

U5 MINI

Swift Event Controller



Specifications

Change History

Document Version	Release Date	Description
V1.0.0	2026-06-30	First release

Introduction

The U5 MINI is an ultra-compact, high-end event controller developed by PIXELHUE. Specifically designed for small and medium-sized events where space is limited, the U5 MINI delivers fast, intuitive, and precise control through swift layout, highly customizable buttons, flexible control methods, and excellent tactile feedback.

Lightweight and portable, it fits in a backpack and can be set up within a matter of minutes, ideal for freelancers and operators. Small but not simple, the U5 MINI packs all the essential functionalities you need to run a flawless event, putting full show control right at your fingertips.

Adopting a minimalist and completely silent fan-less design, the U5 MINI saves space, consumes less power, relies on less components, and generates 0 noise, reducing costs across the entire lifecycle and leaving a minimal environmental footprint.

Certifications

CE, FCC, IC, RoHS, PSE, KC, CB

If the product does not have the relevant certifications required by the countries or regions where it is to be sold, please contact PIXELHUE to confirm or address the problem. Otherwise, the customer shall be responsible for the legal risks caused or PIXELHUE has the right to claim compensation.

Features

Ultra-compact, Minimal Environmental Footprint

- Compact size, portable, less space occupancy
- Minimalist design, less resource consumption
- High integration, low cost
- Low power consumption
- Fan-less design: silent operation

Modular Design, Fully Customizable Buttons

- Modular design, swift layout for fluid switcher workflows
- Clean, error-resistant button layout
- Two 7-inch LCD screens with a resolution of 1424×280 for intuitive, dynamic display of button functions. The labels on the screen have a one-to-one mapping with each physical button.
- Page up/down buttons, with each page displaying 8 screens/layers/inputs/presets
- 66 function-labelled buttons in total, customizable for flexible configurations. The left-side 32 buttons are used to customize switcher layout. The right-side 8 buttons are fully customizable for event control operations.
- Support multiple button operations: short-press, long-press, and key combination
- 3-color button light for intuitive operational status
- Industrial-grade button feel, quick response
- T-bar or fader version at your choice, allowing fine control of transition effects

Functionality

- One-click control of screens, layers, inputs, presets, and Companion configurations
- Support selecting and activating screens
- Support selecting layers, changing input sources for selected layers, and quick adjustment of selected layers
- Support using inputs, PGW sources, galleries, and BKGs as input sources
- Support saving, overriding, and deleting presets
- Support saving layers as presets and storing the saved presets to switchers
- Support reading and calling presets of controlled switchers
- Seamless transition via Take, Cut, or T-bar; fade in and out supported

Full Compatibility with PIXELHUE Switchers

- Seamlessly controls the entire PIXELHUE switcher lineup, creating a unified and efficient control ecosystem.
- One U5 MINI can control one switcher at a time. The switcher firmware version must be V1.7.0 or later.
- Seamlessly works with PixelFlow software, allowing quick deployment and easy control.
 - Users can connect the U5 MINI to a local PC with PixelFlow installed. Operations on the PC can be synchronized to the U5 MINI.
 - The PixelFlow can automatically discover U5 MINI in the same LAN. Users can also manually search and add U5 MINI.
- The U5 MINI can automatically discover switchers in the same LAN during system startup. Users can manually select which switcher to bind with. If a switcher has been selected before, it will be automatically bound with the U5 MINI during system startup.

Extended Control via Companion

The U5 MINI has built-in Companion compatibility. In addition to PIXELHUE switchers, the U5 MINI can control supported third-party devices via Companion, enabling centralized control workflows. The supported Companion version is V4.2.0 or later.

Reliable Design

- Multiple power options and power backup
 - PoE+
 - Type-C (PD3.0 protocol)
 - DC (12 V)
- Enhanced cooling & durable chassis

The U5 MINI is engineered for high-temperature, dusty, and mobile environments, ensuring stable long-term operation.

Appearance

The U5 MINI offers the T-bar and fader versions. You can choose either version that suits your operational habits and workflows. No matter which version you choose, the front-panel buttons and rear-panel connectors are the same.

Front Panel

- Front panel with T-bar



- Front panel with fader



Rear Panel

- Rear panel with T-bar



- Rear panel with fader



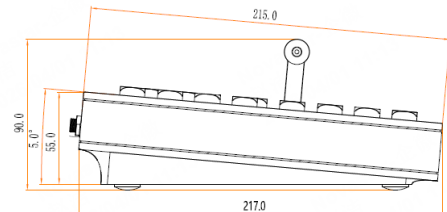
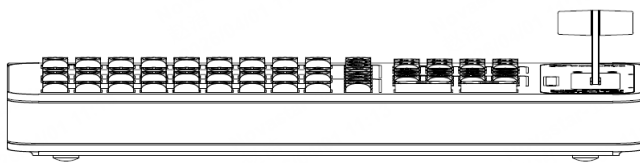
Connector Description

No.	Area	Connector	Qty	Function
1	LAN1/PoE+	Ethernet port	1	One cable for both network transmission and Ethernet power supply. • LAN1: Connects to the switch or router for network communication with the presentation switcher. • Steady green means link is OK. • Green off means no link. • Flickering yellow means communication is OK. • Yellow off means abnormal communication. • PoE+ (IEEE 802.3at): 25.5 W power supply. To use this power supply mode, the switch or router must support PoE+.
2	LAN2	Ethernet port	1	Same as LAN1, except that LAN2 does not provide the PoE+ function. The two Ethernet ports share the same IP address and can work as backup.
3	USB 3.0	USB Type-A	1	• 5 V power supply for a gooseneck lamp • Log export • Connects to 4.5 W storage devices such as single-partitioned USB or portable hard drive. • System recovery
4	Type-C	USB Type-C	1	• Connects to PC for network communication and USB communication. • Connects to third-party devices via Companion.
5	Type-C	USB Type-C	1	Only for 12 V/9 V power supply (PD 3.0 protocol)
6	DC connector	DC power	1	12 V/36 W DC power supply Supports US/EU/UK/AU standard adapters.
7	Power switch	Rocker switch	1	Power on/off switch

* When multiple power sources are connected simultaneously, the device will prioritize the one with the highest voltage.

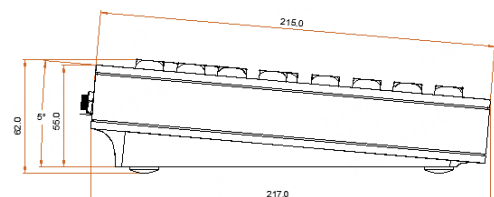
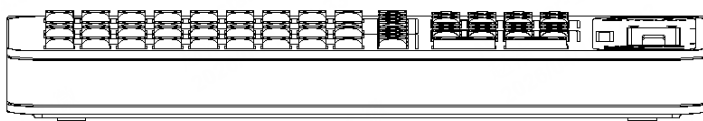
Dimensions

U5 MINI with T-bar



Tolerance: ± 0.5 Unit: mm

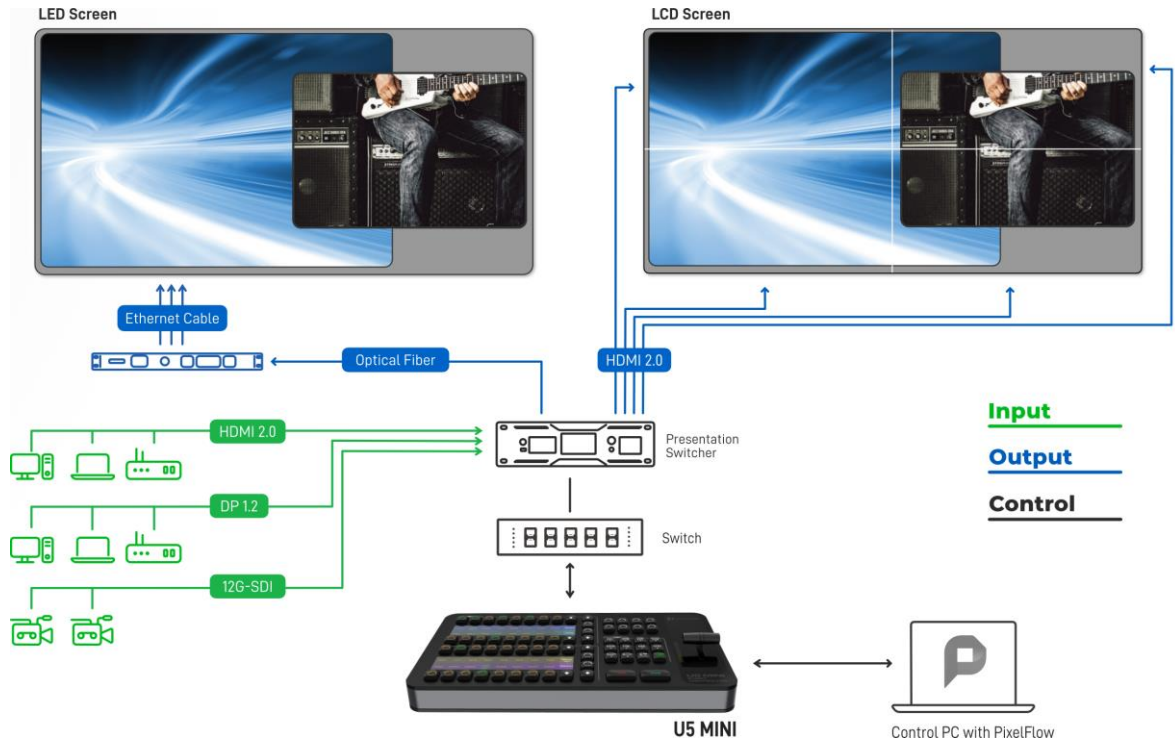
U5 MINI with Fader



Tolerance: ± 0.5 Unit: mm

Applications

The U5 MINI can seamlessly control all PIXELHUE switchers, creating a unified and efficient control ecosystem.



Specifications

Electrical Specifications	Power supply	• PoE+: 25.5 W • Type-C: 12V@2A, 12V@2.5A, 12V@3A, 9V@3A • DC: 12 V/36 W
	Max power consumption	25 W
Operating Environment	Temperature	0°C to 45°C (32°F to 113°F)
	Humidity	5% RH to 85% RH, non-condensing
Storage Environment	Temperature	−20°C to +70°C (−4°F to 158°F)
	Humidity	5% RH to 95% RH, non-condensing
Physical Specifications	Dimensions	• T-bar version: 380 mm × 217 mm × 90 mm • Fader version: 380 mm × 217 mm × 62 mm
	Net weight	• T-bar version: 2.4 kg • Fader version: 2.3 kg
	Gross weight	• Protective case (weight of U5 MINI, accessories, protective case, paper box) – T-bar version: 7.2 kg – Fader version: 7.1 kg • Carrying case (weight of U5 MINI, accessories, carrying case, paper box) – T-bar version: 5.5 kg – Fader version: 5.4 kg
Packing Information	Paper box	495 mm × 420 mm × 200 mm
	Protective case	465 mm × 400 mm × 160 mm
	Carrying case	470 mm × 395 mm × 170 mm
	Accessories	• 1x Power adapter • 1x CAT5E Ethernet cable, 3 m • 1x Type-C cable, 1 m • 1x Protective bag • 2x Foot pads • 1x Gooseneck lamp • 1x Documentation QR Code • 1x Customer Letter • 1x Safety Manual • 1x Certificate of Approval
Noise on Average (Typical at 25°C/77°F)		0 dB

* The amount of power consumption may vary depending on various factors such as product settings, usage, and environment.

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