



ACEPRO_{AV}



AcePro-KV24-1

2x1 HDMI/USB-C 4K60Hz KVM
Switch with PD pass-through

User Manual

Features

- Compact 2x1 USB-C/HDMI 4K Video KVM switch enables easy switching between two host devices (Laptop/Tablet/Smartphone/Desktop) on a single 4K display, keyboard, and mouse.
- With a USB-C charging port, supporting PD3.0 charging 100W.
- Supports Ultra-wide Screen, resolutions up to 4K@60Hz 4:4:4 8bit and can also transmit USB 3.0 5Gbps for KVM function.
- Switch via front panel buttons, keyboard/mouse hotkeys, IR remote control, and RS-232 commands.
- 4x USB 3.0 ports allow you to share USB peripherals like printer, scanner, webcam and hard disk between computers with data transfer rates up to 5Gbp/s.
- Built-in LED provides easy recognition of power and switch status.

Package Contents

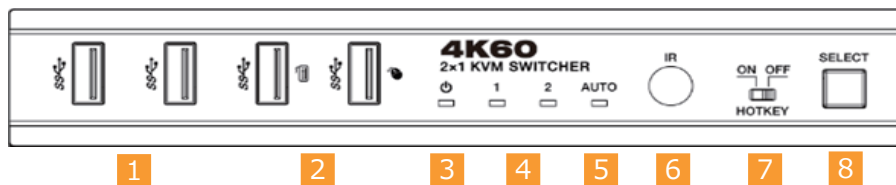
- 4K60 2x1 HDMI/USB-C KVM Switcher
- 1 x IR Remote
- 1 x 3pin-3.81mm Phoenix Connector
- 1 x IR Receiver Cable
- 1 x USB Cable (USB 3.0, AM to BM, 1.8 meters)
- 1 x USB Type-C Cable (USB 3.2 GEN2, 1 meters)
- 1 x HDMI Cable (1.5 meters)
- 2 x Mounting Ears
- 4 x Machine Screws
- 1 x 12V/1A Power Adapter
- User Manual

Recommended HDMI/USB-C Cable

Recommended HDMI/USB-C Cable		
Video Resolution	4K60 4:4:4	1080P 4:4:4
HDMI Cable Type	HDMI cable	HDMI cable
HDMI Cable Length (HDMI IN / OUT)	5m/16ft	10m/33ft
USB-C Cable Type	USB-C cable	USB-C cable
USB-C Cable Length (USB-C IN)	1.5m/4.9ft	1.5m/4.9ft

Layout

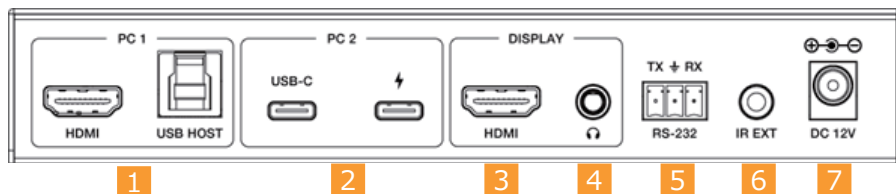
Front



- 1. USB-A Ports:** Connect to USB 3.0 5Gbps devices.
- 2. USB-A Ports** (with hotkey mode): Support USB 3.0 devices and Hotkey mode.
- 3. Power LED:** Shows green when power on, and red when the product is on standby.
- 4. Input Channel LED 1/2:** Shows green when the HDMI input port 1/2 is selected.
- 5. AUTO LED:** Shows green when this function is enabled.
- 6. IR Window:** IR signal receiving window.
- 7. HOTKEY:** Switch to enable/disable the hotkey switching mode.
- 8. SELECT Button:** Press the button to switch the input channel.

Layout

Rear



- 1. PC 1 Port:** HDMI input connected to HDMI source. The USB port connected to PC 1. It can be used for firmware updates.
- 2. PC 2 Port:** The USB-C input connected to the Full-Functioned USB-C port on your device. USB-C power input (PD 3.0 100W). Connect to the PD charger to power the PC 2 host.
- 3. HDMI Port:** Connect to HDMI display.
- 4. L/R Audio Port:** 3.5mm audio PCM2.0 output port.
- 5. RS232 Port:** 3-pin Phoenix connector, connected to a PC or control system for serial port upgrade.
- 6. IR EXT Port:** IR signal receiving window.
- 7. DC 12V:** For plugging in DC 12V/1A power adapter.

IR Cable



IR Receiver

Hotkey Switch Function

The Hotkey switch on the front panel allows you to enable/disable the Hotkey switch function.

1. When Hotkey switch to OFF mode, the hotkey switch function is disabled, and two USB 3.0 ports (with hotkey mode) support USB-A 5Gbps devices.
2. When Hotkey switch to ON mode, the hotkey switch function is enabled, and two USB 3.0 ports (with hotkey mode) only support USB 1.1 mouse and keyboard, which can be used for hotkey switching.

Keyboard & Mouse Hotkey Function

When the hotkey mode is enabled, you can use keyboard and mouse hot keys to operate and control the product.

1. Keyboard hotkeys are as following:

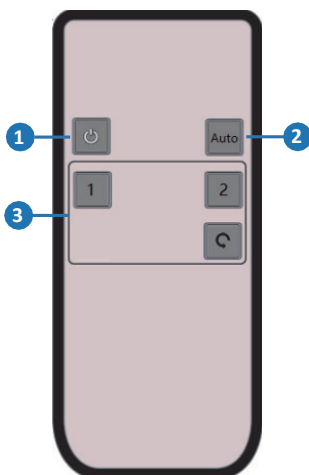
	+		+		or		+		+		Switch to input 1
	+		+		or		+		+		Switch to input 2
	+		+		or		+		+		Switch to next input
	+		+		or		+		+		Switch to previous input
	+		+		or		+		+		Enable/Disable buzzer

2. Mouse hotkeys are as following:

Double-Click Middle-Right (Double-click the mouse scroll wheel, and then click the right button): Switch to next input

Double-Click Middle-Left (Double-click the mouse scroll wheel, and then click the left button): Switch to previous input

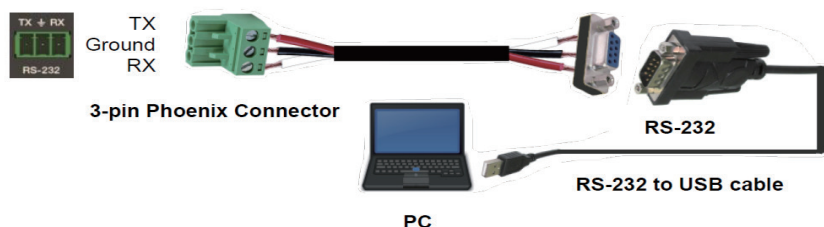
IR Remote



- 1. Power on or Standby:** Press this button to power on the switcher or set it to standby mode.
- 2. Auto:** Press this button to enable/disable the auto switching function.
- 3. 1/2:** Press 1/2 button to select the HDMI input 1/2 as the input channel, and the corresponding channel LED on the front panel will light in green.
C: Press this button to cyclically switch the input channel.

ASCII Commands

The product also supports ASCII commands control. Connect the RS-232 port of the product to a PC with a 3-pin phoenix connector cable and an RS-232 to USB cable. The connection method is as follows.

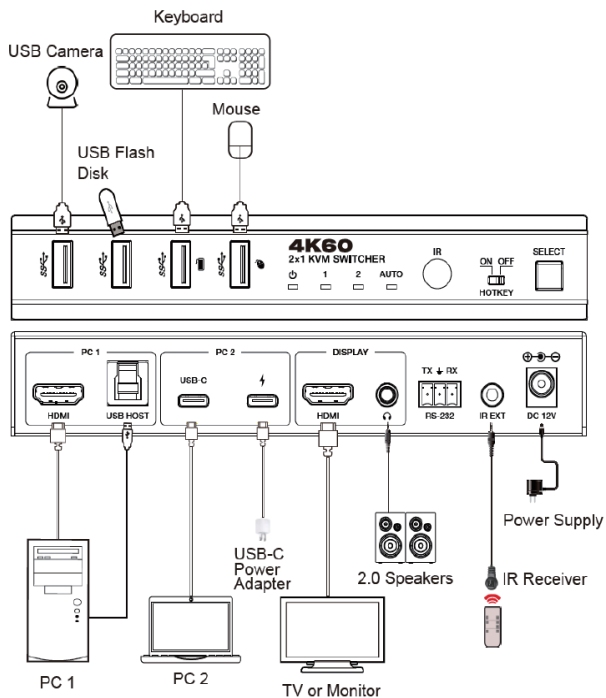


Then, open a Serial Command tool on PC to send ASCII commands to control the product. The ASCII commands list about the product is shown as below.

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!	2x1 kvm hdmi2.0/ usb-c switcher	
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	

Command Code	Function Description	Example	Feedback	Default Setting
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	

Application



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