



**AC7922**  
**2-Port USB Type-C®/HDMI 4K@60Hz KVM Switch**

**en**

Manual

## AC7922 | 2-Port USB Type-C®/HDMI 4K@60Hz KVM Switch

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## Introduction

The AC7922 2-port USB-C/HDMI KVM switch controls two computers while sharing a single monitor, USB keyboard, and mouse. The HDMI output supports a monitor with a resolution up to 4K@60Hz. The AC7922 lets you switch between computers using the buttons on the switch itself, the IR remote control, keyboard hotkeys, a mouse, or RS-232 commands. The AC7922 has a solid metal housing and comes with all needed cabling.

## Features

- 1x HDMI port and 1x USB-C port
- USB-C charging port supports PD3.0 charging 100W
- HDCP 2.3 and DP 1.4 compliant
- Supports ultra-wide screens with resolutions up to 4K@60Hz, 2K@60Hz/144Hz
- Switching via front panel buttons, keyboard/mouse hotkeys, IR remote control, and RS-232 commands
- Supports auto switching inputs
- Each input port has an EDID emulator to provide the correct information for the PC

## Package Contents

The following parts need to be present in the packing:

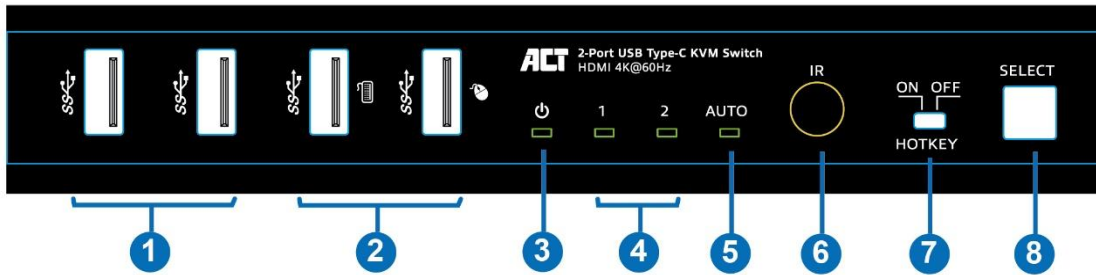
1x 2-Port USB Type-C®/HDMI 4K@60Hz KVM switch  
1x IR Remote (CR2025 battery included)  
1x 38KHz IR Receiver Cable 1.5m  
1x 3pin-3.81mm Phoenix Connector male  
1x USB-A male to USB-B 3.0 male 1.8m  
1x USB Type-C M-M, USB 3.2 GEN2  
1x HDMI Cable 1.5m  
2x Mounting Brackets  
4x Machine Screws M3x4  
1x Locking power supply 12V/1A  
1x Quick install

## Specifications

Technical	
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.3
DP Compliance	DP 1.4
Video Bandwidth	18 Gbps
Video Resolution	Up to 4K@60Hz, 2K@60Hz/144Hz
Audio Latency	No Latency
Video Latency	No Latency
IR Level	5Vp-p
IR Frequency	Fixed Frequency 38KHz
Color Space	RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12bit
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
CEC	Supported
Audio Formats	HDMI IN/OUT: Supports major audio formats: LPCM, Dolby (Digital, TrueHD, Atmos), DTS (HD, DTS:X), and DSD.  LINE OUT: PCM 2.0CH
Connection	
Input Ports	1 x HDMI input [Type A, 19-pin female] 1 x USB-C [AV signal input] 1 x USB-C [PD Power input]
Output Ports	1 x HDMI output [Type A, 19-pin female] 1 x L/R audio output [3.5mm Stereo Mini-jack]
Control Ports	1 x RS-232 [3pin-3.81mm phoenix connector] 1 x IR EXT [3.5mm Stereo Mini-jack] 1 x USB HOST [USB 3.0 Type B, 11-pin female] 4 x USB DEVICES [USB 3.0 Type A, 13-pin female]

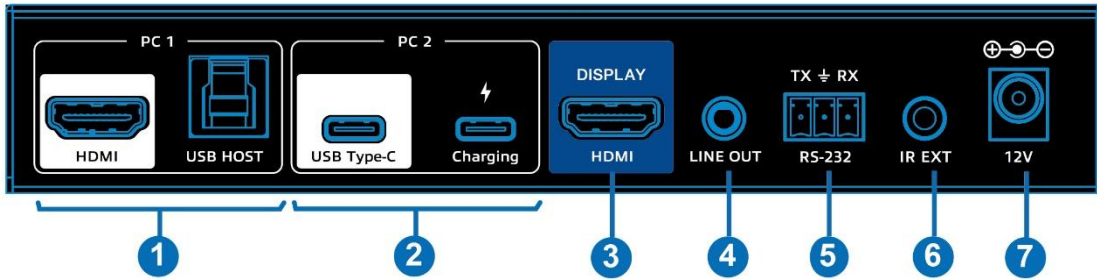
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	175 mm (W) × 100mm (D) × 30mm (H)
Weight	0,503 Kg
Power Supply	Input: AC100 - 240V 50/60Hz Output: DC 12V/1A (US/EU standard, CE/FCC/UL certified)
Power Consumption	Standard usage: 7,8W Standby: 0,6W
Operation Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -40°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

## Front Panel Controls and Functions



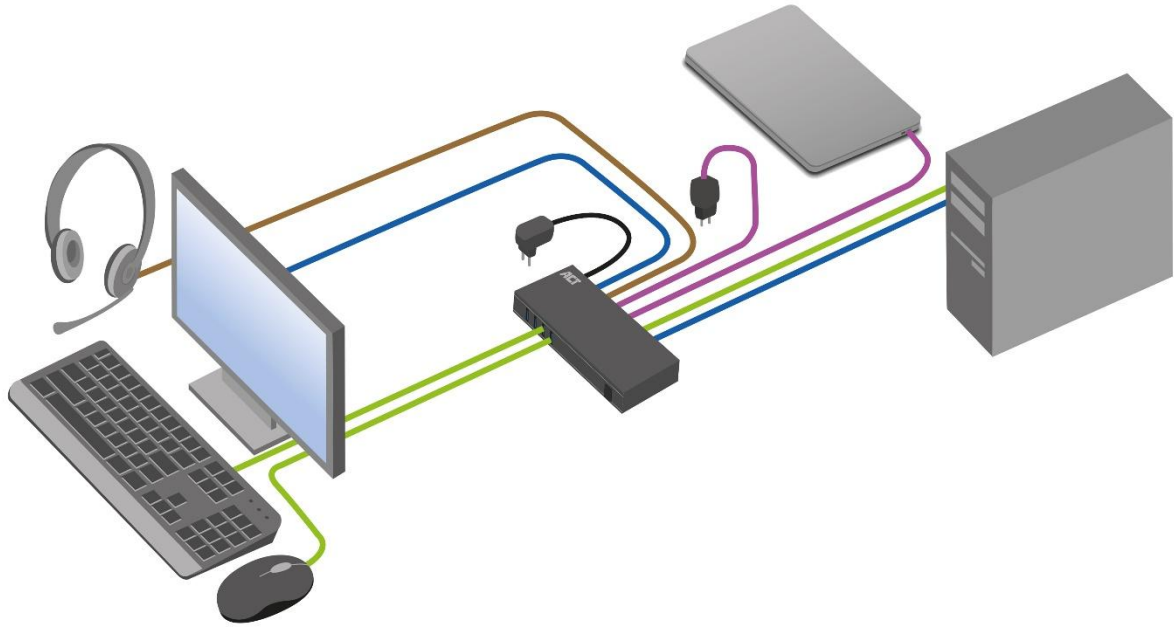
No.	Name	Function Description
1	USB 3.0 ports	USB 3.2 Gen 1 device ports.
2	USB 3.0 ports (with hotkey mode)	Hotkey OFF: Ports support USB 3.2 Gen 1 devices. Hotkey ON: Ports support USB 1.1 mouse and keyboard only
3	Power LED	Power LED: Green when active, red when in standby
4	Input channel LED 1/2	HDMI input 1/2 selected: corresponding LED 1/2 lights green.
5	AUTO LED	When the auto switching function is enabled, the AUTO LED will be green. When the auto switching function is disabled, the AUTO LED will be off.
6	IR Sensor	Infrared Sensor Window
7	HOTKEY switch	Use the switch to toggle hotkey mode. ON: Keyboard and mouse support hotkey switching. OFF: Hotkey switching disabled
8	SELECT button	Press the button to switch the input channel.

## Rear Panel Controls and Functions



No.	Name	Function Description
1	PC 1 Ports	<b>HDMI:</b> Input port for HDMI signal, connect to an HDMI source device (e.g., PC) using an HDMI cable. <b>USB HOST:</b> USB host port for PC 1, also used for firmware upgrades.
2	PC 2 Ports	<b>USB Type-C:</b> Input port for USB-C signal, connect to a USB-C source device (e.g., PC) using a USB cable. <b>Charging:</b> USB-C power input (PD 3.0 supported), connect to a power adapter to charge PC 2 linked to the USB Type-C port.
3	DISPLAY HDMI port	HDMI: Output port for HDMI signal, connect to a display device (e.g., TV or monitor) using an HDMI cable.
4	LINE OUT	3.5mm analog audio PCM2.0 output port.
5	RS-232 port	3-pin Phoenix connector for connecting to a PC or control system. Used for device control via API commands and for serial port firmware upgrades
6	IR EXT	IR signal input port for connection to a 38 kHz IR receiver cable. If the unit's built-in IR sensor is blocked or installed in an enclosed area without line of sight, connect an external IR receiver to the 'IR EXT' port to receive remote control signals
7	12V	DC 12V/1A power input port.

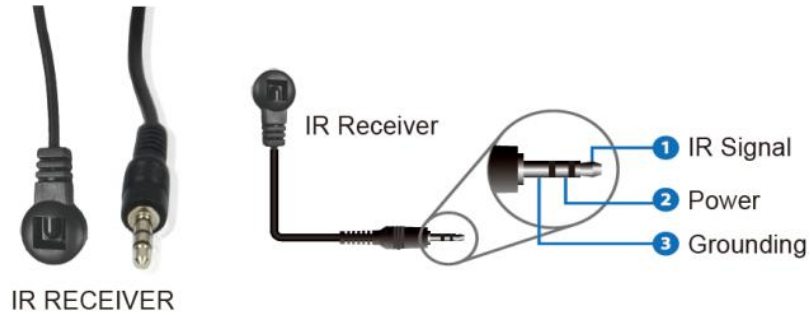
## Connection Example



- HDMI
- USB
- USB-C
- Power
- Audio

## IR Pin Layout

IR Receiver pin's layout is as below:



## IR Remote

	1	<b>Power/Standby:</b> Press to turn the switcher on or set it to standby mode.
	2	<b>Auto:</b> Press this button to enable/disable the auto switching function.
	3	<b>1/2:</b> Press the 1 or 2 button to select HDMI input port 1 or 2 as the active channel. The corresponding LED on the front panel will light green.
	↻	<b>Cycle Input:</b> Press this button to switch through the input channels in sequence.

## Hotkey Switch Function

The front-panel HOTKEY switch enables or disables the hotkey feature:

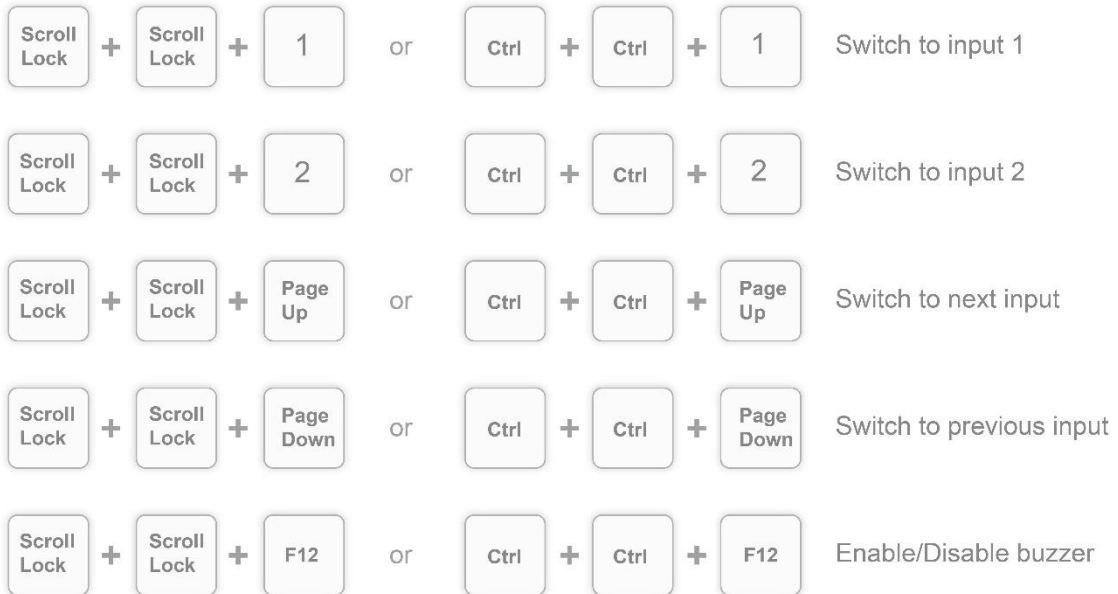
**OFF:** Hotkey function disabled. The two USB 3.0 ports support USB 3.2 Gen 1 devices.

**ON:** Hotkey function enabled. The two USB 3.0 ports support only USB 1.1 keyboard and mouse for hotkey switching.

## Keyboard & Mouse Hotkey Function

When hotkey mode is enabled, you can use keyboard and mouse shortcuts to operate and control the device.

### Keyboard hotkeys:



### Mouse Hotkeys:

Double-click the scroll wheel, then right-click → Switch to next input

Double-click the scroll wheel, then left-click → Switch to previous input

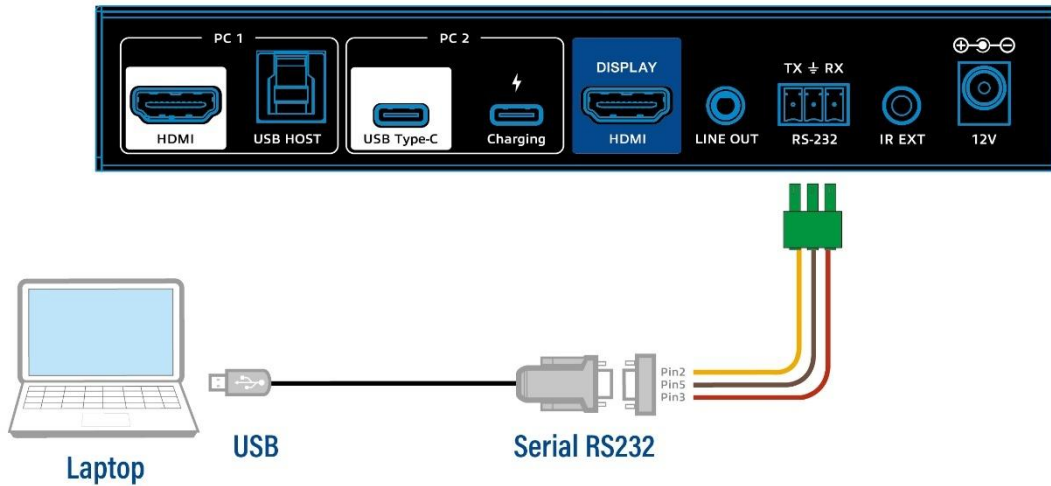
## RS-232 Control and ASCII Command Interface

The device is equipped with an **RS-232 communication port** to facilitate remote control using **ASCII commands**.

### Connection Requirements

The connection between the product and the control PC requires two components:

1. A **3-pin Phoenix connector cable** (for interfacing with the product's port).
2. An **RS-232 to USB cable** (to connect to the PC's standard port).



## ASCII Commands

ASCII Commands				
Serial port protocol. Baud rate: 115200 (default), Data bits: 8, Stop bits:1, Check bit: 0				
x - Parameter 1		z - Parameter 2		! - Delimiter
Command Code	Function Description	Example	Feedback	Default Setting
help!	List all commands	help!		
status!	Get device current status	status!		
r type!	Get device model	r type!	2-port usb type-c / hdmi kvm switch 4k60hz	
r fw version!	Get firmware version	r fw version!	mcu fw version: vx.xx.xx sub fw version: vx.xx.xx sub boot version: vx.xx.xx kvm fw version: vx.xx.xx	
power z!	Power on/off the device(z=0~1) 0. power off 1. power on	power 1!	power on	
r power!	Get current power state	r power!	power on	
reboot!	Reboot the device	reboot!	reboot...	
reset!	Reset to factory defaults	reset!	reset to factory defaults	
s output 1 stream x!	Set output 1 stream enable/ disable (x=0~1) 0. disable output stream 1. enable output stream	s output 1 stream 1!	output 1 stream: enable	output 1 stream: enable
r output 1 stream!	Get output 1 stream status	r output 1 stream!	output 1 stream: enable	
s auto switch x!	Enable/disable auto switch feature (x=0~1) 0. disable auto switch 1. enable auto switch	s auto switch 1!	auto switch: enable	auto switch: enable
r auto switch!	Get auto switch feature	r auto switch!	auto switch: enable	
s output 1 in source x!	Route input x source to output 1 (x=1~2) 1. input1 2. input2	s output 1 in source 1!	output1->input1	
r output 1 in source!	Get output 1 selected input source	r output 1 in source!	output1->input1	
s beep z!	Enable/disable buzzer function (z=0~1) 0. beep off 1. beep on	s beep 1!	beep on	beep off
r beep!	Get buzzer state	r beep!	beep on	

## Service and support

This user manual has been carefully written by ACT's technical experts. If you have problems installing or using the product, please check the **support** link at the website [www.act-connectivity.com](http://www.act-connectivity.com).

## Warning and points of attention



Due to laws, directives and regulations set out by the European parliament, some (wireless) devices could be subject to limitations concerning its use in certain European member states. In certain European member states the use of such devices could be prohibited. Contact your (local) government for more information about these limitations.

Always follow up the instructions in the manual\*, especially where it concerns devices which need to be assembled.

Warning: In most cases this concerns an electronic device. Improper use may lead to severe injuries!

When you connect the device to the mains, make sure it will not be damaged or subject to (high) pressure.

A power socket is needed which should be close and easy accessible from the device.

Repairing of the device should be done by qualified ACT staff. Never try to repair the device yourself. The warranty immediately voids when products have undergone self-repair and/or by misuse. For extended warranty conditions, please visit our website at [www.act-connectivity.com](http://www.act-connectivity.com)

Dispose of the device appropriately. Please follow your country's regulations for the disposal of electronic goods.

Please check below safety points carefully:

- Do not apply external force on the cables
- Do not unplug the device by pulling the power cable
- Do not place the device near heating elements
- Do not let the device come in contact with water or other liquids
- If there is any strange sound, smoke or odor, remove the device immediately from the power outlet.
- Do not put any sharp objects into the venting hole of a product
- Do not use any damaged cables (risk of electric shock)
- Keep the product out of reach of children
- Wipe off the product with soft fabric, not water mop.
- Keep the power plug and outlet clean
- Do not unplug the device from the power outlet with wet hands
- Unplug the device when you don't use it for a long time
- Use the device at a well ventilated place

*\*Tip: ACT manuals are written with great care. However, due to new technological developments it can happen that a printed manual no longer contains the most recent information. If you are experiencing any problems with the printed manual or you cannot find what you are looking for, please always check our website [www.act-connectivity.com](http://www.act-connectivity.com) first for the newest updated manual.*

*Frequently asked questions (FAQ). Consult **support** on our website [www.act-connectivity.com](http://www.act-connectivity.com) and see if you can find the right information about your product here. It is highly advisable to consult the FAQ section first, the answer is often here.*

## Warranty conditions

The ACT warranty applies to all ACT products. After purchasing a second-hand ACT product, the remaining warranty period is calculated from the moment of purchase by the product's initial owner. ACT warranty applies to all ACT products and parts, indissolubly connected or mounted to the product it concerns. Power supply adapters, batteries, antennas and all other products not directly integrated in or connected to the main product or products of which, without reasonable doubt, can be assumed that wear and tear during use will show a different pattern than the main product, are not covered by the ACT warranty. Products are not covered by the ACT warranty when exposed to incorrect/improper use, external influences or when opening the service parts of the product by parties other than ACT. ACT may use refurbished materials for repair or replacement of your defective product. ACT cannot be held responsible for changes in network settings by internet providers. We cannot guarantee that the ACT networking product will keep working when settings are changed by the internet providers. ACT cannot guarantee the working of web services, apps and other third party content that is available through ACT products

### **When my product gets defective**

Should you encounter a product rendered defective for reasons other than described above: Please contact your point of purchase for taking care of your defective product.