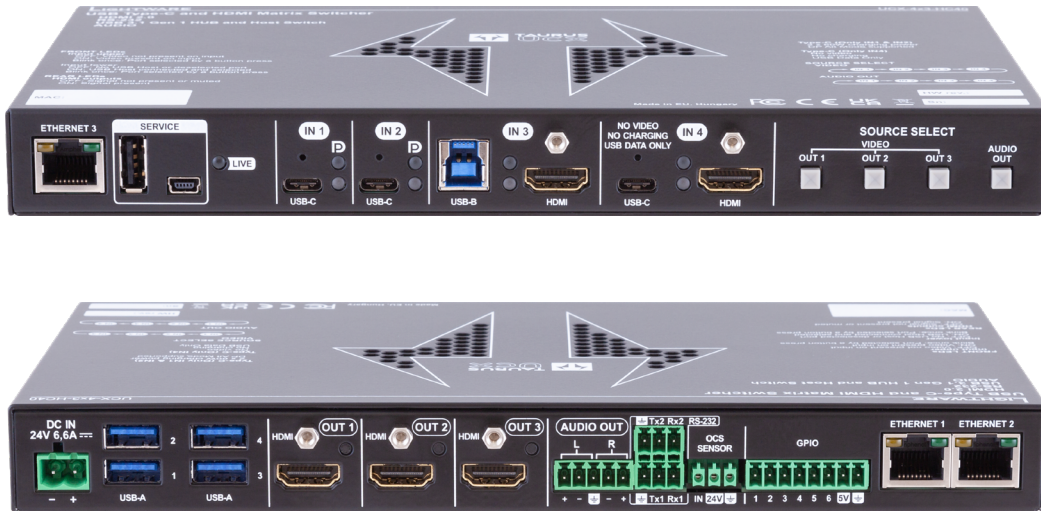


## Universal Matrix Switcher with HDMI 2.0 and USB-C Connectivity



### Bring Collaboration Spaces to the Next Level

The **UCX-4x3-HC40 universal matrix switcher** enhances and extends the possibilities of a meeting room and allows meeting participants to easily use their own devices such as laptops, and preferred video conference platforms while also utilizing the available assets of the meeting space, just like the HDMI displays, room cameras, and other USB peripherals.

### Exploit the Possibilities of USB connectivity

The device utilizes **USB-C connectivity** for a simplified transmission of 4K video, audio, control signals, and power, and allows data speeds of up to **5 Gbps under the USB 3.1 Gen1** and allows video resolution capabilities up to **4K@60Hz at 4:4:4**. Users who connect their laptop or other mobile device via USB-C can also enjoy charging up to 100W (120W total), thus eliminating the need to look for a wall plug and to avoid sudden interruption of meetings.

Devices such as laptops that do not come with USB-C connectivity can also be connected quickly and easily, using a combination of **HDMI 2.0 and USB 3.1 Gen1** connections without compromising on either video resolution or data speeds.

The device is designed to be a centerpiece of any collaboration space, and can be connected to **four USB peripherals** via USB-A type connectors.

The device allows up to four hosts to be connected to the system, and also ensures quick and easy switching between these hosts, making this universal matrix switcher a perfect fit for smaller meeting areas, involving 6-12 people.

### Additional Features and Capabilities

**Automated room control features** are also included through **GPIO ports**, besides **RS-232** and occupancy sensor connectivity, and the switcher also thrives when it comes to **audio capabilities**, offering **analog audio de-embedding**.

**Security** is always a key concern in the corporate world, therefore our engineers ensured that the **UCX-4x3-HC40** adheres to the strictest security standards.

**Secure corporate Ethernet interfaces** ensure secure device control and configuration under the SSH, SSL, and HTTPS standards, whilst the device can also be securely connected to a closed network of room control devices such as wall panels, or routed to the corporate system for additional control options, all via separate Ethernet layers.

**The Taurus UCX offers noiseless operation** in most environments where conditions are considered regular, just like in a meeting room where temperatures do not exceed the low 20s in Celsius or about 70-75 in Fahrenheit.

In today's collaboration environments, it is key that the technology offers flexible and versatile ways for participants to unlock the full potential of a collaboration space and not be limited by the default options offered by their meeting rooms.

The **Taurus UCX product family** is Lightware's ground-breaking innovation offered for the increasingly growing demand for cutting-edge solutions in the world of Unified Communications.

## Highlighted Features

- Configurable secure corporate, room utility, and BYOD Ethernet connectivity
- Fanless cooling system
- USB-C charging up 100W (120W total)
- CEC at the HDMI outputs
- USB-C input connectivity for 4K Video, Audio, Data, and Power (Video, Audio, Data and Power over a single USB-C connection)
- Multiple USB 3.1 Gen 1 connectivity for any type of USB devices (Camera, speakerphone, touch monitor, USB-HID devices etc...)
- Separate USB 3.1 Host switching layer for multiple USB hosts and USB devices
- Supports HDMI 4K signal formats (4K UHD @60Hz RGB 4:4:4, up to 18 Gbps)
- USB 3.1 Gen 1, USB 2.0, USB 1.1 compliant
- Multiple Ethernet network configurations fitting various corporate network topologies and IT security standards (e.g. 802.1x compliance)
- SSH, SSL, HTTPS for IT security
- Occupancy sensor connection (with 24V power supply)
- Splash screen for custom corporate logo and on-screen display warning messages
- Audio de-embedding
- GPIO control ports
- Device control via Ethernet (TCP/IP)
- Uncompressed video up to 18 Gbps datarate (600 MHz pixel clock)

Variant	UCX-2x2-H30	UCX-2x1-HC30	UCX-4x2-HC30	UCX-4x2-HC30D	UCX-4x3-HC40
HDMI input	2	1	2	2	2
USB-C connectivity (4K Video, Audio, Data, Power charge)	0	1	2	2	2
HDMI output	2	1	2	2	3
USB-A 3.1 Gen1 Connection (for USB Devices)	4	4	4	4	4
USB-B 3.1 Gen1 Connection (for PC hosts)	2	1	2	2	1
USB-C Gen1 Connection (for PC hosts) with Video	✗	1	2	2	2
USB-C Gen1 Connection (for PC hosts) USB Data only	✗	✗	✗	✗	1
USB host switching	✓	✓	✓	✓	✓
DANTE/AES67 audio support	✗	✗	✗	✓	✗
Analog audio de-embedding (5-pole Phoenix)	✓	✓	✓	✓	✓
Secure control Ethernet	✓	✓	✓	✓	✓
Utility Ethernet	✗	✓	✓	✓	✓
Configurable Ethernet	✗	✓	✓	✓	✓
GPIO connection	6	6	6	6	6
Occupancy sensor connection	✓	✓	✓	✓	✓
RS-232 connection	2	1	2	2	2
Welcome Screen	✓	✓	✓	✓	✓

## Specifications

<b>Video</b>	Resolution	Up to UHD/4k@60Hz 4:4:4		
	Signal Type	DP Alt Mode, HDMI 2.0, HDMI 1.x, DVI		
	Maximum data rate	18 Gbps		
	Maximum pixel clock	600 MHz		
	Content protections	HDCP 1.x, HDCP 2.2		
	Connector type (IN)	2x HDMI receptacle type A with screw locking option 2x USB-C receptacle with screw locking option		
	Connector type (OUT)	3x HDMI receptacle type A with screw locking option		
	Video processing	Signal parameter measurement		
<b>Audio</b>	Audio mode	Simultaneous pass-through and de-embedding to the Audio layer		
	Supported audio formats for pass-through	All HDMI2.0 audio formats		
	Supported audio formats for de-embedding	Uncompressed	LPCM (up to 2 channels, 192 kHz, 24 bits per sample)	
<b>Control</b>	Ethernet	Control	1x 100Base-T via RJ-45 for Secure Control	
		User Data	2x 100Base-T via RJ-45 for Configurable Ethernet	
	RS-232	Connector	2x 3Pol Phoenix	
		Symbol rate	between 9600 and 115200 baud	
		Configuration	Parity: none, odd or even Stopbits: 1 or 2	
	USB	Connectors	2x USB Type C with charging function up to 100W (120W total), Optional Ethernet access	
			1x mini USB Type B (reserved for service)	
			1x USB Type A (reserved for future developments)	
			1x USB Type B for Host PC	
			1x USB Type C for Host PC	
Room Occupancy Sensor	Connector	3Pol Phoenix		
GPIO	Connector	8Pol Phoenix		
<b>General</b>	Powering	External 160W power supply		
	Dimensions	Width	246 mm	
		Height	26 mm	
		Depth	150 mm	
	Operating conditions	Ambient temperature	0-50°C	
		Relative humidity	0-90% (non-condensing)	
	Transportation conditions	Ambient temperature	-20-70°C	
		Relative humidity	0-95% (non-condensing)	
	Compliance	EN 55032:2015		
		IEC 61000-3-3:2013+AMD1:2017		
FCC CFR Title 47, Part 15, Subpart B				
Warranty	3 years			