Universal Matrix Switcher with USB-C Connectivity and Dante Audio

Universal matrix switcher that exploits the USB-C connectivity for a simplified transmission of 4K video, audio, control signals and power providing meeting participants with easy host switching, utilizing data speeds of up to 5 Gbps under the USB 3.1 Gen1 providing video resolution capabilities up to 4K@60Hz at 4:4:4 as well as comprehensive and secure Ethernet, and now also DSC (Display Stream Compression) for delivering high-quality video even over limited-bandwidth USB-C connections.



Details

Bring Collaboration Spaces to the Next Level

The **UCX-4x2-HC60D universal 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.

Supporting 5K

Taurus devices deliver **flawless switching for 5K 21:9 ultrawide displays**, unlocking a new level of visual performance for modern meeting and control environments. Designed to enhance layouts like **Microsoft Teams Front Row** and other collaboration platforms, Taurus provides **expanded screen real estate** for design, data visualization, and multi-window workflows. With **uncompressed HDMI 2.0 video** and **ultra-low latency**, it's the ideal choice for **simulation, engineering, broadcast, and executive boardroom applications**.

DSC Support — High-Performance Video & USB3, Finally Together

In its class of professional BYOD USB-C matrix switchers, the HC60 series uniquely combines **DSC over DP Alt Mode, full-bandwidth USB 3, host switching**, and **integrated Ethernet**. DSC (Display Stream Compression) enables **4K60 4:4:4 video on just two DP lanes**, leaving the remaining lanes available for **super-speed USB 3**, so **a single USB-C cable** can deliver **premium video and professional-grade USB peripherals simultaneously**.

This is a **major advantage**, ensuring **smooth operation of USB3 cameras, audio devices, and touch displays** while maintaining **perfect 4K60 image quality**. It also provides a **more reliable BYOD experience** in modern hybrid meeting rooms, even when laptops have limited DP bandwidth, and improves stability with **long or lower-quality USB-C cables** by reducing video bandwidth load.

macOS supports DSC at the hardware level, though the OS may still restrict certain high-resolution or HDR modes, and DSC behavior can vary across versions. To work properly, the laptop must support **DSC** and the connection must use **DP Alt Mode**.

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 allowing video resolution capabilities **5K (5120×2160) via HDMI 2.0 at 30Hz 4:4:4 or 60Hz 4:2:0**, as well as **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 2x USB-A type and 2 USB-C connectors.

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

Remote System Logging (Syslog)

Taurus devices now support remote system logging via industry-standard Syslog protocols (RFC3164 and RFC5424). This allows seamless integration with external SIEM and log monitoring systems.

- Forward logs via TCP, UDP, TLS
- Choose between human-readable and structured formats
- Easy configuration via LW3 protocol
- Local journald logging remains unaffected

Additional Features and Capabilities

The switcher also thrives when it comes to **audio capabilities**, offering **analog audio de-embedding** features as well as support for **DANTE/AES67** network connection to send DANTE/AES67 audio stream directly to a dedicated audio system.

Automated room control features are also included through **GPIO ports**, besides of **RS-232** and occupancy sensor connectivity.

Security is always a key concern to our customers, therefore our engineers ensured that the **UCX-4x2-HC60D** 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, no fan in the device.

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 to 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**.

Also available with NIST FIPS 140-2 certified cryptography (SKU: 91360028)

Features

- **HDMI Stereo embedded Audio** can be de-emb. audio and converted to 2 channel streams
- **USB-C charging up to 100W (120W total)**
- **Variant with NIST FIPS 140-2** certified Lightware Crypto Core (UCX-4x2-HC60D-LCC)
- **USB-C input connectivity** for 4K Video, Audio, Data, and Power over 1 USB-C
- **USB 3.1 Gen 1 connectivity** Camera, speakerphone, touch monitor, USB-HID devices
- **Separate USB 3.1 Host laye**r for multiple USB hosts and USB devices
- **Secure corporate and room utility** Ethernet connectivity
- **Supports HDMI 5K signal formats** 5120×2160 HDMI 2.0: 30hz 4:4:4 or 60hz 4:2:0
- **Passive noiseless cooling**
- **CEC at the HDMI outputs**
- **Supports HDMI 4K signal formats** 4K UHD @60Hz RGB 4:4:4, up to 18 Gbps
- **Remote system logging**
- **Smart HDMI 5V Signal Tracking** The “Follow Signal Present” mode powers the 5V output
- **Secure and Flexible Room LAN** Isolated VLAN network for secure room control

Specifications

Video	Resolution		Up to UHD/4k@60Hz 4:4:4
	5K Resolution		5120×2160 HDMI 2.0: 30hz 4:4:4 or 60hz 4:2:0
	Signal Type		DP Alt Mode, HDMI 2.0, HDMI 1.x, DVI
	Maximum data rate		18 Gbps
	Maximum pixel clock		597 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 type A with screw locking option
	Connector type (OUT)		2x HDMI receptacle type A with screw locking option
	Video processing		Signal parameter measurement
Audio	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)

Specifications

Control	Ethernet	Control	1x 1000Base-T via RJ-45 for Secure Control
		User Data	1x 1000Base-T via RJ-45 for Utility AV
			1x 100Base-T via RJ-45 for Configurable Ethernet
		Connector type	RJ45 female connector
		Ethernet data rate	1 Gigabit Ethernet
	RS232	Connector	2x 3Pol Phoenix
		Symbol rate	between 9600 and 115200 baud
		Configuration	Parity: none, odd or ever 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-B + 1x USB-C data for host devices
			2x USB Type A for peripherals
			2x USB Type C for peripherals
	Room Occupancy Sensor	Connector	3Pol Phoenix
	GPIO	Connector	8Pol Phoenix
General	Powering		External 160W power supply
	Power consumption (max)		150 W
	Heat dissipation		471 BTU/h (max)
	Dimensions	Width	271 mm
		Height	26 mm
		Depth	140.3 mm
	Weight		968 g
	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)
	Complience		EN 55032:2015 IEC 61000-3-3:2013+AMD1:2017 FCC CFR Title 47, Part 15, Subpart B
	Warranty		3 years