

Taurus model UCX-4x3-HCM40 seamlessly extends your BYOD (Bring Your Own Device) device's display to two screens simultaneously, eliminating the hassle of managing multiple cables and cables. Our innovative technology delivers two independent screens through a single USB-C cable, ensuring a clutter-free and streamlined workspace.

Highlighted features:

Box Contents

Switcher device

2 pcs of M3x4

flat head screws

Phoenix[®] Combicon

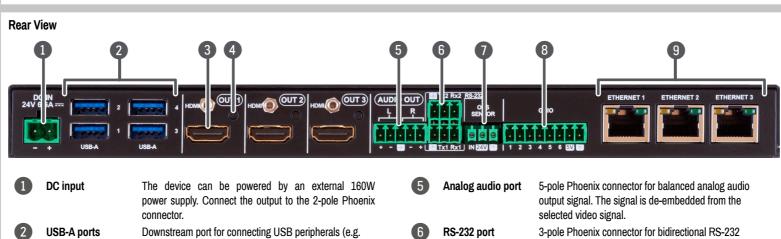
8-pole connector

 Multiple USB 3.1 Gen 1 connectivity for any type of USB device (Camera, speakerphone, touch monitor, USB-HID devices, etc.)

SUPER**SPEED**

- Multistream DP Alt Mode and DisplayLink supported
- Smart and noiseless cooling system
- CEC available at the HDMI outputs
- Multistream USB-C input connectivity for 4K Video, Audio, Data and Power
- Separate USB 3.1 Host switching laxer for multiple USB hosts and USB devices
- Dedicated secure corporate and room utility Ethernet connectivity

 Supports HDMI 4K signal formats (4K UHD @60Hz RGB 4:4:4, up to 18Gbps) USB-C charging up to 100W



_		connector.
2	USB-A ports	Downstream port for connecting USB peripherals (e.g. camera, keyboard, multitouch display) with USB 3.1 Gen1 data speed.
3	HDMI output ports	HDMI output ports for connecting sink devices (e.g. displays).
4	Video output status LEDs	See the details in the table on the right.

5	Analog audio port	output signal. The signal is de-embedded from the selected video signal.
6	RS-232 port	3-pole Phoenix connector for bidirectional RS-232 communication.
7	OCS sensor connector	3-pole Phoenix connector (male) for connecting an occupancy sensor. The port provides 24V output voltage (50mA).
8	GPIO port	8-pole Phoenix connector for configurable general purposes. Max. input/otput voltage is 5V.
9	Configurable Ethernet ports	RJ45 ports for configurable 100Base-T Ethernet communication.

	Connecting Steps
Safety and Ouick Warranty Start Mo Safety and warranty info, Quick Start Guide 24V power adaptor w IEC power cable	Room PC BYOD Laptop In N
Phoenix® Combicon 3-pole connector	"Two streams
Phoenix [®] Combicon 3-pole male connector	C CATX AUDIO CCS Power C CATX DO COS COS CONTRACTOR COS COS CONTRACTOR COS COS CONTRACTOR COS CONTRACTOR COS CONTRACTOR
ower supply. Warranty void if damage occurs due	use Ethernet Relay box Occupancy Power Active Speakers sensor outlet

USB-C	Connect a USB-C source (e.g. BYOD laptop) to the USB-C input port. The applied cable shall be certified for USB 3.1 Gen1 (5Gbps) and Displayport Alternate mode HBR2 (4x5.4Gbps) applications.
HDMI	Connect an HDMI source (e.g. BYOD laptop or room PC) to the HDMI input port.
CATx	Connect a device (e.g. BYOD laptop) to an Ethernet port to access the Internet or local network.
USB	USB Type-A: Optionally connect the USB device (e.g. Speaker phone). USB Type-B: Optionally connect the USB host (e.g. PC).
HDMI	Connect an HDMI sink (e.g projector) to the HDMI output port.
RS-232	Optionally for RS-232 extension: connect a controller/controlled device (e.g. Projector to the RS-232 port).
CATx	Optionally connect an Ethernet port to a Local Network Switch to provide Ethernet connection for device configuration and BYOD internet access.
Audio	Optionally connect an audio device (e.g. active speakers) to the analog audio output port by an audio cable.
GPIO	Optionally connect a device (e.g. Relay box) to the GPIO port.
OCS	Optionally connect an occupancy sensor to the OCS port.
Power	Connect the external power supply to the AC power socket and the switcher unit.
B Powerin	ng the device is recommended as the final step.

Always use the supplied power supply. of a different power source.

Arrangement of the status LEDs Video Input Status IN 1A Video Input Status ——— 👩 🌔 🔶 —— IN 1B Video Input Status

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USB Status

Front Panel LEDs

Live LED			
blinking	The device is powered on and operational.		
off	The device is not powered or out of operation.		
Video Input Status LED (the upper one)			
on	There is a valid video signal on this port.		
off	There is no valid video signal on this port.		
blink at once	The port is selected by a button press.		
USB Status LED (the lower one)			
on	The USB Host connected and selected.		
off	No USB Host or deselected port.		
	blinking off Input Statt on off blink at once Status LED on		

• When Dark mode is enabled, no LEDs are lit, even though the device is fully functional.

Further information on the device is available at www.lightware.com. The User's Manual is also available via the OR code below:



Contact Us

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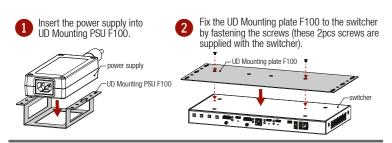
support@lightware.com

+36 1 255 3810 Lightware Visual Engineering PLC. Budapest, Hungary

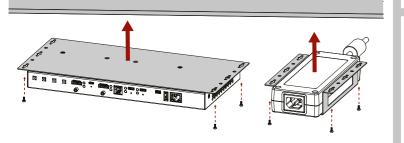
> Doc. ver.: 1.0 19210133

Mounting the Device (with optionally available accessories)

The examples demonstrate the applications of UD Kit accessories:



3 Fix the UD-Kits under the desk by fastening the screws.



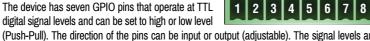
A UD-Mounting plate F100 and UD Mounting PSU F100 do not contain the fixing screws, they can be purchased from the local hardware store, 2x4pcs M3-M5 metric or wood screws needed, M3 size is recommended.

A To ensure the correct ventilation and avoid overheating, insert the switcher face down to the UD KIT to keep the ventilation holes free.

() For more mounting options and accessories please see the Mounting Assembly Guide on www.lightware.com.

GPIO (General Purpose Input/Output Ports)

The device has seven GPIO pins that operate at TTL



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(Push-Pull). The direction of the pins can be input or output (adjustable). The signal levels are the following:

	Input voltage (V)	Output voltage (V)	Max. current (mA)	
Logic low level	0 - 0.8	0 - 0.5	30	
Logic high level 2-5		4.5 - 5	18	

Plug pin assignment 1-6: Configurable, 7: 5V (max. 500 mA); 8: Ground

The recommended cable for the connectors is the AWG24 (0.2 mm² diameter) or the generally used 'alarm cable' with 4x0.22 mm² wires.

1) The maximum total current for the six GPIO pins is 180 mA, the max. supported input/ output voltage is 5V.

RS-232

The switcher provides a 3-pole Phoenix® connector for bi-directional serial communication. The signal levels are the following:

	Output voltage (V)	
Logic low level	3 - 15	
Logic high level	-15 - 3	
ur nin aggirmont: 1: Cround 2: TV data 2: DV data		

Plug pin assignment: 1: Ground, 2: TX data, 3: RX data

AV Port Diagram (UCX-4x3-HC40)

up to 100W

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USB Host 3

USB Host

OCS (Occupancy) Sensor

The switcher is supplied with a 3-pole Phoenix® connector (male), which is for connecting an OCS sensor.

Plug pin assignment: 1: Configurable; 2: 24V (max. 50 mA); 3: Ground

The signal levels for the Pin 1	Input voltage (V)	Max. current (mA)
Logic low level	0 - 0.8	30
Logic high level	2 -5	18

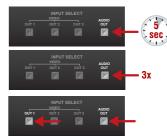
A The occupancy sensor connector and the GPIO port are not compatible with each other because of the voltage level difference, please do not connect them directly.

Setting a Dynamic IP Address (DHCP)

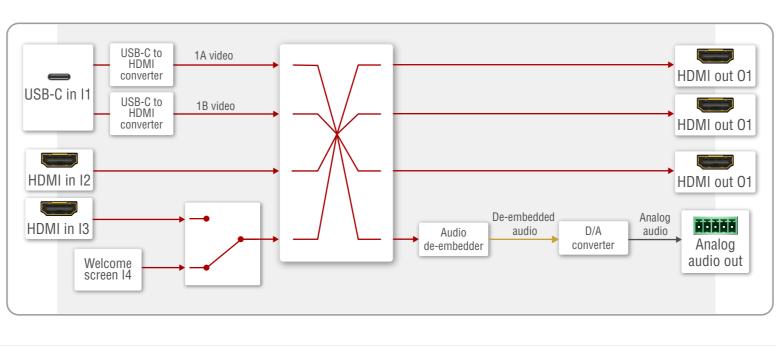
- 1. Keep the Audio out button pressed for 5 seconds; all front panel LEDs start to blink.
- 2. Release the button, then press it 3 times quickly. DHCP is now enabled.

Lock / Unlock Buttons

Press the VIDEO OUT1 and AUDIO OUT buttons together (within 100 ms) to disable/enable front panel buttons; front panel LEDs blink 4 times when locking / unlocking.



1 2 3



USB 3.1 Gen1

(5 Gbps)

USB 2.0

Factory Default Settings

To restore factory default values, do the following steps: Make sure the switcher is powered off. Press and keep pressing the VIDEO OUT2 button. Power on the switcher while the VIDEO OUT2 button is being pressed for 10 seconds. The device restores the factory default settings and reboots.

Dynamic (DHCP is enabled)
lightware- <serialno></serialno>
I1A to O1, I1B to O2, I2 to O3
HDCP 2.2
Auto
Auto
F47 - (Universal HDMI with PCM audio)
11 to O4
Volume (dB): 0.00; Balance:0 (center)
Disabled
Follow video O1
100W (Only on IN1)
Auto
Dual Role
Follow video O1
Auto
9600 BAUD, 8, N, 1
Enabled
Enabled
Disabled
Disabled

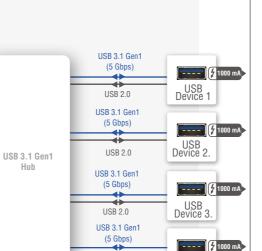
USB Port Diagram (UCX-4x3-HC40) USB 2.0 CPU ----USB Service 500 mA USB 3 1 Gen1 USB-C (5 Gbps) (5 Gbps) SuperSpeed 4 MUX USB 2.0 USB Host USB 2.0 hub+ Ethernet bridge USB 2.0

USB 3.1 Gen1(5 Gbps)

USB 2.0

USB 2.0

USB-C (5 Gbps)



LISB 2.0

USB Device 4.

Depending on the usage, the Ethernet bridge can use either the USB 2.0 (100Mbps) and the USB 3.1 (1Gbps) data channels as well.

SuperSpeed

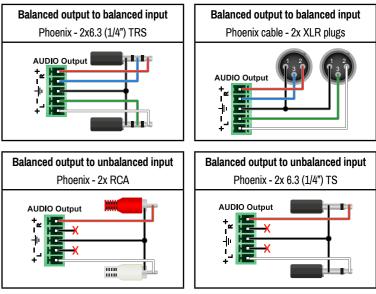
MUX

USB 3 1 Gen1

(5 Gbps)

Audio Cable Wiring Guide

The Taurus UCX series is built with a 5-pole Phoenix® output connector. See a few examples below of the most common assembling cases.



Software Control – Using Lightware Device Controller (LDC)

The device can be controlled from a computer using the Lightware Device Controller software. The application is available at www.lightware.com install it on a Windows PC or a macOS and connect to the device via LAN.

Firmware Update

Lightware Device Updater2 (LDU2) is an easy and comfortable way to keep your device up-to-date. Establish the connection via Ethernet. Download and install the LDU2 software from the company's website www.lightware.com, where you can find the latest firmware package as well.

LARA - Lightware Advanced Room Automation

LARA is a room automation platform designed to make setting up meeting rooms for easy and quick use possible. It connects the services and devices in the rooms with rules that can be customized to best suit the needs of the user. For more information, please see lightware.com/lara.



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Button functionality

HDMI OUT2 port.

Push the OUT1 button to set the video input to the HDMI OUT1 port. Push the OUT2 button to set the video input to the



Push the OUT3 button to set the video input to the HDMI OUT3 port.

Push the AUDIO OUT button to set the audio source of the analog audio output.

The sequence is the following for the video switching:

