CQ1700W

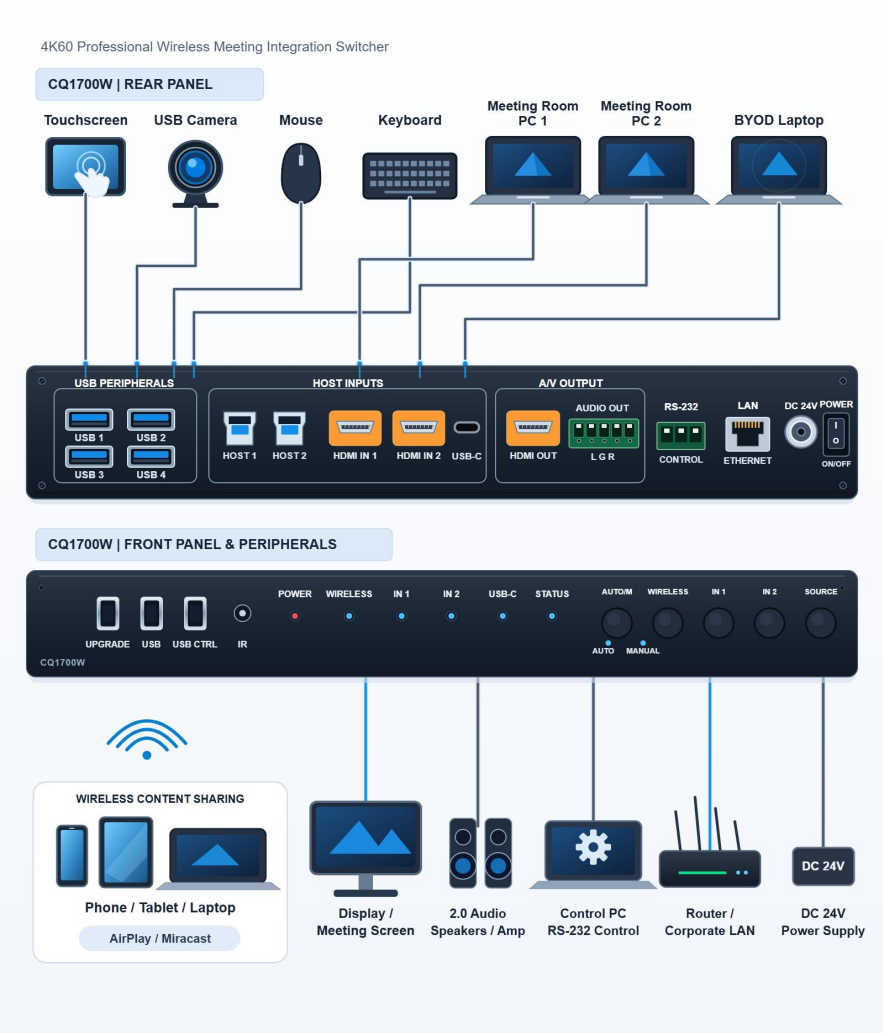
4K60 Wireless Presentation Switcher

4K@60Hz 4:4:4 · 18Gbps · Wireless (AirPlay / Miracast) · USB 3.0 Auto-Follow · 60W PD

Product Overview

PANIO CQ1700W is a professional 4K@60Hz 4:4:4 18Gbps multi-source presentation switcher engineered for modern meeting rooms and smart classrooms. It brings wired HDMI / USB-C and wireless projection together in one compact system.

Four sources — 2×HDMI, 1×USB-C with 60W PD, and wireless — feed a single HDMI display. Four USB 3.0 ports auto-follow the active source, while RS-232 / IR control and Phoenix audio output support professional AV integration.



Key Features

- **4K@60Hz 4:4:4:** 18Gbps bandwidth with HDR and HDCP 2.3 support for crisp text and accurate color.
- **Multi-Platform Wireless:** Native AirPlay (iOS / macOS), Miracast (Android / Windows), USB transmitter and QuickShare App.
- **USB 3.0 Auto-Follow:** 4 USB 3.0-A ports automatically switch to match the active video source.
- **60W USB-C PD:** One USB-C cable carries 4K video, USB data and up to 60W laptop charging.
- **Flexible Control:** Auto FIFO switching, front-panel buttons, IR remote and RS-232 serial commands.
- **Phoenix Audio Out:** Stereo audio de-embedding via Phoenix terminal for amplifiers and sound systems.
- **USB Media Playback:** A FAT32 USB drive with a “Media” folder auto-loops content when idle.
- **EDID Management:** Automatic and manual EDID handling for reliable source-to-display compatibility.
- **Web Management:** Web UI at 192.168.69.1 for wireless settings and OTA firmware updates.
- **Professional Design:** Compact metal chassis built for conference rooms and smart classrooms.

Specification

Parameter	Specification
Model	CQ1700W
Product Type	4K@60Hz wireless presentation multi-source switcher (HDMI / USB-C / wireless to HDMI)
Maximum Resolution	4K@60Hz 4:4:4; 1080p / 720p backward compatible
Bandwidth	18Gbps (HDMI 2.0b)
Standards	HDMI 2.0b / 1.4b, HDCP 1.4 / 2.2 / 2.3, HDR, EDID management
Video Inputs	2 × HDMI + 1 × USB-C (DP Alt Mode) + wireless
Video Output	1 × HDMI
USB	2 × USB 3.0-B upstream + USB-C upstream; 4 × USB 3.0-A downstream auto-follow
Power Delivery	USB-C up to 60W PD for laptop charging
Networking	LAN RJ45; dual-band Wi-Fi AP (SSID: QuickShare-xxxx)

Interface & System Architecture

Interface	Description
Wired Video Inputs	2 × HDMI Type-A female; 1 × USB-C female (DP Alt Mode)
Wireless Input	Integrated wireless module with 3 external high-gain antennas
USB Upstream	2 × USB 3.0 Type-B (tied to HDMI 1 / 2); 1 × USB-C built-in upstream
Video Output	1 × HDMI Type-A female
USB Downstream	4 × USB 3.0 Type-A (auto-follow with the active source)
Audio & Control	1 × Phoenix stereo output; RS-232 (8N1), IR remote, front-panel buttons

Wireless & USB Distribution

- **Exclusive Source Access:** Only the selected video source controls the shared USB 3.0 devices.
- **Distributed Connectivity:** 4 USB 3.0-A ports follow the active source; 3 USB 2.0-A ports serve media and upgrade.

Mechanical & Connection

Parameter	Specification
Dimensions	267.5 × 103 × 27 mm (L × W × H)
Weight	Approx. 0.98 kg
Power Supply	DC 24V / 3A locking adapter; max 72W (incl. 60W PD charging)
Operating / Humidity	0–50°C; 10–90% RH, non-condensing

Package Contents

- **Switcher:** CQ1700W main unit × 1
- **Wireless Antennas:** High-gain omni-directional antennas × 3
- **Accessories:** IR remote × 1; rack mounting brackets × 1 set
- **Power & Docs:** DC 24V / 3A locking adapter × 1; user manual & warranty card × 1

Advanced Functions

- **Wired + Wireless Switching:** Route 2×HDMI, 1×USB-C and wireless sources to one 4K display.
- **One-Cable Laptop:** USB-C delivers 4K video, USB data and 60W charging over a single cable.
- **USB Auto-Follow:** Peripherals connect automatically to the active presenter.
- **Audio & Control Integration:** Phoenix audio out plus RS-232 / IR for room automation systems.

• **Media & Network:** USB media auto-loop playback and 192.168.69.1 web management.

Installation Recommendations

• **Cable Quality:** Use certified 18Gbps HDMI cables for reliable 4K@60Hz 4:4:4 transmission.

• **Wireless Placement:** Position antennas upright and away from large metal obstructions.

• **Thermal Care:** The unit generates heat under 60W PD load; maintain adequate ventilation.

• **Media Format:** USB playback requires FAT32 format with an English “Media” folder.

• **Firmware & Power:** Keep a stable 24V input; never disconnect power during firmware upgrades.