

PANIO CQ4150K

4K HDMI KVM Multi-Viewer Switcher

Advanced Taiwan Tech Architecture, Smart Mouse Roaming, USB Sync Control, Audio Separation, Multi-View Split-Screen Layouts

Diagram



Product Overview

The CQ4150K is an enterprise-grade 4K multi-viewer KVM switcher built on high-end Taiwan technology architecture and premium Taiwan Realtek high-performance chipsets for stable signal processing and reliable 24/7 operation.

The system displays up to 4 computing sources from 5 available inputs on one 4K monitor. Hardware Mouse Roaming, USB synchronization and audio extraction improve operator efficiency in conference rooms, control rooms and enterprise AV systems.

Product Features

- 4K Ultra HD Display Output: HDMI inputs support up to 4K; HDMI 2.0 output supports up to 3840 x 2160 @60Hz.
- Hardware Mouse Roaming: Move the cursor across screen borders to switch KVM control between host PCs instantly.
- Flexible Split-Screen Layouts: Supports Quad 4-split, dual split, PIP (1 Large / 1 Small) and full-screen display.
- USB KVM Synchronization: Broadcast keyboard and mouse movements to connected computers in split-screen views.
- Analog Audio Extraction: 3.5mm stereo output separates embedded HDMI audio for speakers, PA systems or soundbars.
- Multi-Protocol Switching: Control by front panel keys, keyboard hotkeys, IR remote or mouse boundary tracking.
- Comprehensive Interface Array: 4 x HDMI, 1 x DP video input and 4 x USB KVM host ports; DP is video only.
- Advanced Aspect Ratio Scaling: Supports Crop, Normal, Aspect Stretch and Pixel-to-Pixel display modes.
- Elite Technical Innovation: Hardware-based Taiwan engineering design requires no background PC software.

Specification

Technical Specifications

Parameter	Specification
Model Name	CQ4150K
Product Type	4K HDMI KVM Multi-Viewer Switcher
Technology Architecture	Taiwan Technical Engineering Brand (TAIWAN PANIO)
Core Chipset	Taiwan Realtek high-performance chipsets
Input Interfaces	4 x HDMI, 1 x DisplayPort, 4 x USB KVM Host
Output Interfaces	1 x HDMI, 2 x USB Type-A, 1 x 3.5mm Stereo Audio
Input Video Resolution	HDMI 3 / 4 and DP up to 3840 x 2160 @60Hz; HDMI 1 / 2 up to 3840 x 2160 @30Hz
Supported Output Resolution	3840 x 2160@60Hz, 3840 x 2160@30Hz, 2560 x 1440@60Hz, 1920 x 1080@60Hz, 1280 x 720@60Hz

Parameter	Specification
Display Layouts	Quad split, dual split, PIP and full-screen matrix
Control Methods	IR remote, front panel, keyboard hotkeys and USB mouse roaming
Power Supply	DC 12V external adapter

Interface & Control

Connection Interface

Interface	Description
Input Ports	4 x HDMI IN (Type A), 1 x DisplayPort IN (video only), 4 x USB KVM Host (Type B)
Output Ports	1 x HDMI OUT, 2 x USB Type-A for keyboard / mouse, 1 x 3.5mm stereo audio output
Front Panel	[0] Quad Split; [1]-[4] full-screen PC focus; [Mode] layout loop; [Audio] audio channel; [Resolution] output format.
Keyboard Hotkeys	[*] + [1]-[4] switches PC focus; [*] + [F1]-[F4] selects audio; [*] + [A] USB sync; [*] + [S] mouse roaming.
IR Remote Features	[Source] output format lock; [5] / [6] dual split; [7]-[9] PIP view; volume control by IR remote.

Deployment Notes

- Power Sequence: Connect HDMI and USB upstream cables securely before applying DC power.
- Cable Synchronization: Match each USB upstream cable with the corresponding HDMI input port.
- System Compatibility: Mouse roaming is not designed for NVR / DVR or special industrial IPC USB systems.
- Signal Integrity: Avoid third-party inline adapters, splitters or conversion chains for stable 4K output.

Mechanical & Environmental

Parameter	Specification
Housing	Industrial Grade Metal Enclosure, black
Dimensions	288 mm (W) x 119 mm (D) x 30 mm (H)

Parameter	Specification
Net Unit Weight	750 g
Power Supply	DC 12V External Adapter

Package Contents

- 1 x CQ4150K Hardware Multi-Viewer KVM Switch
- 4 x Premium USB KVM Data Cables
- 1 x Wireless IR Remote Control Unit (Battery not included)
- 1 x Certified DC 12V Power Adapter Block
- 1 x English Technical Instruction Manual

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