



HDMI UHD Seamless Multiviewer Video Switcher

TRI-AVC-H42PS4K-6009



Product Overview

The TRI-AVC-H42PS4K-6009 4x2 seamless presentation switch supports video resolutions up to 4K@60Hz 4:4:4 8-bit deep color and is HDCP 2.3 compliant. It features multi-view function for multi sources can be displayed on single screen. This presentation switch supports two HDMI outputs and one HDBaseT 3.0 mirrored with HDMI OUT2 output and HDBaseT 3.0 extending uncompressed 4K60Hz 4:4:4 up to 132ft/40m or 4K30Hz/1080P60Hz up to 230ft/70m via single Cat6A cable.

4K

4K2K@60Hz
4:4:4



Multiview
mode



CEC Control



Manual
Switching
Mode

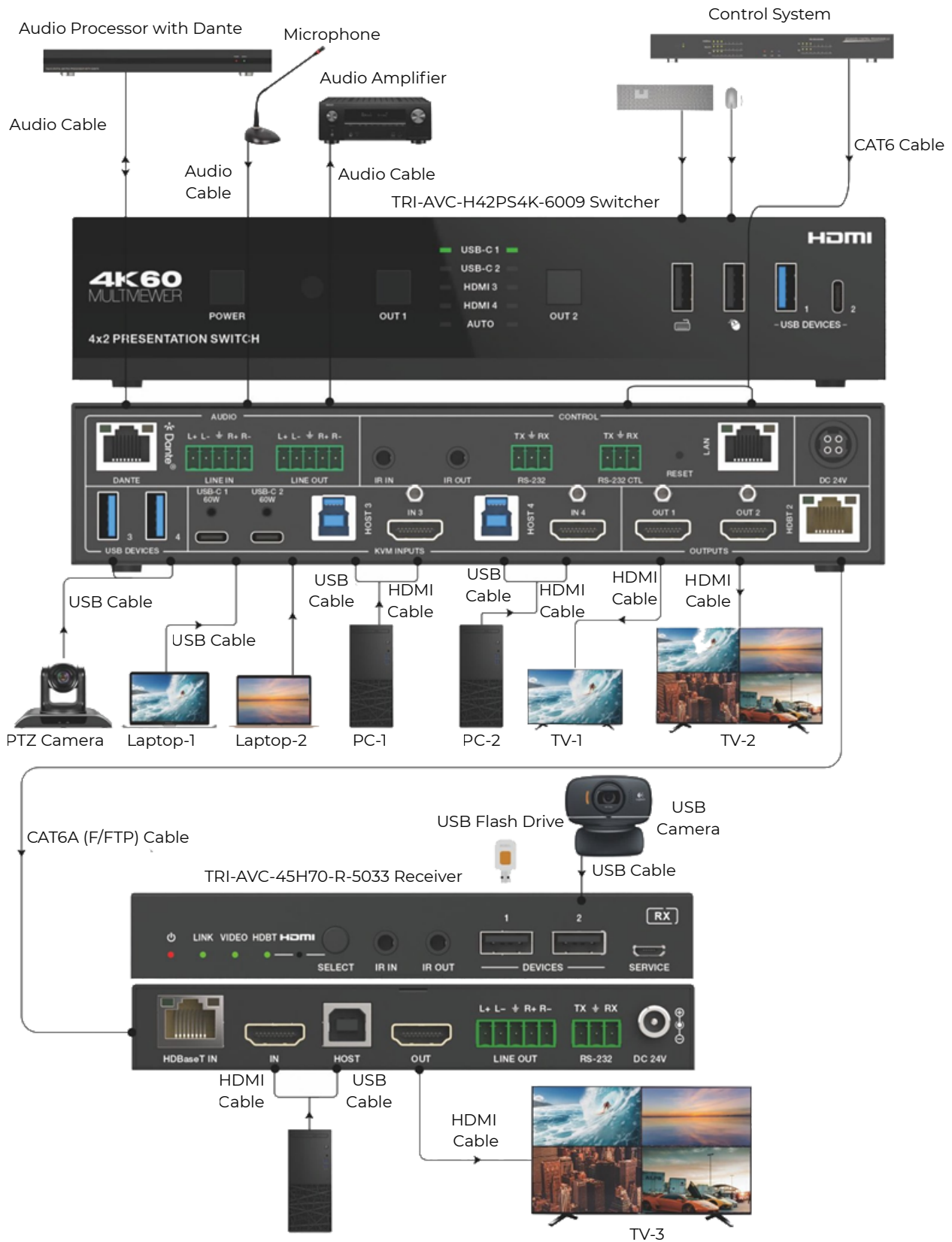


Auto
Switching
Mode

Key Features

- HDMI 1.4b, HDCP 1.4 compliant
- Video resolution up to 4K@60Hz 4:4:4, as specified in HDMI 2.0b
- HDCP 2.3, DP 1.4 and HDBase 3.0 compliant
- USB 3.2 Gen 1 up to 5Gbps
- 4x2 seamless switching (single screen) and fast switching (multiview) function
- Manual switching or auto switching mode
- Multiple multiview display modes: Auto/Single/PIP/PBP/Triple/Quad/Custom
- Input: 2x USB-C, 2x HDMI, 1x Analog audio, 1x Dante 2ch
- Output: 1x HDMI, 1x HDMI + HDBaseT mirrored, 1x Analog audio, 1x Dante 2ch
- USB-C supports DisplayPort Alternate mode for A/V, USB 3.2, 1G LAN and 60W charging
- Local USB 3.2 switching and extending USB 2.0 over HDBaseT 3.0
- Local USB KVM hotkeys and mouse switching
- Uncompressed 4K60 4:4:4 over HDBaseT 3.0 up to 132ft/40m via single CAT6A cable
- Uncompressed 1080P&4K30 over HDBaseT 3.0 up to 230ft/70m via single CAT6A cable
- Audio embedded and de-embedded
- Audio DSP for gain, equalizer, volume and delay
- Dante 2x2 audio input and output
- CEC/RS-232 control external devices ON/OFF
- Advanced EDID management
- Support standard PoE power supply from TX to RX (TX_PSE, RX_PD)
- Flexible control via front panel buttons, IR remote, RS-232, TCP/IP or Web GUI

Connection Diagram



Product specification

HDMI Compliance

HDMI 2.0b

HDCP Compliance

HDCP 2.3

DP Version

DP 1.4

Video Bandwidth

18 Gbps

USB Bandwidth

USB 3.2 Gen 1 up to 5 Gbps

Network Bandwidth (LAN and USB Connection)

1 Gbps

Video Resolution

Up to 4K@60Hz 4:4:4

IR Level

12Vp-p

IR Frequency

Wideband 20K–60KHz

Color Depth

8/10/12-bit

Color Space

RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0

Audio Formats

USB-C/HDMI/HDBT: Digital audio, 32–192KHz/24bit, LPCM 2CH

LINE IN: Analog audio, Balanced/unbalanced 2CH, Max input level 2Vrms

LINE OUT: Analog audio, Balanced 2CH (Max output level 2Vrms) / unbalanced 2CH (Max output level 1Vrms)

DANTE: Digital audio 2×2 in/out, LPCM 2CH 44.1K–96KHz 16/24Bit

Transmission Distance

HDBT: 230ft / 70m (1080p@4K30), 131ft / 40m (4K60)

HDMI: 9.8ft / 3m

USB-C: 9.8ft / 3m

Transmission Distance

IEC 61000-4-2: ±8KV (Air-gap discharge), ±4KV (Contact discharge)

TX Analog Audio

Input Impedance: 10K Ohms

Output Impedance: 330 Ohms

Line Input Level (Maximum): 8.2dBu (2Vrms) @ balanced or unbalanced audio

Line Output Level (Maximum): 8.2dBu (2Vrms) @ balanced audio, 2.2dBu (1Vrms) @ unbalanced audio

Frequency Response: (+0.5 dB, -1 dB) 20 Hz to 20 kHz

Audio Output Sync Delay: < 1 ms

Audio S/N Ratio: 93dB @ 2Vrms, 1kHz A-weighted

Audio THD+N: <0.1% @ 0dBV, 1kHz

Interface

Input:

2 × HDMI IN (HDMI Type A, 19-pin female)

2 × USB-C IN (Type C, 24-pin female)

1 × LINE IN (5-pin 3.5mm phoenix connector)

1 × DANTE IN (RJ45)

Output:

2 × HDMI OUT (HDMI Type A, 19-pin female)

1 × HDBT OUT (RJ45, 48V POE/PSE)

1 × LINE OUT (5-pin 3.5mm phoenix connector)

Control:

1 × RS-232 (3-pin 3.5mm phoenix connector)

1 × RS-232 (DB9, 3-pin female)

1 × LAN (RJ45)

2 × USB 3.2 HOST (USB Type B, 9-pin female)

3 × USB 3.2 DEVICES (USB Type A, 9-pin female)

2 × USB 1.1 KVM (Type A, 4-pin female)

1 × USB-C DEVICE (Type C, 24-pin female)

1 × IR IN (3.5mm audio jack, 12V level)

1 × IR OUT (3.5mm audio jack, 12V level)

Product specification

Mechanical

Housing: Front panel – Aluminum; Rear case
– Metal enclosure

Dimensions

220mm (W) × 220mm (D) × 44.5mm (H)

Weight

1.78kg

Power Supply & Power Consumption

Input: AC100–240V 50/60Hz

Output: DC 24V/4A

(US/EU standard, CE/FCC/UL certified)

170W (Max)

Temperature

Operating: 0°C to 40°C / 32°F to 104°F

Storage: -40°C to 60°C / -40°F to 140°F

Humidity

Operating: 20%–80% (relative humidity, non-condensing)

Storage: 10%–90% (relative humidity, non-condensing)