



Video Switcher with HDMI 2.0 and USB-C connectivity

Lightware's video switcher that exploits the USB-C connectivity for a simplified transmission of 4K video, audio, and power providing video resolution capabilities up to 4K@60Hz at 4:4:4.



Details

Bring Collaboration Spaces to the Next Level

The DCX-3x1-HC21 video switcher enhances and extends the possibilities of a meeting room and allows meeting participants to easily utilize the room HDMI display.

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 multiwindow workflows. With uncompressed HDMI 2.0 video and ultra-low latency, it's the ideal choice for simulation, engineering, broadcast, and executive boardroom applications.

Exploit the Possibilities of USB-C Connectivity

The device utilizes the USB-C connectivity for a simplified transmission of 4K video, audio, and power, allowing video resolution capabilities up to 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, 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 an HDMI 2.0 connection without compromising the video resolution.



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.

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Security is always a key concern to our customers, therefore our engineers ensured that the DCX-3x1-HC21 adheres to the strictest security standards.

Secure corporate Ethernet interface ensures secure device control and configuration under the SSL and HTTPS standards, whilst the device can also be securely connected to a closed network of room control devices such as wall panels.

The Taurus DCX offers noiseless operation in most environments where conditions are considered regular.

The Lightware Advanced Room Automation **(LARA) firmware of Taurus DCX** enables users to intuitively control and manage UCC room assets and facilities like lights, drapes, HVAC, etc. LARA helps instantaneously start meetings and launch scenarios, which contributes to the entire productivity of corporate teams that include onpremises and remote colleagues.

Features

- **Passive noiseless cooling**
- **USB-C input connectivity** for 4K Video, Audio, Data, and Power over 1 USB-C
- **Secure Ethernet connectivity**
- **CEC at the HDMI output** Available via REST API
- **USB-C charging up to 100W**
- **Remote system logging**
- **Supports HDMI 5K signal formats** 5120×2160
HDMI 2.0: 30hz 4:4:4 or 60hz 4:2:0
- **Supports HDMI 4K signal formats** 4K UHD @60Hz RGB 4:4:4, up to 18 Gbps
- **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
- **Factory default encryption** with password protection

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 1x USB-C receptacle type A with screw locking option
	Connector type (OUT)	1x HDMI receptacle type A with screw locking option
	Video processing	Signal parameter measurement

Specifications

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)	
Control	Ethernet	Control	1x 100Base-T via RJ-45 for Secure Control	
	USB	Connectors	1x USB Type C with charging function (up to 100W)	
			1x mini USB Type B (reserved for service)	
			1x USB Type A (reserved for future developments)	
General	Powering		External 120W power supply	
	Dimensions	Width	246 mm	
		Height	26 mm	
		Depth	140.3 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	