delivering AV Solutions to Empower  
Corporate Collaboration



HYBRID MEETING SPACES



CONFERENCE ROOMS



CONTROL ROOMS



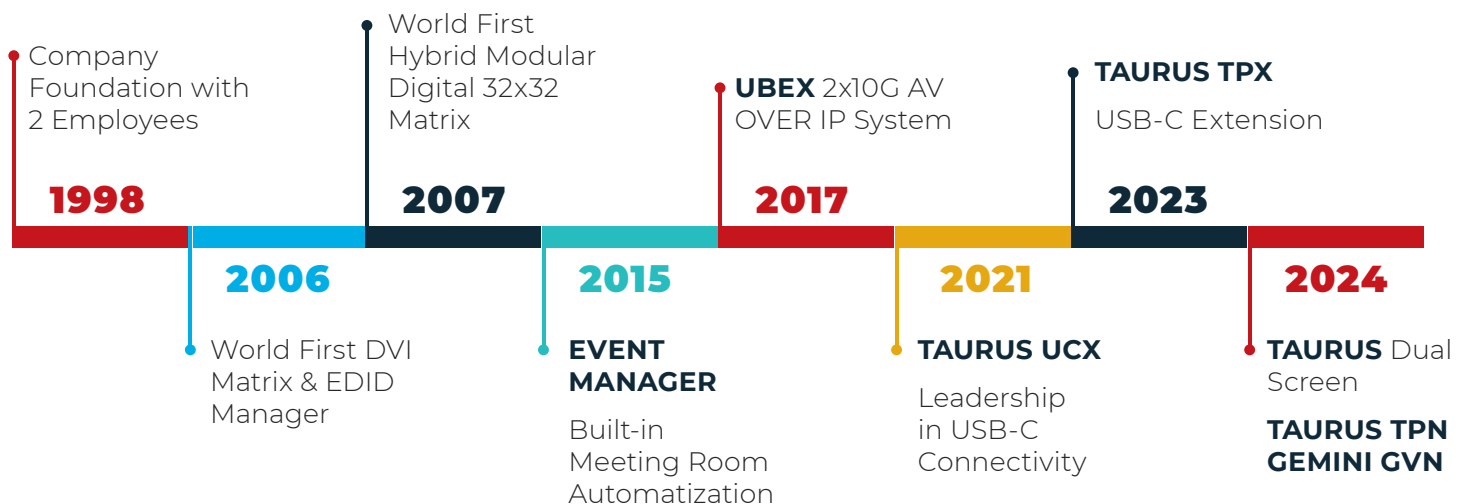
TRAINING CENTERS

# THE VALUES WE DELIVER TO OUR PARTNERS



Established in 1998, **Lightware Visual Engineering** has become a pioneer in the design, development, and manufacturing of reliable and innovative professional AV products and technologies. Our solutions have become a staple for AV signal management and transportation in the world of professional system integration.

## A few of our most important milestones include the following:



## Seven Reasons to Go for Lightware:

- 1.** We provide uncompromising solutions for video, audio, and control signal management. Many of our **products enable 4K60Hz 4:4:4 uncompressed signal delivery with zero latency.**
- 2.** With our **pioneering approach**, we set the AV industry trends and build innovative products.
- 3.** We offer **plethora of features, versatility, and flexibility** of our solutions to fit any project and to attend to any task.
- 4.** Over 25 years, we have built a **unique expertise you can rely on.**
- 5.** We have a **global presence**; our devices serve AV applications across 4 continents.
- 6.** We take our customers' success personally and are ready to **go the extra mile for you!**
- 7.** As a **European manufacturer**, we design and manufacture our products in house at **our headquarters in Budapest, Hungary.**

# OUR AWARD-WINNING SOLUTIONS

OUR PRODUCTS HAVE RECEIVED HIGH RECOGNITION FROM THE PROFESSIONAL AV COMMUNITY.



**AV AWARDS 2022  
WINNER**  
Taurus UCX - Collaboration  
Technology of the Year  
UBEX - Event  
Technology of the Year



**At Integrated Systems Europe 2022**, Lightware received the **Best of Show Award for Taurus UCX** in the AV Technology category.

At the end of 2022, our products also won **two AV Awards: UBEX received the Event Technology of the Year** award, and the **Taurus UCX took home the trophy for the Collaboration Technology of the Year**.

**At Integrated Systems Europe 2023**, Lightware marked its 25-Year anniversary with **two Best of Show Awards for the UBEX and VINX AV-over-IP extenders**.

**At Infocomm 2023** our world premiere **USB-C extension product – Taurus TPX - won the prestigious Best of the Show Award** in the AV Technology category. Moreover, **PSNI Global Alliance awarded Lightware with the Growth Driver** prize after already recognizing the company last year with the **Rising Star trophy**.



**We are grateful to know that our award-winning devices continue to gain traction and praise among our professional peers!**

**TAURUS product family of UCX, DCX, TPX, and TPN devices, UBEX, VINX, and GVN signal extension products ideally serve meeting room environments of all sizes providing feature-rich, scalable, and flexible solutions for audiovisual connectivity and collaboration:**

**Enhanced user experience** is built on zero or outstandingly low latency, high image quality, and synchronization ensuring that contents are displayed accurately and without disruptions.

**Collaboration and content sharing** are seamless with Lightware: users present and collaborate wired or wirelessly, sharing their screens, documents, and interactive whiteboarding.

**Seamless distribution** of data, audio, video, and control signals **over IP networks to share content from various sources**, such as laptops, tablets, and media players, **to multiple displays** in the meeting room.

**Scalability and expandability** of our solutions provide flexibility to align the growth of your AV system with corporate needs without significant infrastructure changes.

**Centralized control and management** includes signal routing, video wall configuration, and device monitoring. Users can switch sources, adjust settings, and manage the meeting room technology with intuitive interfaces.

Lightware solutions offer a powerful array of features and benefits that enhance the overall meeting room experience, improve collaboration and tremendously contribute to the engagement of remote and in-office participants. By leveraging these solutions, businesses build efficient, flexible, and collaborative meeting spaces that cater to the evolving needs of modern workplaces.

# LIGHTWARE FOR HYBRID MEETING SPACES AND LARGE CONFERENCE ROOMS

THE CORPORATE WORKPLACE LANDSCAPE HAS CHANGED DRAMATICALLY IN RECENT YEARS. **MEETING SPACES ARE EXPECTED TO ACCOMMODATE REMOTE ATTENDEES TO ENABLE HYBRID COLLABORATION** OF DISTANT AND IN-OFFICE COLLEAGUES.

Including remote participants adds distinctive and complex challenges, such as:

- Remote participants often **struggle with poor quality audio and video** and can have problems sharing content.
- In-office participants can be challenged by the **complexity of connecting and sharing content**.
- There is a **lack of corporate consistency with the interfaces** and methods of working with popular unified communications platforms, such as Cisco Webex, Microsoft Teams, Zoom, Google Meet, and more.

Now that hybrid corporate meetings have become standard, organizations and system integrators are tasked to **enable technical equality for both virtual and in-room participants** to maintain their engagement and enhanced productivity.

With Lightware's award-winning products, corporations transform their remote meetings into immersive and engaging collaborative environment.

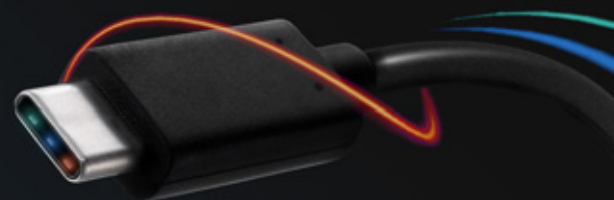


**USB-C is rapidly becoming the new connectivity standard** in meeting rooms and collaboration spaces.

**Lightware has been developing USB- C solutions** to provide seamless collaboration and content sharing for the overall meeting room experience. Beyond host switching between USB devices and peripherals, **extending USB was the next challenge** to solve.

Inspired by the ground-breaking success of the TAURUS UCX, Lightware has **expanded the TAURUS product family with TAURUS TPX and TPN** solutions offering the USB-C connectivity extension that removes the technology limitations. With these accomplishments, we offer technology that effectively **solves tasks and challenges of hybrid meeting spaces of all sizes**, from huddle rooms across medium-size meeting rooms up to feature-packed **boardrooms and large conference halls**.

THE POWER OF  
**USB-C**  
Collaboration • Control • Connectivity  
Convenience • Charging







**Taurus UCX, is a universal matrix switcher designed to tackle the common challenges of meeting rooms and collaboration environments.**

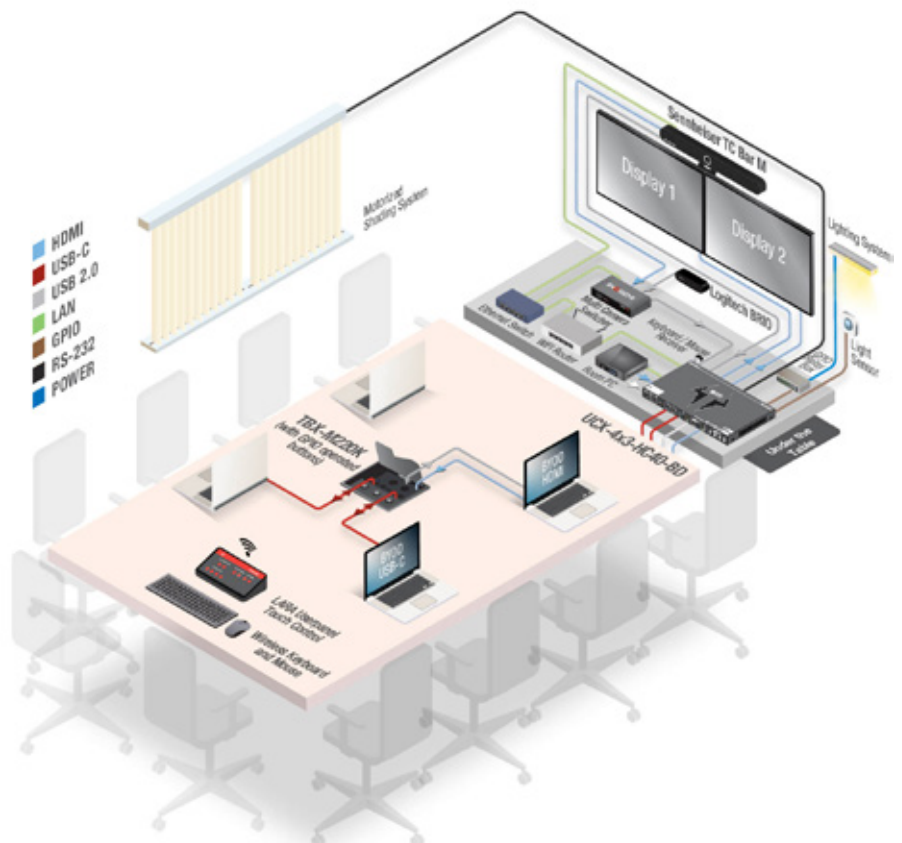
**With its incredible features and benefits, TAURUS UCX supports:**

- **Full BYOD and BYOM functionality.** Employees can use their laptops to join any UC platform and remain confident in their seamless operation
- **Leverage of USB room assets,** such as cameras, speakers, microphones, mice, and keyboards
- **Laptop charging** while presenting
- **Access to the internet and network**
- **Control of other room assets** such as drapes, lights, displays, and more



**TAURUS UCX Universal USB-C Matrix Switcher** combined with our **LARA (Lightware Advanced Room Automation)** software is a true game-changer for hybrid meeting spaces providing outstanding features and benefits, including:

- **Full HDMI 2.0** compatibility allowing **4K 60Hz 4:4:4** signals
- **USB-C Connectivity** and **Charging up to 100W**
- **USB 3.1 Gen1** connectivity and Host switching layer
- **Analog and DANTE/AES67** audio de-embedding
- Simplified and **Automated Room Utility Controls**
- Enhanced **Ethernet Security** Features

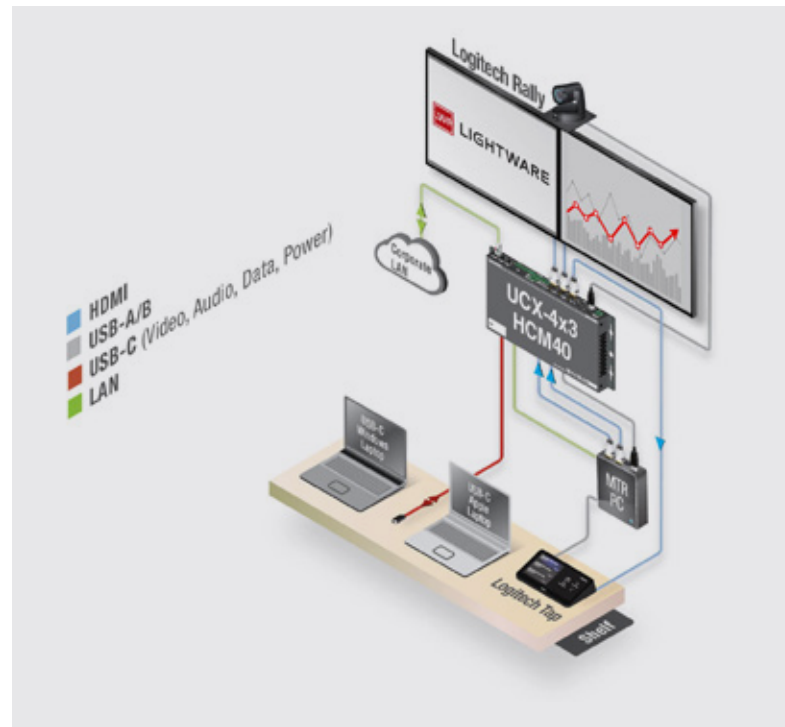


## New Taurus Version

The Taurus UCX product family's **UCX-4x3-HCM40** variant is powered by **dual screen extended desktop capability**. This unique feature allows cost-effective **content sharing from the USB-C source of a BYOD laptop on two 4K displays** using a single USB-C cable.

Another **UCX variant** also thrives when it comes to audio capabilities, offering **analog audio de-embedding features** as well as **support for DANTE/AES67 network connection**. The **UCX-4x3-HC40-BD** universal matrix switcher with the **Bidirectional DANTE feature** facilitates **two-way DANTE functions**, enabling its use in meeting rooms equipped with a DANTE microphone or other sources, all without the need for an external DSP or DANTE/USB dongle.

For medium-sized meeting rooms, **TAURUS's recently added feature of voice tracking** will become an effective solution for **supporting technical equality for remote participants**. The voice tracking will ensure perfect visibility by focusing the USB-featured camera on the speaker.



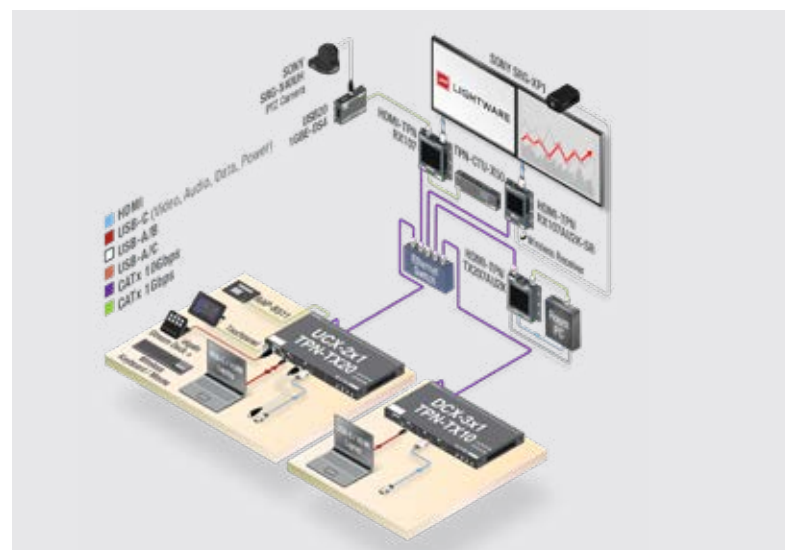
## Boardroom AV over IP solution with Networked UCX

Single Source to be Transmitted to Multiple Destinations via 10G Ethernet networks

The Taurus TPN is a convergence of Lightware's Taurus TPX universal extenders and the TPN series extenders. This powerful combination of Lightware technologies **elevates the USB-C capabilities of the Taurus into the AV-over-IP ecosystem**.



- UCX-TPN combines **Full-Featured USB-C and SDVoE**
- **HDMI2.0 4K@60 4:4:4** matrix switching **over 10G network**
- Independent, **full bandwidth USB 2.0 matrix switching layer, supporting multiple USB camera sources**
- **Automatized and user-controlled matrix switching** via various user interface devices
- **Seamless switching** for the best possible video switching experience







# TAURUS TPX

## Technology that offers Unrivalled Collaboration Experience in Boardrooms and Conference Halls

Extend USB-C Signals up to 100m

**UCX-4x3-TPX-TX20**



**HDMI-UCX-TPX-RX107**



### Extended Video Connectivity

seamless integration of USB 2.0 (High-speed 480Mbps) and HDMI 2.0 4K@60Hz 4:4:4 signals over distances of up to 100 meters



### Connectivity for multiple USB hosts

connect up to 8 peripherals and switch between different host devices (camera, speakerphone, touch monitor, etc.)



### BYOM Compatibility in Larger Spaces

USB-C connectivity for audio, video, control, data and charging laptop or mobile device up to 100W



### Easy Cabling and Cost-Saving

remote powering the RX unit over a single CAT cable, no additional power outlet and adapter needed

## Taurus TPX features

**Single CAT** connectivity **up to 100m**, with **Power delivery** from TX to RX, Video, USB2.0, Ethernet, OCS and Serial

- **USB-C** input connectivity for 4K Video, Audio, Data, and Power
- Multiple **USB 2.0** connectivity for **any type of USB devices**
- Independent **USB Host switching** layer for multiple USB hosts, **up to 8 devices**
- **Charging via USB-C** up to 100W (120W total)
- **Multiple Ethernet network configurations**
- SSH, SSL, HTTPS for **IT security**
- **Occupancy sensor (OCS)** connection at the RX device (with 24V power supply), GPIO control ports at TX device
- **Welcome Screen** for custom corporate logo and on-screen display warning messages
- **CEC** at the HDMI outputs
- **Audio** de-embedding
- Room device control via **Ethernet** (TCP/IP) or **Serial** (2x at TX device, 1x at RX device)
- Supports uncompressed **HDMI 4K** signal formats (4K UHD @60Hz RGB 4:4:4, up to 18 Gbps, 600 MHz pixel clock)
- Supporting **Lightware Advanced Room Automation (LARA)**



# LIGHTWARE FOR CORPORATE TRAINING CENTERS



**Manufacturing facilities**, customer support **call centers**, and other companies that require standardized professional skills benefit from **training facilities** that provide simulation and hands-on learning environments.

Simulation, training, and classroom spaces boost learning by engaging visual, auditory, and kinesthetic tools. These tools allow employees to better retain information, improve their overall performance, and help companies keep up their corporate standards among new employees as well as improve the performance of existing employees.

**Lightware's AV-over-IP technology delivers resilient, high-fidelity, scalable high-resolution signal solutions for a wide range of immersive training environments.**

With **VINX** on a 1G Ethernet network or **UBEX** over a 10G Ethernet network, learning spaces receive the following:



**Real-time control** and immediate instructor's feedback

- K+M features to switch command and control signals between the trainee's and instructor's stations with the delivery of the video content synchronized on the trainee and instructor screens
- Individual, team, and networked collective training
- **Enhanced level of control** through Lightware's open API
- **Analytics and remote diagnostics** for rapid troubleshooting

## 1G AV OVER IP – TRANSPORTING 4K@60 HZ 4:4:4 VIDEO AND USB 2.0



Lightware's new 1Gb AV-over-IP extension family GEMINI GVN where scalability, flexibility and rapid deployment are in focus. It boasts enhanced features like:



- Transmission of **4K@60Hz 4:4:4**
- **Seamless switching** (maximum, 1 frame per switch)
- USB 2.0 transmission enabling **keyboard and mouse functionality**, as well as access to **USB-camera**;
- **Comprehensive IT security**

Gemini GVN is a virtual matrix system, designed for seamless switching of audio, video, and USB transmission, featuring a delay of less than 1 frame.



## The keys to successful learning include:

- High-fidelity **immersive experiences**
- **Reliable and easy-to-use AV technology**
- The ability to actively monitor and moderate teams and individual students
- **Seamless integration** of both legacy and new solutions
- Comprehensive control, system management, and troubleshooting capabilities



In training and simulation environments built on **10G Ethernet networks**, **UBEX** Series of fiber optic extenders bring enhanced **immersive experience**, featuring **4K UHD @ 60Hz 4:4:4** over IP via 20 Gbps on 2 or 4 fibers. UBEX provides scaling and multistream, audio embedding and de-embedding. It also features:



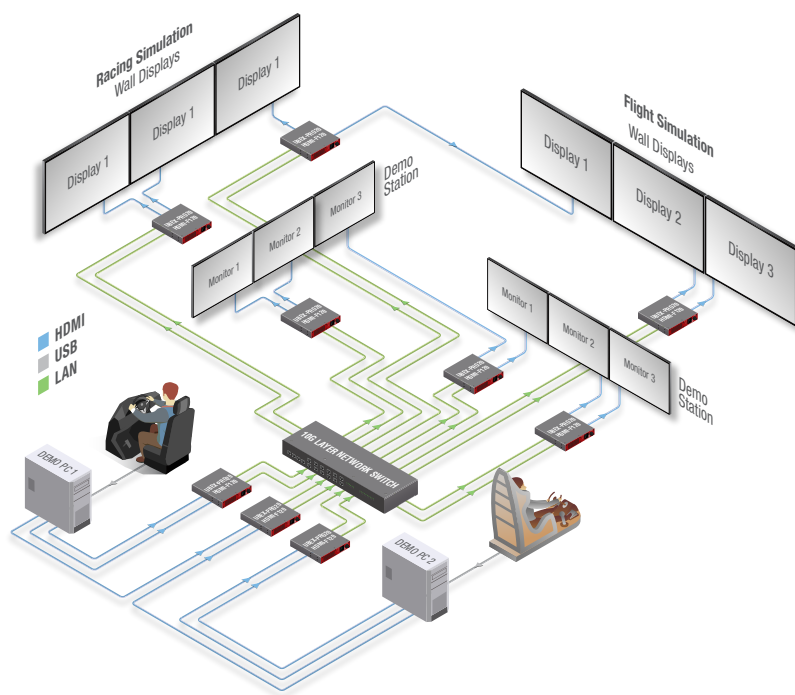
Seamless switching between sources



Great compatibility with off-the-shelf networking equipment



Dolby Atmos compliance



# LIGHTWARE FOR CORPORATE CONTROL ROOMS

Nowadays, we see an **increasing need for data management** across multiple industries. Apart from traditional goals such as security, corporations invest in their control rooms for two key reasons:

- **To improve their operational efficiency** and productivity with more data, IoT, and sensors
- **To monitor and control corporate firewalls** due to the increase in the hybrid workstyle in which employees operate from home via corporations' VPN networks.

Corporations have applied new approaches to presenting the data in their control rooms. They use **Unified Collaboration platforms and centralized information tools** to display the data from production lines and building facilities, such as electricity, HVAC, lifts, CCTV, and more.

## Control room operators require a robust ProAV technology that features:



### Real-time information

with zero latency, maximum resolution, and full-color authenticity



**Distributed information supply** within the control room environment



Redundancy to enable **24/7 operation** without any downtime or malfunctions



Devices with a **compact footprint and zero compromise** to features



**Low power** consumption

Driven by customer needs, **Lightware** offers **robust and resilient modular MX2M and fixed frame matrix switchers** ranging from 8x8 to 48x48 inputs/outputs. These products are field-tested and proven, they deliver **uncompressed 4K60 4:4:4 with zero latency over HDMI 2.0 and DisplayPort 1.2 connections operating 24/7**.

They offer a **great selection of hot-swappable input and output boards with a wide range of connections**, including HDMI, DP, optical, and CATx.

They **support comprehensive IT security standards**, including Lightweight Directory Access Protocol (LDAP), Active Directory integration, as well as widely implemented SSH encryption under the HTTPS protocol.

Lightware matrix switchers boast **reliable performance and exceptional ease of use**, they **feature a redundant power supply** to ensure cost efficiency and maximum uptime.



# MX2M

## Corporate control demands a variety of features, including:

- **Flexible architecture and KVM functionality** with seamless data sharing on one or multiple displays, with efficient AV-source management
- **Software-enabled remote management** and control
- **Analytics, diagnostics,** and troubleshooting for all system elements
- Enhanced **cyber security protection**



In response to these requirements, our future-proofed AV-over-IP signal management technology, known as UBEX, offers the following features:

- **Uncompressed 4K60Hz 4:4:4** signal extension
- Operation over 10Gb Ethernet networks with **2x10Gb links**
- **End-to-end redundancy**
- **Rapid rebooting**
- Instantaneous **seamless video** source switching
- **KVM functionality**
- **Seamless compatibility** with network equipment
- An **open API**
- Full **Analytics and diagnostics**
- **Minimum rack space** usage

**UBEX offers unique redundancy capabilities for extremely large-scale solutions. With dual network ports, each being utilized on a dedicated network switch, UBEX enables zero downtime operation.**

**Featuring an open API, UBEX enables any third-party control system to fully control Lightware products,** bringing peace of mind to the system integrator and IT staff, while the control room operators enjoy the functionality and power of a future-proofed AV-over-IP solution.

**Cybersecurity** is a critical component for control rooms. As a result, **Lightware is consistent in providing solutions featuring enhanced encryption and security by enabling HTTPS support, password protection over HTTP and HTTPS, and IEEE 802.1X support.**

In matrix mode, the **UBEX receiver supports multiviewer operation receiving 5 video streams from the network and creating two output videos from them.** The 1st output is the multiview built from 4 streams, and the 5th stream is delivered as the 2nd output.





# TECHNOLOGY THAT EXTENDS: LIGHTWARE'S AV-OVER-IP SOLUTIONS

**AV-over-IP** is widely acknowledged as the **best method of multimedia signal delivery** across large installations, such as **corporate digital signage, information centers, or retail venues**. AV-over-IP enables scalability, ease of installation within incumbent IT infrastructure, and a higher level of cyber security.

Being a pioneer of this technology, **Lightware offers solutions for both 1G and 10G Ethernet networks.**

Lightware's **VINX and UBEX** product families provide **audio-video and control signal transportation** in applications where **scalability, flexibility, and rapid deployment** are required.



**VINX's Smart Bandwidth Management** optimizes streaming and compression to match the transferred media and can **scale video up to 4K UHD @ 30Hz**.

## 1G NETWORK

The VINX Series **operates on 1G networks** and supports **point-to-point or unlimited architecture**.

## 10G NETWORK

The UBEX series **operates over 10G Ethernet networks** with 2x10G links.

**VINX is also ideal for building video walls** by offering a unique setup solution to simplify video wall configuration, batch gap and bezel adjustment. VINX is an excellent choice for delivering information across a **corporation's digital signage space**.

For establishments operating **on 10G networks**, Lightware offers the **UBEX fiber-optical system, capable of delivering uncompressed 4K60Hz 4:4:4 video with nearly zero latency and boasting maximum signal fidelity**. UBEX offers a 3-in-1 benefit as **it can replace three devices by operating as a receiver, a transmitter and a transceiver in one box**; which secures small footprint, efficient power consumption, and cost reduction.

# DISCOVER THE SMART TPS ROOM SOLUTION



YOUR COST-EFFECTIVE KEY TO EFFORTLESS MEETING  
ROOM AV SETUPS

Elevate your AV setup with Lightware's **HDBaseT-based TPS devices**. They are **point-to-point extenders** that **allow HDMI 1.4 HDMI signal management over a single CAT cable** with HDCP encryption and **advanced EDID management**.

Our TPS Extension offers a **Long Reach Mode**, which **extends the range to 150 meters while still supporting 1080p60**. It seamlessly extends video, audio, control commands, and Ethernet **over a single CAT cable**. The **built-in Event Manager** simplifies the process with automation for a hassle-free plug-and-play experience.

The TPS system offers ideal solution for **Bring Your Own Device (BYOD) setups**. It's **perfect for meeting rooms and boardrooms**, with a **focus on cost-efficiency, easy setup**, and user-friendly features.

## Key benefits:

- Exceptional cost-effectiveness
- Quick and easy installation
- Room automation with an Event Manager
- Supports HDMI 1.4 digital video and analog audio



# MX2



For large conference rooms that combine multiple and varied sources and outputs, Lightware offers our proven **standalone and modular matrix switchers of MX2 and MX2M Series respectively**. These matrix switchers provide uncompromised full **4K60Hz 4:4:4 resolution capability and support comprehensive IT security standards**, including Lightweight Directory Access Protocol (LDAP), and Active Directory integration. They also use the widely implemented SSH encryption under the HTTPS protocol.

The strategic benefits of MX2 and MX2M matrix switchers make them the best choice for AV professionals and allow them to build bespoke **future-proofed conference rooms**.



# TECHNOLOGY THAT INTEGRATES: **OPEN API OF LIGHTWARE TO BUILD** **HIGH-LEVEL INTEGRATION PROJECTS**



The Application Programming Interface (API) is a set of protocols, commands, functions, and objects that programmers use to create software or interact with external systems. **The open API of Lightware helps build highly integrated ProAV Solutions** – enabling enhanced functionality and flexibility across multiple brands.

**With our transparent approach to the API,** we offer solutions available for 3rd party and end-user access to analytics, diagnostics, and management across traditional AV and AV-over-IP products.

## TECHNOLOGY THAT CONTROLS AND AUTOMATES



Lightware offers a variety of **control options to manage and automate Lightware devices, USB-C featured room assets, and other room utilities,** with the options listed below:



- Lightware Advanced Room Automation (**LARA**) in our TAURUS and MMX2 switchers
- Lightware Room Automation Panels (**RAPs**) and **Room Automation Controller (RAC)**
- **Event Manager** room control which is built in our HDBaseT compatible TPS family and some other Lightware switchers
- Our **MiniWeb** Room Control configurator
- Our **Cisco Room Configuration Wizard (CRCW)**
- The recent addition to control pack is **open-source monitoring solution for Lightware devices on LAN**



With **LARA, which is available in TAURUS and MMX2 products,** you can easily control, manage, and automate USB-C featured assets and other room utilities. LARA provides the following key features:

- Simple and **convenient room automation** without the need for external processing or sophisticated programming.
- Seamless meetings as LARA ensures devices in the meeting space are ready to use at the onset of the session.
- **Cost-effective Green benefits** through LARA's management of automated room devices. LARA will shut down devices while they are not in use to allow companies to manage costs and reduce their environmental footprint.
- Ease of use with an ever-growing library of **pre-written driver modules** and the ability to configure and create new modules in JavaScript.





With our Room Automation Panels (RAP models), Lightware maximizes the functionality of meeting spaces and facilitates their operation on-site. RAPs can operate independently or can be integrated into the central building management solution.

Lightware's RAP products are a combination of a processor and a keypad in a single compact form factor. The RAPs provide the following features:

- **Easy room control** enabled by our built-in Event Manager
- **11 backlit programmable buttons** and a light management rotary dial
- Real-time clock with **network time protocol for scheduling events**, such as powering up a room prior to a meeting
- GPIO for use with occupancy sensors, motorized screens, shades, and more
- **Two Ethernet connectors** for receiving/sending PoE remote power
- **1 × RS-232 port for peripheral device control**
- Lightware's Open API
- Acceptance of commands from mobile devices over TCP/IP

The RAP family **features a web server** that allows simplified **operation from mobile devices** through a browser. The passwords and user validation are local administration functions that enable startup scenarios and provide access to the local Wi-Fi network.



**Event Manager** is a built-in feature in the **HDBaseT-compatible TPS Series and selected Lightware matrix switchers**.

**Event Manager is available with Lightware's downloadable Device Control software.** Device Control supports the **management of room peripherals**, such as shades and drapes, HVAC systems, lights, and more, which can be triggered, for example, by a change on the input side of the Lightware device. Event Manager is continuously evolving to include more features and offer an improved user experience via firmware upgrades.

The **MiniWeb Room Control configurator software application** is compatible with multiple Lightware devices. It enables corporations to enhance their collaboration spaces by **controlling peripherals and utilities directly from their mobile devices or web browser**. It is highly intuitive, offering a user-friendly interface. MininWeb requires zero programming skills with a complete setup requiring only a few steps with an HTML link or a QR code.

Our **Cisco online configurator** allows Cisco Room integration with Lightware devices to **power the meeting space with** enhanced collaboration, presentation, and **control via Cisco Touch 10 or Room Navigator**. Available on the Lightware.com website, **Cisco Room Configuration Wizard** is an intuitive tool, that enables rapid system configuration and deployment.



# MONITORING WEBTOOL












For corporate environments featuring multiple meeting spaces with hundreds of room devices expected to support a 100% uptime, as well as secure effective room management and control, Lightware offers an Open-Source Monitoring Solution for Lightware devices on LAN.

## **The Monitoring Webtool can significantly improve the AV team efficiency in supporting AV technology's health and operation.**

It is a web-based solution for controlling the properties of Lightware devices on a local network. Its open-source implementation can seamlessly be copied and deployed locally demanding no complicated installation. In a configuration file, AV/IT specialists of the venue can quickly and easily specify which Lightware devices and which LW3 properties are to be monitored.

- Simultaneous monitoring of multiple devices and their properties
- Open-source and therefore customizable implementation
- Highly and easily configurable
- Free of charge
- MIT licensed
- LAN scoped

Building	Room	IP Address	Name	Serial Number	FW Package	HW Ver.	Temperature
A1	Meeting Room 1	 172.24.5.11	MMX4x2-HDMI	00004429	1.6.4b2 r89	V11_AAA0	54 C
A1	Meeting Room 2	 172.24.5.17	VINX-120-HDMI-ENC	E00010	v3.5.1b1 r1	N/A	N/A
A1	Meeting Room 3	 172.24.5.18	VINX-110-HDMI-DEC	E80002	v3.5.1b1 r1	N/A	N/A
A1	Meeting Room 4	 172.24.5.19	UMX-TPS-TX140-Plus	00006074	1.5.1b2 r69	V11_GAX0	35 C
A1	Control Room 1	 172.24.5.23	MMX8x4-HT400MC	00005555	1.4.3b1 r2	V10_BAA0	53 C
B1	Meeting Room 11	 172.24.5.25	UMX-HDMI-140-Plus	00005023	1.3.1b2 r55	V11_CAA0	29 C
B1	Meeting Room 12	 172.24.5.26	HDMI-TPS-RX110AY-Plus	CA309359	1.5.0b3 r65	V13_JAA0	36 C
B1	Meeting Room 13	 172.24.5.27	SW4-TPS-TX240-Plus	00006334	1.3.6b2 r54	V12_KAA0	42 C
B1	Control Room 2	 172.24.5.29	MMX8x8-HDMI-4K-A	00005487	1.4.3b1 r2	V10_BAA0	51 C

# DISCOVER OUR WIDE RANGE OF CABLES



## The Power of USB-C

Lightware offers a **wide range of various USB-C cable lengths from 1 to 5 meters**, including cables with Microcoax technology. For going the distance, we offer **8- and 10-meter-long USB-C extender Active Optical Cables (AOC)** bring literally more flexibility and durability into AV projects.

## Increasing the Power

Increased power delivery to your connected device: we have a new 2-meter-long, **Full Featured cable which is capable to deliver 100W powering**. But that's just the beginning. This year, we're taking it up a notch with **cables ranging from 1 to 3 meters, capable of delivering a powerful 240W charge**. Not to mention, these upgraded cables come with an **added feature – a built-in LED power indicator**.



## Going the Extra Mile

**10m and 16m active repeater cables** provide incredible flexibility and reliability for project design by allowing users to **extend USB signals over longer distances**, making these versions particularly suitable for larger collaboration spaces.

## HDMI Signal Transmission

**Lightware's HDMI 2.0 cables** are designed for unparalleled performance, **with bandwidth up to 18Gbps**. The cables support resolutions up to **4096x2160@60Hz at RGB 4:4:4**, ensuring crystal-clear digital images. The premium quality cables are available in lengths **from 1 meter to 50 meters cater to a wide range of needs**. 1-2-3 and 5 meter lengths are easy to handle due to their flexibility and are recommended for bridging smaller distances.



## Versatile Cable Options in 2024

We're thrilled to unveil an extended array of cables, enriching our product offerings to cater to a broader spectrum of customer needs. Diversifying the connection possibilities, **we're enhancing the versatility of the Taurus UCX USB-C port to support various sinks. Featuring 3-meter USB-C cables with HDMI, DisplayPort, and DVI connections, providing extended options for seamless connectivity for your BYOD device.**

Additionally, acknowledging the evolving landscape of peripherals, we're proud to introduce **USB-A to USB-C cables** in 2 and 3-meter lengths. This expansion facilitates the connection of cutting-edge devices, such as cameras, to the Taurus UCX.



# PARTNERSHIPS

LIGHTWARE IS CONSISTENT IN ENGAGING AND INVESTING IN STRATEGIC PARTNERSHIPS WITH AV-IT PROVIDERS TO SUPPORT UNIQUE FUNCTIONALITY FOR END-USERS.

utelogy

**Under the Utelligence Program for AV/UC Device Standardization, Lightware leverages the powerful Utelogy software tools of Utelogy Corporation for remote monitoring and management** of the AV devices, including TAURUS UCX Series, USB peripheral switching products, as well as Cisco switching solutions, and Lightware's 1Gb AV-over-IP VINX and GVN Series. Jointly, Utelogy and Lightware provide users with a comprehensive overview and control of an entire campus.



**Having joined D-Tools' Product Library, Lightware has tremendously facilitated AV-IT project designing task for integrators.** D-Tools' System Integrator software boasts a library of more than 600 SKUs, now including Lightware's technology! D-Tools' application ideally integrates with Microsoft Visio and Autodesk AutoCAD, allowing detailed engineering drawings linked to project proposals. With D-Tools, users also obtain bills of materials that streamline price verification process with the regional Lightware offices.



**In joint aspiration for creating enhanced meeting room experience, Barco and Lightware offer a seamless and feature-rich solution for hybrid collaboration in small to large meeting spaces and boardrooms.** Barco ClickShare CX-Series technology and Lightware's TAURUS UCX switcher turn the meeting space into a unified communication powerhouse by harnessing all the benefits offered by the USB-C technology. Together, we enable maximum flexibility and functionality of wireless and wired hybrid meetings.



**Sennheiser and Lightware have joint efforts to offer a proven and tested solution that provides an improved experience for remote users.** TAURUS UCX with LARA firmware process information from Sennheiser microphones and PTZ cameras to track and focus on speakers in the room and so enhance visual information for distant participants.



**Yamaha and Lightware have entered a partnership to create an advanced audio-visual solution for hybrid meetings.** The solution engages Yamaha's HVAD (Human Voice Activity Detection) algorithm available in RM-CG ceiling microphones and leverages from Lightware's multi-award winning switching, extension and room automation technology provided by TAURUS UCX/TPX and its room automation firmware LARA. Together, we have created a customizable solution based on the top-notch AV technology for the ultimate visual and audio experience of remote participants.

# CISCO SOLUTIONS PLUS PARTNER

## DUAL SCREEN SOLUTION

Lightware has simplified the process of expanding, extending, and controlling Cisco Room devices by offering a pre-configured appliance.



Solution Partner

## With Lightware, learning space users can:

- **expand the number of inputs** (dedicated room PC, laptop connections, media players)
- **expand the system outputs** (including large LED/LCD/projection front wall screens and a display of the instructor's digital lectern),
- **extend the connectivity** over longer distances avoiding HDMI-technology limitations,
- and **empower the user to** natively **control** the entire solution **via the Cisco Touch10 and Cisco Room Navigator.**

Lightware adds intuitive controls to the Cisco Touch10 and Cisco Room Navigator and enables a consistent user experience to deliver dynamic controls in the same way in every classroom sparing the instructor's technology frustrations and contributing to the effectiveness of learning.

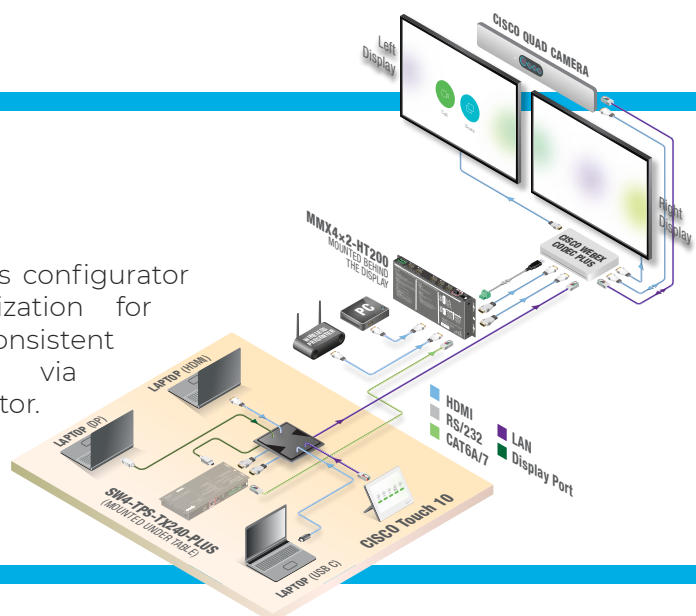
Lightware and Cisco have created configured packages designed for small to large meeting spaces and learning environments. [lightware.com/cisco](http://lightware.com/cisco)

Additionally, Lightware has created bring-your-own-device (BYOD) packages to add camera sharing capabilities.

## Cisco Room Configuration Wizard

The school's AV-IT engineers can use Lightware's configurator software that simplifies classroom customization for many rooms at scale, while providing a consistent workflow for instructors and students via Cisco Touch10 and Cisco Room Navigator.

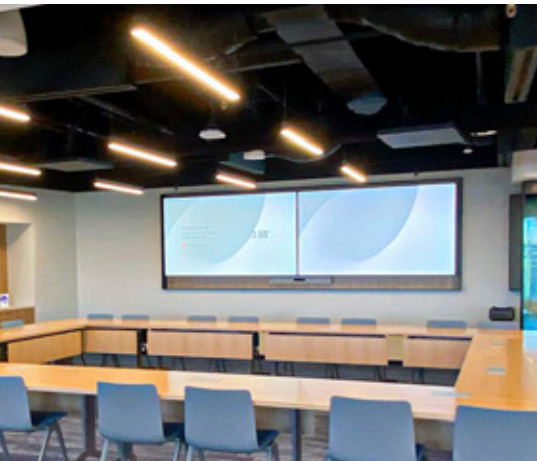
[lightware.com/cisco/room-configurator](http://lightware.com/cisco/room-configurator)



## Case Studies

# NATIONWIDE HEALTH INSURANCE PROVIDER STANDARDIZES LIGHTWARE'S TAURUS UCX

**RoomReady selected Taurus UCX** to provide a simplified user experience with enhanced technology features across hundreds of meeting rooms nationwide



Founded in 1929, the American insurance provider was established to serve more than 114.5 million people with medical, pharmaceutical, dental, behavioral health, long-term care and disability plans. More than 1.7 million doctors and hospitals contract with the company to offer a personalized approach to healthcare based on the needs of the communities where their members live and work.

**RoomReady, a leading AV integrator, was selected to complete a nationwide integration for the American insurance provider.**

**"We recently completed a large, nationwide installation for a large insurance provider," said Izzi Demara, marketing coordinator for RoomReady. "We integrated technology in a wide range of spaces for this client, including extra-large conference rooms, huddle spaces, training rooms and medium-sized conference rooms. We needed to create a standardized solution to simplify the user experience."**

**RoomReady standardized Lightware's Taurus UCX, a universal matrix switcher** that enables users to share their content easily, switch hosts and control their meeting room easily and intuitively. **Taurus UCX offers USB-C connectivity** for simplified audio, video, power and control signal

handling via one cable. **The USB-C ports on Taurus UCX devices** are where the user plugs into the system. **Users can transfer data, video and audio signals, and the Taurus UCX will charge the connected device.**

**"Initially, we created pilot rooms that enabled the client to test out the functionality before we installed the technology in a thousand rooms nationally," noted Demara. We presented Lightware as the best solution for this application and, at that point, shared the solution with the client to allow them to test the integration in their environment for two months.** The solution has been a great fit for the client. As a result, **we've completed 300+ rooms in over 50 locations with a standardized solution.**

Demara added, **"We selected Taurus UCX because of the simplicity of installation and user experience.** Taurus UCX streamlines USB-C to HDMI connectivity. **It's incredibly helpful for BYOM applications.** Additionally, an important feature for the end user is **Taurus UCX's charging functionality.** It charges the device during BYOM. With Lightware's Taurus UCX, the client can charge their device simultaneously while presenting.

**Lightware's Taurus UCX features an open environment protocol, where every bit of data is openly available for higher level management, control and monitoring systems,** Taurus UCX allows **seamless connectivity** across various video conferencing applications, **including Cisco Webex, Microsoft Teams, Zoom and others.**

**"The client was originally a Cisco house. They recently switched to Microsoft Teams," explained Demara. "Lightware has been very helpful throughout the switch because the technology integrates seamlessly with Teams.** Additionally, the client has an advanced BYOM solution with Cisco Webex in their new New York facility. **They can connect via Lightware to easily access Microsoft Teams. Lightware has simplified access and connectivity** throughout the client's meeting facilities.

**Taurus UCX can automate room assets** like lights and shades without the complexity of using another control platform. **It can be controlled via button panels, web browsers or by connecting a source.** Together with the auto-switching and room control capabilities, Taurus UCX creates a simplified collaboration solution.





# OFFICE OF RED BULL, THAILAND, UNLOCKS POWER OF TAURUS UCX TO ENHANCE CORPORATE PRODUCTIVITY



**The head office of Red Bull in Thailand refreshed its meeting rooms' technology to place TAURUS UCX universal switcher to benefit from the USB-C connectivity across its workspace.**

At the end of 2022, Atkrist Co., Ltd., the AV consultant of T.C. Pharmaceutical Industries Co., Ltd. (Red Bull, Thailand), approached several AV System integrators including Crossroads Corporation Co., Ltd. for bidding to provide an AV system in TCP's head office building. Crossroads Corporation Co., Ltd won the project initially based on the consultant's design.

After the project started, the customer decided to add **Lenovo's ThinkSmart Hub Gen 2 for Microsoft Teams Rooms to every meeting space in the building.** They also wanted BYOD functionality to provide connectivity for laptops as well as **Barco's Clickshare technology to enable wireless conferencing.** That said, the customer via the consultant approached Crossroads Corporation for assistance in developing a meeting room solution that would provide seamless connectivity with minimum user involvement.

Previously, Red Bull's employees struggled with laptops that would not connect. Their overall meeting experience was rather discouraging and unproductive. **Red Bull needed a simple plug-and-play reliable solution for their Zoom and Teams hybrid meetings.**

Developing projects that ideally fit customers' needs is a part of Crossroads' credo. They offered a solution that ensured a seamless user experience and unbeatable functionality based on the USB-C technology provided by Lightware Visual Engineering.

**With Lightware's TAURUS UCX-2x2-HC30 switcher placed in 5 meeting rooms accommodating 10 people each, the customer received USB-C empowered seamless connectivity, instantaneous host switching, the use of room peripherals, charging, and control abilities.** In fact, it was particularly with Lightware's technology, that the integrator had introduced the functionality of the room peripherals, such as video bars and ceiling microphones into the advanced meeting room spaces of Red Bull's office. Initially, the customer was ready to sacrifice functionality for the sake of secured usability.

Crossroads provided seamless integration of Lightware's switcher with **Lenovo's ThinkSmart Hub and, through TAURUS UCX's open API, with Barco's ClickShare** to leverage the benefits of the USB-C connectivity across meeting spaces of Red Bull's headquarters. With Lightware, the solution secures instantaneous host-switching and the use of in-room peripherals, which are essential functionality for hybrid meetings. **With their meeting rooms refreshed, Red Bull's employees stay confident that their BYOD laptops, whatever brands they are, will connect,** either via HDMI or USB-C interface on TAURUS and they will have seamless access to room cameras and microphones.

These 5 meeting rooms were constructed with an electricity supply automated by time relays installed in each room. As soon as the electricity is on in the morning, the

Lenovo device automatically sets on enabling meetings' launch without any user involvement. TAURUS UCX identifies either Lenovo or BYOD-device on its input side and turns the peripherals on.

As one of the leaders of the global economy, T.C. Pharmaceutical Industries Co., Ltd provides world-leading solutions for their team. **With TAURUS UCX, its employees are able to enhance their personal meeting efficiency, stay engaged, and contribute to corporate productivity.** Red Bull employees were quick to appreciate the benefits that Lightware's TAURUS UCX had brought into their workplace. For Crossroads, their satisfaction is essential and most rewarding.

Currently, the integrator is developing new projects for Red Bull, engaging Lightware's uncompromised technology. This time, based on the recent successful debut with TAURUS UCX, **Mr. Chanan Koonlaboon, Managing Director of Crossroads, plans to leverage the full array of features of Lightware's universal switcher, which in particular, apart from the best in the industry USB-C connectivity, also include room control and automation, enabled by its firmware Lightware Advanced Room Automation (LARA), as well as remote monitoring, batch-upgrading, and many more.**

Mr. Koonlaboon enjoyed the cooperative approach of Lightware in the first project for Red Bull and is confidently planning the continuation of this partnership.



**Read more case studies here:**

[https://lightware.com/news/category/case\\_studies](https://lightware.com/news/category/case_studies)



## WE ARE COMMITTED TO ENVIRONMENTAL SUSTAINABILITY

In our offices, we **minimize paper waste** by eliminating unnecessary printing and **using recycled paper**. We are conscious with our office lighting to **reduce power consumption**. We **use eco-friendly cleaning materials and apply smart waste management** routines to support recycling.

With our suite of **Room Automation solutions**, we promote lower room power consumption by being able to turn off connected products and systems.

We regularly participate in **corporate social responsibility (CSR) events** such as the annual Let's Clean Up Europe initiative.

- We go to great lengths to **prevent and minimize pollution from manufacturing, packaging**, and all other daily operations.
- We **minimize our carbon transportation footprint** by keeping as much design and manufacturing as possible in-house.
- We **simplify our packaging design** to reduce the use of chemical-based printing.
- We consciously provide only necessary accessories to **reduce the use of materials** that would go to waste.
- We **apply a smart packaging layout** to minimize packaging materials that end up in the trash.
- We **consolidate our shipments** to reduce our environmental impact from transportation.



**Learn more about our green policy:**  
[lightware.com/about-us/green-policy](https://lightware.com/about-us/green-policy)



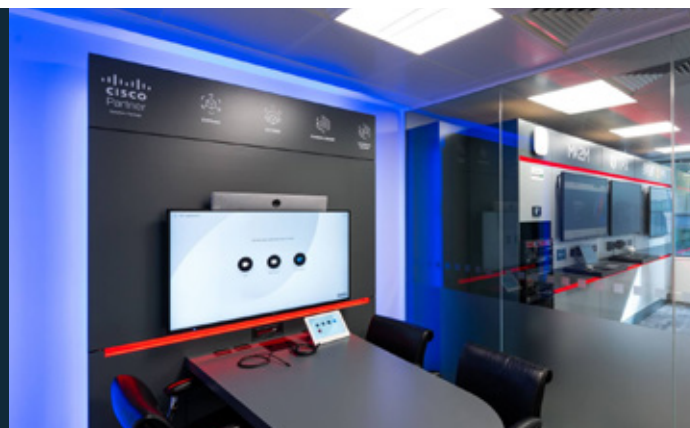


# WE STAND BEHIND OUR PRODUCTS WITH OUR EXPERTISE AND COMPREHENSIVE SUPPORT

Lightware Visual Engineering is continuously **strengthening its presence around the globe** and providing comprehensive technical support and training for our partners and end users:

- We are now present in **more than 30 countries**.
- **Our AV Integration Team is available to assist in developing the optimum project for your unique requirements.** You can reach our AV Integration team at [av-projects@lightware.com](mailto:av-projects@lightware.com)

Our **Experience and Discovery Centers** are located in prominent locations in **Paris, London, Las Vegas and Sydney**. They are available for our partners to receive demonstrations of Lightware's award-winning products and solutions. **In 2024, more experience centers will open** their doors to welcome visitors **in Europe and Middle East**.



**Discover Lightware Academy**, our new training platform, master the art of the AV market and stay ahead of the competition. Choose the course that matches your level and start your learning journey today.



Learn More:  
[academy.lightware.com](https://academy.lightware.com)

**We treasure our partnerships and strong relationships and we aspire for long-term successful cooperation with you.**  
**This is how we stay innovative and successful.**



**Contact us!**



[enterprise@lightware.com](mailto:enterprise@lightware.com)  
[www.lightware.com/markets/corporate](http://www.lightware.com/markets/corporate)