

iTrans UC-HUB2U

Dual USB and HDMI Cameras Mixer Hub

Datasheet V1.1

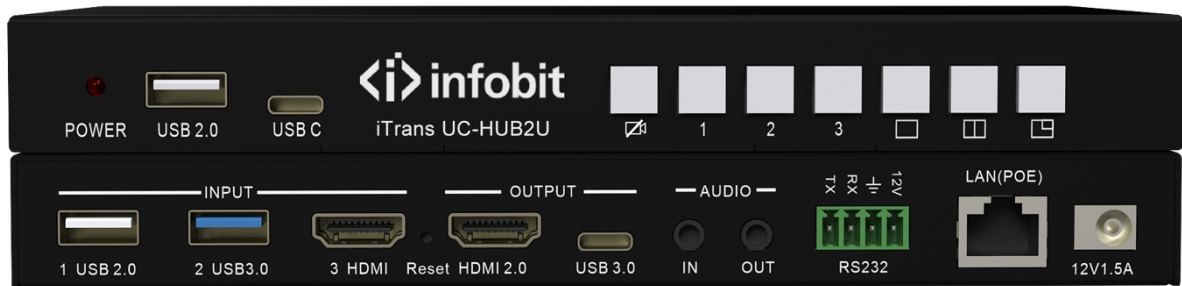


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1. OVERVIEW

The iTrans UC-HUB2U is an USB and HDMI source switcher and mixer, it enables fast switching between 3 sources (1x USB 3.0, 1x USB 2.0, 1x HDMI), and mixing 2 of them into 1 image, it provides one HDMI output for the local monitor, and one USB-C output for the PC to do web conferencing or live broadcasting.

This cost-effective and easy-to-use solution could be ideal for remote education, collaborative meetings, webinars, or live streaming where there are multiple cameras from different angles or need capture HDMI content to the remote together with cameras.

The INFOBIT iTrans UC-HUB2U Switcher is the most easy and reliable tool for simultaneous capture and mix of two of three video sources into one single USB stream with audio for your PC for recording, videoconferencing, lecture capture and streaming applications.

No driver installation is necessary, and it will work on all motherboards and USB 3.0 chipsets. It features two USB inputs, one HDMI input, a line level stereo analog input, a line level stereo analog output, an internal USB 3.0 hub with 2x USB 3.0 ports for expansion purposes and USB 3.0 connector for the host.

It supports UHD and HDTV video formats, up to 4K60, and most computer graphic formats. Compact in size and rugged, the switcher is a practical and an easy-to-use USB 3.0 capture solution. It is compatible with Windows, OSX and Linux operating systems, and is UVC-compliant.

The switcher supports 1080p resolutions up to 60 fps for USB and HDMI inputs. The line level stereo analog audio input and output are two-channel LPCM.

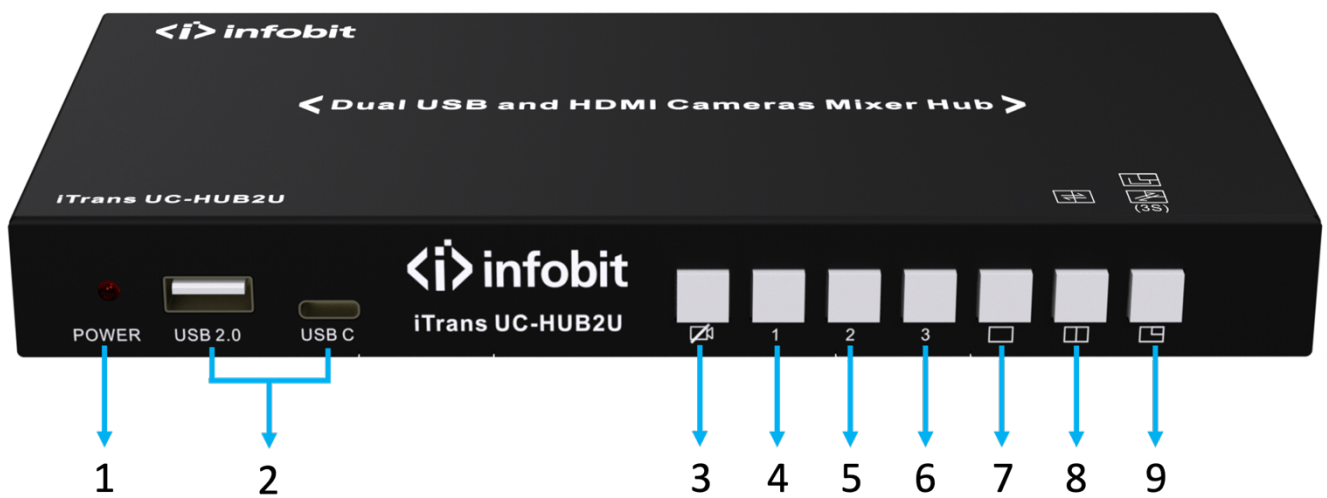
Main Feature:

- Supports 3 camera sources connection, 1x USB 3.0, 1x USB 2.0, 1x HDMI 1.4
- HDMI input can be any HDMI source like laptop, document camera.
- Seamless switching between 3 input sources.
- Mix videos from 3 input sources.
- Mixed layout can be defined in the web like picture in picture, side by side, big and small. -1x HDMI 2.0 output for local monitor, 1x USB-C (UVC/UAC) output for PC.
- Enable mute video/audio to video conferencing or live broadcasting.
- Audio I/O and mixer through the web.
- Controllable by LAN & RS-232.

- PoE supported, saving additional PSU.
- Cost-effective, reliable, and simple to install (no driver required).
- Compact and slim housing design with only 18mm height.

2. INTERFACES

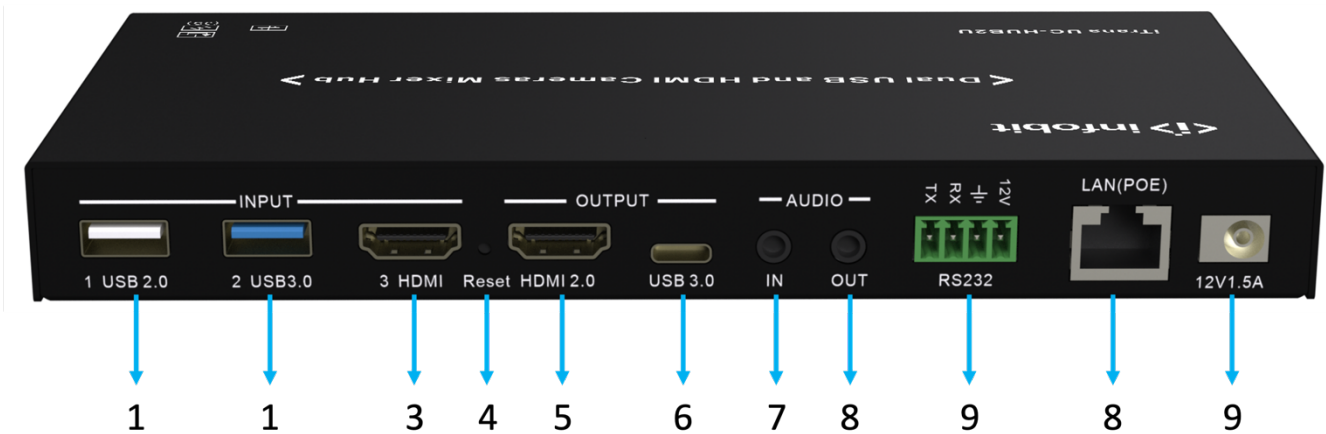
2.1 Front Panel



ID	Name	Description
1	Power Indicator	Power status indicator
2	USB 2.0 & USB C Ports	Reserved for future use
3	Video Mute Button	Short press to mute the UVC output. Press for 3s to show the IP address.
4	Video 1 Button	Switch the source from USB 2.0
5	Video 2 Button	Switch the source from USB 3.0
6	Video 3 Button	Switch the source from HDMI
7	Single Video Button	Single view layout
8	PBP Mode Button	Side by side layout Toggle-click to switch the left-right signals.

9	PIP Mode Button	Big & small layout Press for 3s to switch the big-small signals. Toggle-click to switch the small image positions.
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2.2 Rear Panel



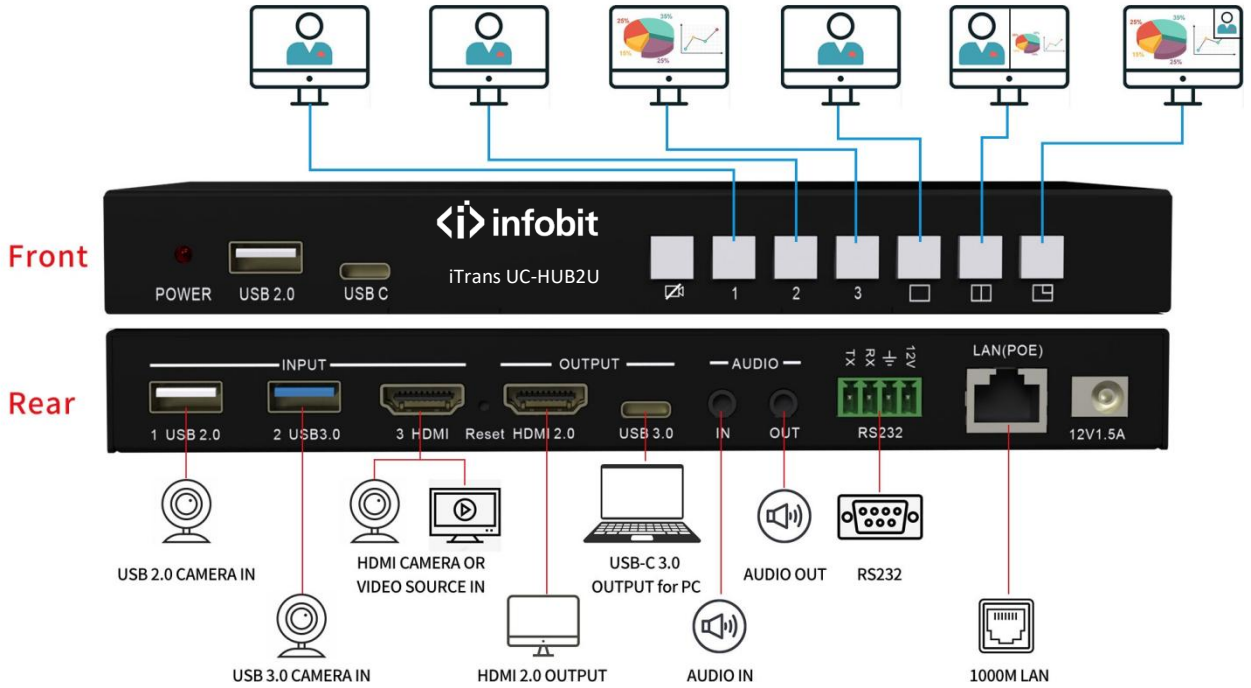
ID	Name	Description
1	1 USB 2.0 INPUT	1x USB 2.0 camera
2	2 USB 3.0 INPUT	1x USB 3.0 camera
3	3 HDMI INPUT	1x HDMI camera or video source
4	Reset button	Reset
5	HDMI 2.0 OUTPUT	1x HDMI 2.0 output for screen
6	USB 3.0 OUTPUT	1x USB-C output for PC
7	IN AUDIO	1x line in
8	OUT AUDIO	1x line out
9	RS232	1x RS232 for control
10	LAN (POE)	1x 1,000M LAN for control
11	Power	12V 1.5A power input

2.3 Top View



ID	Name	Description
1	Left-Right switching	Toggle press this button to switch the left and right images position.
2	Small image position	Toggle press this button to change the small image positions among 4x corners.
3	Big-Small switching	Long press this button for 3s to switch the big and small images positons.

3. DIAGRAMS



4. SPECIFICATIONS

OUTPUT	
HDMI output	1x HDMI 19-pin female connector
Format Compliance	HDMI1.4 / HDMI2.0
HDCP	HDCP1.4 / HDCP2.2
USB Interface	Type C x1, UVC and UAC
Video Output Resolution	HDMI: 3840x2160@60Hz, 3840x2160@30Hz, 1920x1080@60Hz, 1280x720@60Hz Type C: 1920x1080@30Hz, 1280x720@30Hz etc.
Analog Audio Output	HDMI, USB, Jack (analog input)
INPUT	
HDMI Input	1x HDMI 19-pin female connector
Format Compliance	HDMI1.4
HDCP	HDCP1.4
USB interface	Rear: USB 3.0, Type A x1; USB2.0, Type A x1 Front: USB 2.0, Type A x1, Type C x1
Video Input Resolution	HDMI: 1920x1080@60Hz, 1280x720@60Hz USB 3.0: 1920x1080@30Hz, 1280x720@30Hz etc. USB 2.0: 1920x1080@30Hz, 1280x720@30Hz etc.
Audio Input	HDMI, USB, Jack (analog input)
CONTROL	
Control connectors	3.5mm Phoenix terminal / RS232 interface
LAN port	RJ45 x1: 1,000Mbps, POE option (802.3af)
Control method	Web GUI, Telnet, RS232, Buttons
Dimension (W x D x H)	180mm x 95mm x 18mm
Weight	1KG
Operating Temperature	0° C to +45° C
storage Temperature	0° C to +60° C
Relative humidity	20%~ 85% RH (no condensation)
DC Power	12V
Power Consumption	15W(MAX)
Power adapter	AC100~240v 50/60Hz 12V/1.5A Adapter with four options: US, Europe, AU and UK