We are Lightware Visual Engineering, an AV equipment manufacturer and high-fidelity signal management specialist headquartered in Budapest, Hungary. We have been designing, developing and delivering devices and technologies since 1998. Our solutions tackle the challenges AV professionals face in the fast-paced world of digital integration.

Our mission is to deliver reliable and versatile, yet simple and consistent AV solutions that make life easier and ensures that technology is not an obstacle, but instead a powerful tool.

The Lightware Advantages for AV System Designers and Integrators

Lightware products and technologies offer unique benefits for AV professionals, helping at every step of the process from system design to installation, to configuration and beyond.

There are three main features that make Lightware products the best choice for system integrators, consultants and end-users: analytics, diagnostics and the open API.

Analytics

Lightware products have a built-in video frame rate analyser, a tool unmatched and unrivalled in our industry. Users can receive constant feedback about the exact pixel count and clock frequency in real time.

The possibility for constantly monitoring this data bring peace of mind to critical AV operations and the transparent data that Lightware’s devices provide about the system status can be used for higher-level integration.

Open-API

Every bit of data in a system powered by Lightware, all the way down to the device level, is openly available for higher level management and monitoring systems for troubleshooting and diagnostic purposes.

Lightware has a proven track record of seamlessly and effectively working together with third party systems to create a powerful combination for users and unlock the possibilities in any AV operation.

Diagnostics

The cable diagnostics tool can monitor the status of each and every cable in the system and provide real-time feedback for the operators including the exact transmission error rate between transmitter and receiver. Integrators and technicians no longer has to go and physically check if their cables are securely connected, having this information readily available on their screen saves tremendous amount of time.

Present Across 30+ Countries

Our products are available in more than 30 countries worldwide through our 18 offices and 14 distributors.

Serving the AV World Since 1998

All of our products are manufactured in the EU in our headquarters in Budapest, Hungary.

Dedicated Team of 250+ Professionals

We listen to the people who are the driving force of the AV industry – engineers, system designers, integrators and AV experts.

Out of a natural passion for cutting-edge AV technology, Our CEO, Gergely Vida, started Lightware in 1998 in a spare room of a downtown apartment.

Today, he still leads Lightware’s innovation solutions and is in the forefront of product development to ensure the company repeatedly surprises our industry and exceeds the expectations of our partners.

”New technologies must support people’s lives seamlessly and invisibly, just like air and water.”

Gergely Vida, CEO
**Share & Power Your Device**

Just bring your own device, connect it easily and start sharing your desktop with the room right away whilst also charging your laptop in one go. The Taurus UCX offers USB-C connectivity for simplified handling of audio, video, power and control signals via one single cable.

The two USB-C ports on the Taurus UCX devices can not only transfer data and video/audio signals, but can also provide charging with 60W on each port.

**Uncompressed Signals**

Pixel Accurate Delivery

UBEX is capable to manage uncompressed 4K60 4:4:4 signals for the ultimate visual experiences.

**Versatile Hardware**

3in1 - Freedom in System Design

UBEX can replace 3 devices by essentially being a receiver, a transmitter and a transceiver in one box.

**Quick Failover**

The Show Must Go on

Wide range of redundancy features ensure complete peace of mind during critical operations.

**Ultra-low Latency**

Real-Time Experience

A 0.01 ms latency that is undetectable for the human eye guarantees lag-free extension.

**UBEX**

Lightware’s UBEX is a fiber-optical, scaling AV-Over-IP system allowing uncompressed 4K60 4:4:4 signal extension with ultra-low latency multistreaming on 10G Ethernet network with dual 10G links.

UBEX brings a vast difference into AV operations through a powerful combination of capabilities unmatched by any other device on the market.

**F series**

4K UHD @ 60Hz 4:4:4 uncompressed AV over IP via 20 Gbps on two (or four) fibers; dual channel 4K transmitter, receiver or transceiver with scaling and multi stream, audio embedder and de-embedder function, RS-232 interface, Infrared interface.

Lightware’s Taurus UCX is a universal switcher with the potential to transform any meeting space or huddle room into a unified communication powerhouse by unlocking all the benefits offered by USB-C technology.

This unique device is a true champion of collaboration applications, allowing users to share their content, switch hosts and control their meeting room easily and intuitively.

One device. Limitless collaboration. Taurus UCX.

The Taurus UCX is a Unified Communications platform that allows you to Conveniently Collaborate by simply connecting your own device via a single USB-C cable to share your content and control the meeting room easier than ever before.

It’s time to forget about the frustration and the delays caused by confusing amount of tangled cables and dozens of plugs or stubborn webcams that somehow ‘never want to work’.

The new Taurus UCX is a Unified Communications platform that allows you to Conveniently Collaborate by simply connecting your own device via a single USB-C cable to share your content and control the meeting room easier than ever before.

**THE POWER OF USB-C**

Collaboration • Control • Connectivity • Convenience • Charging

4K UHD @ 60Hz 4:4:4 uncompressed AV over IP via 20 Gbps designed for rental and professional users; dual channel 4K transmitter, receiver or transceiver with scaling and multi stream, including two 10G SFP+ multimode fiber modules with two Neutrik OpticalCON DUO connectors and EtherCON control port.

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The Taurus UCX combines video, audio, control and Ethernet signals into one single cable, and together with the autoswitching and intuitive room control capabilities it brings you the experience of the future. Today.

**Control & Monitor**

Access and control room facilities such as lights and shades without the hassle of using multiple controlling platform, as the Taurus UCX allows you to get everything done simply via the native control panel or touchpad that is already used for the video conference system.

The CEC (Consumer Electronic Control) support allows users to control sink devices (e.g. displays, projectors etc) on various end-points through HDMI connectivity, while the built-in web LDC makes it possible to easily configure the device through a web browser.

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**Switch & Utilise**

Take advantage of all the built-in assets of the room from the USB webcam to microphones and speaker systems and use them directly with your laptop or other device.

The Taurus UCX provides the possibility for meeting participants and collaborating teams to use their choice of video conferencing platforms while utilizing the USB assets in the room.

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**THE POWER OF USB-C**

Collaboration • Control • Connectivity • Convenience • Charging
The VINX series devices were designed for 1G Ethernet networks and can also operate in point-to-point configuration with diverse application possibilities. We recommend VINX for applications where scalability, flexibility and rapid deployment are in focus. They are simple to install and to operate, and have numerous built-in services that most other manufacturers only provide for an extra cost.

VinX can be expanded from a single point-to-point extension to virtually unlimited endpoints.

Advanced EDID Management
The extenders all major EDID resolutions and are capable to scale video up to 4K30.

VINX has an option for password-protected login.

End-users and integrators are required to use a password to configure their devices, which provides protection against unauthorized access.

Unlimited Endpoints
VinX can be expanded from a single point-to-point extension to virtually unlimited endpoints.

Built-in USB 2.0 ports
The built-in USB 2.0 ports support KVM functionality and can also handle USB mass storage.

HDCP Compliant
The units are HDCP compliant with streaming bitrate variable between 10Mbps and 800Mbps.

Smart Bandwidth Management
Variable Bitrate, Video and Graphical Modes
The built-in, selectable Video and Graphic Modes optimize streaming and compression to match the transferred media.

The Variable Bitrate feature provides an even more accurate adjustment option for smart bandwidth management.

Ethernet Control AV equipment through Gigabit Ethernet, RS-232 or CEC

EDID Management
Stores one EDID or mirrors the EDID of the display on the transmitter’s HDMI input

Ultra-low Latency
Less than 0.1 ms signal latency for real-time visual experience

Audio Transmitter
Output on the transmitter side to send audio signal directly to local audio systems

The widely-recognized Dolby Vision technology is synonymous with crystal-clear picture quality. In order to accurately deliver and display these high-dynamic-range (HDR) content, the TPX series supports the Dolby Vision standard.

The Most Cost-Effective Solution
As many as four TPX extenders can fit into one standard rack unit, making these devices more cost-effective. Passive-cooling not only ensures less noise, but results in lower energy consumption for long-term benefits.
Cisco Integration

Add Simple and Consistent Controls to Your Touch 10 / Navigator Panel

It’s time to empower the Touch 10 and the Room Navigator by making the control of the meeting space simple, intuitive and consistent with dedicated Lightware bundles.

Lightware’s technology allows users to unlock the full potential of their Webex Room Devices. Easily expand the number of available sources, extend signals without compromise and utilise your room kit as an independent USB webcam.

The Power of USB-C in AV Applications

USB-C technology was designed to make signal transmission more convenient and provide users with unprecedented speeds, easy connectivity, and useful features.

However, not every USB-C cable is created equal and come with the same range of benefits, and the same applies for different USB-compatible devices – such as webcam, audio systems and everything in-between.

Although it is widely overlooked, choosing a certain cable can mean the difference between seamless operation and unnecessary hassle.

By using Lightware’s tried-and-tested USB-C cables, users can bring out the full potential of their USB-C devices.

Lightware Bundles

- **Expand**: Access additional HDMI sources and control them directly with your Touch 10 / Navigator.
- **Extend**: Extend high resolution video signals to distances beyond the standard reach of HDMI cables.
- **Camera Share**: Utilize the room’s USB webcam and other USB assets for enhanced collaboration.
- **Divisible Rooms**: Divide or merge meeting spaces and control the sources and displays across both rooms.

Lightware offers a wide range of various lengths from 1 to 5 meters, including active, Full Feature USB-C cables as well as editions that feature Microcoax technology.

Lightware’s cables have also been vigorously tested to ensure they work seamlessly with the Taurus UCX universal switcher and make possible for users to utilise all the benefits offered by USB-C technology.

**Lightware Bundles**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>CAB-USBC-T100A</td>
<td>1 m long USB Full-Featured Type-C cable for USB 3.1 Gen2</td>
</tr>
<tr>
<td>CAB-USBC-T200A</td>
<td>2 m long USB Full-Featured Type-C cable for USB 3.1 Gen1</td>
</tr>
<tr>
<td>CAB-USBC-T300A</td>
<td>3 m long USB Full-Featured Type-C cable for USB 3.1 Gen1</td>
</tr>
<tr>
<td>CAB-USBC-T400B</td>
<td>4 m USB Full-Featured Type-C cable for USB 3.1 Gen1 &amp; 4K60 Video Microcoax technology</td>
</tr>
<tr>
<td>CAB-USBC-T500B</td>
<td>5 m USB Full-Featured Type-C cable for USB 3.1 Gen1 &amp; 4K60 Video Microcoax technology</td>
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Lightware’s devices have a proven track record of powering a wide-range of AV applications across various industries.

Take a closer look at these different operations and learn more about how Lightware’s technology tackles the unique challenges of these specific AV environments.

**Education & Training**
Lightware offers intuitive and automated room control solutions for educational institutions allowing students and educators to focus on the task at hand.

**Vertical Markets**
**Industries and Applications**
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Contact us!