

**GO 4K**

# 4K Seamless Switcher



**Specifications**

## Change History

Document Version	Release Date	Description
V1.0.0	2025-08-30	First release.

## Introduction

PIXELHUE's GO 4K is a new 4K seamless switcher that includes a 21.5-inch foldable LCD screen for real-time monitoring of input and output signals, layer configuration, and preset settings. Featuring an integrated design with full 4K input and output connectors, this switcher encompasses functionalities such as video processing, image mosaic, transition effects, and multi-screen display. It is ideal for medium to small-scale conferences, exhibitions, shows, and various fixed installations.

The GO 4K excels in signal receiving and processing, supporting up to 10x 4K video inputs, 2x 4Kx2K@60Hz or 4x 4Kx1K@60Hz outputs, 4x AUX outputs, and 1x Multiviewer output. Eight optical fiber ports are also provided, enabling the GO 4K to transmit signals over a long distance without fiber converters.

The GO 4K supports a maximum of 12 layers with features like free layout, layer shadows, borders, masks, and high-performance keying, and can store 8 BKG images for direct panel access. Additional features include fade-in and fade-out transition effects, high-definition image capturing, 45 presets for flexible recalling, test pattern customization, and visualized live view of input and output connector statuses.

Furthermore, the GO 4K is equipped with a 5-inch graphical LCD screen on the front panel, providing efficient and intuitive control, along with striking, colorful illuminated buttons. Paired with a highly sensitive aviation-grade T-Bar that supports 1024-level control, the GO 4K offers precise manual adjustments for preset transitions. This user-friendly design greatly facilitates on-site control.

## Certifications

None.

**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

### Inputs and Outputs

- 10x full 4K inputs
  - 2x 12G-SDI
  - 4x HDMI 2.0
  - 4x DP 1.2/HDMI 2.0 (Only one type of connector can be used at a time)

- Support for 12bit/10bit/8bit video sources
- Genlock synchronization signal input (with loop output)
- HDCP decoding support
- Deinterlacing of SDI video sources
- Dynamic EDID frame rate calculation
- Output capacity switching
  - 4x HDMI 2.0
    - 4K: Two primary and two backup 4K outputs
    - DL: Four primary DL outputs
- 2x 4Kx2K@60Hz or 4x 4Kx1K@60Hz outputs
- 4x concurrent AUX outputs
  - 4x HDMI 1.3 connectors for connecting to auxiliary devices such as teleprompters
- 1x MVR output
  - 1x HDMI 1.3 connector for connecting to a Multiviewer screen to monitor all input sources, PVW, PGM and display the input resolution, frame rate and more
- 10G optical fiber outputs
  - 8x OPT ports for copying the output images of HDMI connectors

## Functionality

- 21.5-inch LCD screen for monitoring
  - 1920x1080p@60Hz resolution
  - The screen can be manually opened and closed, with support for hovering at any angle between 45° and 123°.
- Diverse control options and button layout
  - The GO 4K is equipped with 89 buttons, 1 knob, and 1 T-Bar, providing a wide range of operational options.
  - Combining various control methods such as the buttons, knob, T-Bar, and LCD menu, the GO 4K offers a flexible, convenient, and precise operating experience.
- High-precision output synchronization
- Compatible with EDID on Mac
- Single-screen configuration

By default, the device creates one screen. Connectors 1, 2, 3, and 4 have the same resolution, and manual screen creation is not supported.
- 12x layers
  - Up to 2x MAIN DL layers (or 1x MAIN 4K layer) and 10x PIP DL layers (or 5x PIP 4K layers).
  - Each layer supports cross-connector output.
  - The Z-order of MAIN layers and PIP layers can be adjusted.
  - Input source cropping is supported.
  - MAIN layers support border and shadow. All layers support mask and flip.

- LCD bezel compensation  
Eliminate the visual disruption caused by seams in spliced LCD displays, resulting in a more unified and seamless display.
- Advanced DSK capability  
Smart key, luma key, and chroma key are supported.
- Dynamic range conversion  
Convert input sources to SDR, HDR10, or HLG formats.
- BKG Settings
  - Up to 8 BKGs can be stored.
  - The BKG storage capacity is up to 512 MB.
  - Images can be used as BKG.
  - Images captured from input sources and PGM can be used as BKG.
  - BKG can be turned on or off.
  - BKG can be changed and deleted.
  - The aspect ratio, position and size of BKG can be adjusted.
- Preset recall  
Up to 45 presets can be saved for easy recall.
- Custom test patterns  
Set a test pattern for screen test and problem identification.
- Output connector replacement  
In case of screen mosaic, when a physical connector fails or is damaged, the output connector can be replaced through the software.
- Output connector copying  
Each output connector has a corresponding backup connector which copies the data of the primary connector.
- Input source backup  
You can establish hot backup settings for input sources. If the primary source loses its signal, the system automatically switches to the backup.
- Device backup  
With device backup enabled, when a layer's input source is missing or has no signal, all output connectors for the screen immediately stop signal output, initiating a switch to the backup channel through coordination with the sending and receiving cards.
- Connector status monitoring  
Visualized live monitoring of input and output connector statuses.
- Antistatic settings  
Set the protection duration according to the actual static electricity, ensuring the display remains normal to keep events smooth and successful.
- The system has passed 24/7 stability tests and is proven to be stable and reliable.

**Video Source Specifications**

Input	Bit Depth	Sampling Format	Supported Resolutions	Connector Bandwidth
DP 1.2	8bit	RGB 4:4:4	4096×2160@60Hz	18 Gbps
		YCbCr 4:4:4	8192×1080@60Hz	
		YCbCr 4:2:2		
	10bit	RGB 4:4:4	4096×2160@30Hz	
		YCbCr 4:4:4	4096×1080@60Hz	
		YCbCr 4:2:2	4096×2160@60Hz	
	12bit	RGB 4:4:4	4096×2160@30Hz	
		YCbCr 4:4:4	4096×1080@60Hz	
		YCbCr 4:2:2	4096×2160@60Hz	
HDMI 2.0	8bit	RGB 4:4:4	4096×2160@60Hz	18 Gbps
		YCbCr 4:4:4	8192×1080@60Hz	
		YCbCr 4:2:2		
	10bit	RGB 4:4:4	4096×2160@30Hz	
		YCbCr 4:4:4	4096×1080@60Hz	
		YCbCr 4:2:2	4096×2160@60Hz	
	12bit	RGB 4:4:4	4096×2160@30Hz	
		YCbCr 4:4:4	4096×1080@60Hz	
		YCbCr 4:2:2	4096×2160@60Hz	
12G-SDI	10bit	YCbCr 4:2:2	4096×2160@60Hz	11.88 Gbps

# Appearance

## Front Panel



No.	Area
1	Multiviewer area
2	LCD menu control area
3	LCD
4	Screen area
5	BKG area
6	Layer area
7	Input source area
8	Preset area
9	Function area
10	T-Bar

**Rear Panel**


Name	Qty	Description	
<b>INPUT 1 to 4</b>			
DP 1.2 & HDMI 2.0 (Only one type of connector can be used at a time)			
DP 1.2	4	Resolution	<ul style="list-style-type: none"> <li>• Max resolution: 4096×2160@60Hz/8192×1080@60Hz</li> <li>• Min resolution: 800×600@60Hz</li> </ul>
		Max width/height	<ul style="list-style-type: none"> <li>• Max width: 8192 pixels (8192×1080@60Hz)</li> <li>• Max height: 8186 pixels (1080×8186@60Hz)</li> </ul>
		Frame rates	Up to 240 Hz
		Input sources	Support for processing of 8-bit, 10-bit and 12-bit inputs
		Color/Sample	<ul style="list-style-type: none"> <li>• Support for 4:2:0, 4:2:2 and 4:4:4 inputs</li> <li>• Support for processing of RGB Full and Limited range videos</li> </ul>
		HDR	Not supported
		EDID management	<ul style="list-style-type: none"> <li>• Support for standard resolutions up to 8192×1080@60Hz</li> <li>• Support for custom resolutions</li> </ul>
		HDCP	HDCP 2.2 compliant, backwards compatible
Interlaced signal	Not supported		

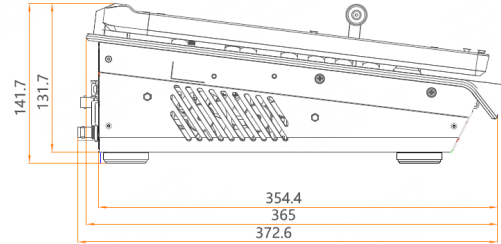
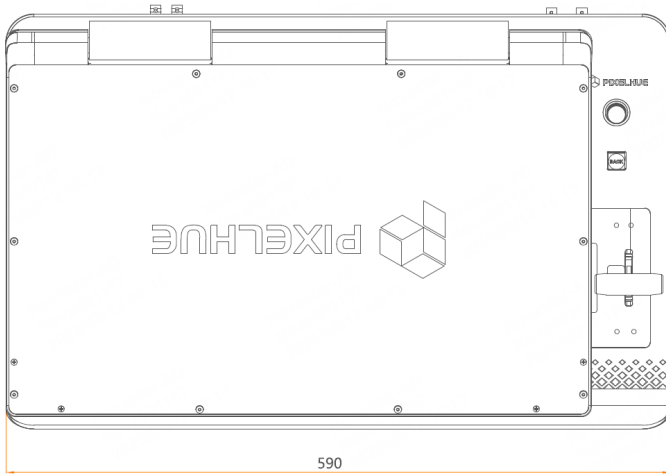
Name	Qty	Description	
HDMI 2.0	4	Resolution	<ul style="list-style-type: none"> <li>• Max resolution: 4096×2160@60Hz/8192×1080@60Hz</li> <li>• Min resolution: 800×600@60Hz</li> </ul>
		Max width/height	<ul style="list-style-type: none"> <li>• Max width: 8192 pixels (8192×1080@60Hz)</li> <li>• Max height: 8186 pixels (1080×8186@60Hz)</li> </ul>
		Frame rates	Up to 240 Hz
		Input sources	Support for processing of 8-bit, 10-bit and 12-bit inputs
		Color/Sample	<ul style="list-style-type: none"> <li>• Support for 4:2:0, 4:2:2 and 4:4:4 inputs</li> <li>• Support for processing of RGB Full and Limited range videos</li> </ul>
		HDR	Supported
		EDID management	<ul style="list-style-type: none"> <li>• Support for standard resolutions up to 8192×1080@60Hz</li> <li>• Support for custom resolutions</li> </ul>
		HDCP	HDCP 2.2 compliant, backwards compatible
		Interlaced signal	Not supported
<b>INPUT 5 to 10</b>			
<b>12G-SDI &amp; HDMI 2.0</b>			
12G-SDI	2	Standard	Support for ST-2082 (12G), ST-2081 (6G), ST-424 (3G), ST-292 (HD) and ST-259 (SD) standard video inputs
		Resolution	Max resolution: 3840×2160@60Hz
		Frame rates	Up to 60 Hz
		HDR	Not supported
		EDID management	Not supported
		Interlaced signal	Supported
HDMI 2.0	4	Resolution	<ul style="list-style-type: none"> <li>• Max resolution: 4096×2160@60Hz/8192×1080@60Hz</li> <li>• Min resolution: 800×600@60Hz</li> </ul>
		Max width/height	<ul style="list-style-type: none"> <li>• Max width: 8192 pixels (8192×1080@60Hz)</li> <li>• Max height: 8186 pixels (1080×8186@60Hz)</li> </ul>
		Frame rates	Up to 240 Hz
		Input sources	Support for processing of 8-bit, 10-bit and 12-bit inputs
		Color/Sample	<ul style="list-style-type: none"> <li>• Support for 4:2:0, 4:2:2 and 4:4:4 inputs</li> <li>• Support for processing of RGB Full and Limited range videos</li> </ul>
		HDR	Supported

Name	Qty	Description	
		EDID management	<ul style="list-style-type: none"> <li>• Support for standard resolutions up to 8192×1080@60Hz</li> <li>• Support for custom resolutions</li> </ul>
		HDCP	HDCP 2.2 compliant, backwards compatible
		Interlaced signal	Not supported
<b>OUTPUT 1 to 4</b>			
<ul style="list-style-type: none"> <li>• 4K: 2 primary and 2 backup connectors. Connectors 1 and 3 work as primary, while connector 2 is backup for connector 1, and connector 4 is backup for connector 3.</li> <li>• DL: 4 primary connectors</li> </ul>			
HDMI 2.0	4	Standard	Support for multiple standard timings such as VESA and CEA
		Resolution	<ul style="list-style-type: none"> <li>• Max resolution: 4096×2160@60Hz/8192×1080@60Hz</li> <li>• Min resolution: 800×600@60Hz</li> </ul>
		Max width/height	<ul style="list-style-type: none"> <li>• Max width: 8192 pixels (8192×1080@60Hz)</li> <li>• Max height: 8186 pixels (1080×8186@60Hz)</li> </ul>
		Frame rates	Up to 240 Hz
		Color/Sample	<ul style="list-style-type: none"> <li>• Support for YCbCr and RGB color space settings</li> <li>• Support for 4:2:2 and 4:4:4 outputs</li> </ul>
		HDR	Supported
		EDID management	<ul style="list-style-type: none"> <li>• Support for standard resolutions, up to 8192×1080@60Hz</li> <li>• Support for custom resolutions</li> </ul>
		HDCP	HDCP 1.4 and HDCP 2.2 compliant
		Interlaced signal	Supported
OPT 1-8	4 groups	8x OPT ports for copying the output images of HDMI 2.0 connectors	
		<b>4K</b> <ul style="list-style-type: none"> <li>• OPT 1 copies the left half of the output image of HDMI 1.</li> <li>• OPT 2 copies the right half of the output image of HDMI 1.</li> <li>• OPT 3 copies the left half of the output image of HDMI 2.</li> <li>• OPT 4 copies the right half of the output image of HDMI 2.</li> <li>• OPT 5 copies the left half of the output image of HDMI 3.</li> <li>• OPT 6 copies the right half of the output image of HDMI 3.</li> <li>• OPT 7 copies the left half of the output image of HDMI 4.</li> <li>• OPT 8 copies the right half of the output image of HDMI 4.</li> </ul>	

Name	Qty	Description
		<b>DL</b> <ul style="list-style-type: none"> <li>• OPT 1 copies HDMI 1.</li> <li>• OPT 2 copies HDMI 1.</li> <li>• OPT 3 copies HDMI 2.</li> <li>• OPT 4 copies HDMI 2.</li> <li>• OPT 5 copies HDMI 3.</li> <li>• OPT 6 copies HDMI 3.</li> <li>• OPT 7 copies HDMI 4.</li> <li>• OPT 8 copies HDMI 4.</li> </ul>
<b>MVR</b>		
HDMI 1.3	1	Multiviewer output connector with a default resolution of 1920×1080 and adjustable frame rate
<b>AUX</b>		
HDMI 1.3	4	AUX output connectors with a default resolution of 1920×1080@60Hz, a maximum resolution of 2048×1152@60Hz, and support for connection of auxiliary devices such as teleprompters
<b>CONTROL</b>		
ETHERNET	2	Gigabit Ethernet ports for control, input view and backup
GENLOCK	1 pair	A pair of Genlock signal connectors. Support Bi-Level and Tri-Level. <ul style="list-style-type: none"> <li>• IN: Accept the sync signal.</li> <li>• LOOP: Loop the sync signal.</li> </ul> For standard Genlock signal generators, up to 10 units of GO 4K can be cascaded.
USB 2.0	1	A type-A USB 2.0 port is provided for updating device firmware, importing and exporting project files, EDID files, BKG files, LOGO files and logs via USB drive.
<b>Power</b>		
100-240V~, 50/60Hz	1	An AC power input connector and rocker switch <ul style="list-style-type: none"> <li>• ON: Power on.</li> <li>• OFF: Power off.</li> </ul>

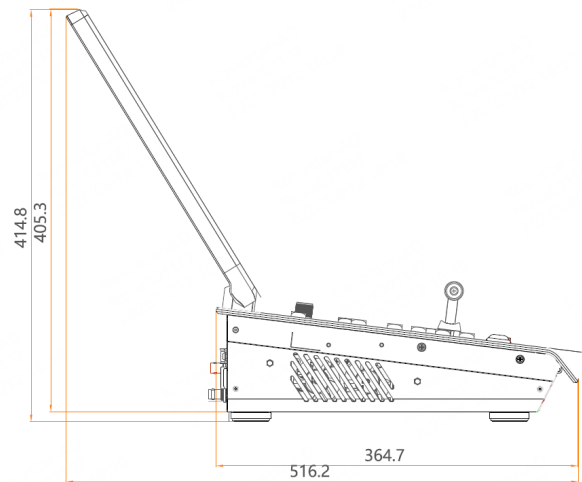
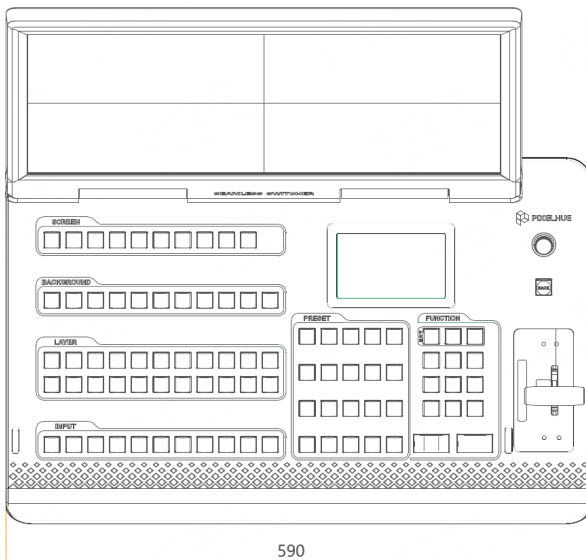
# Dimensions

## Device Dimensions (Closed)



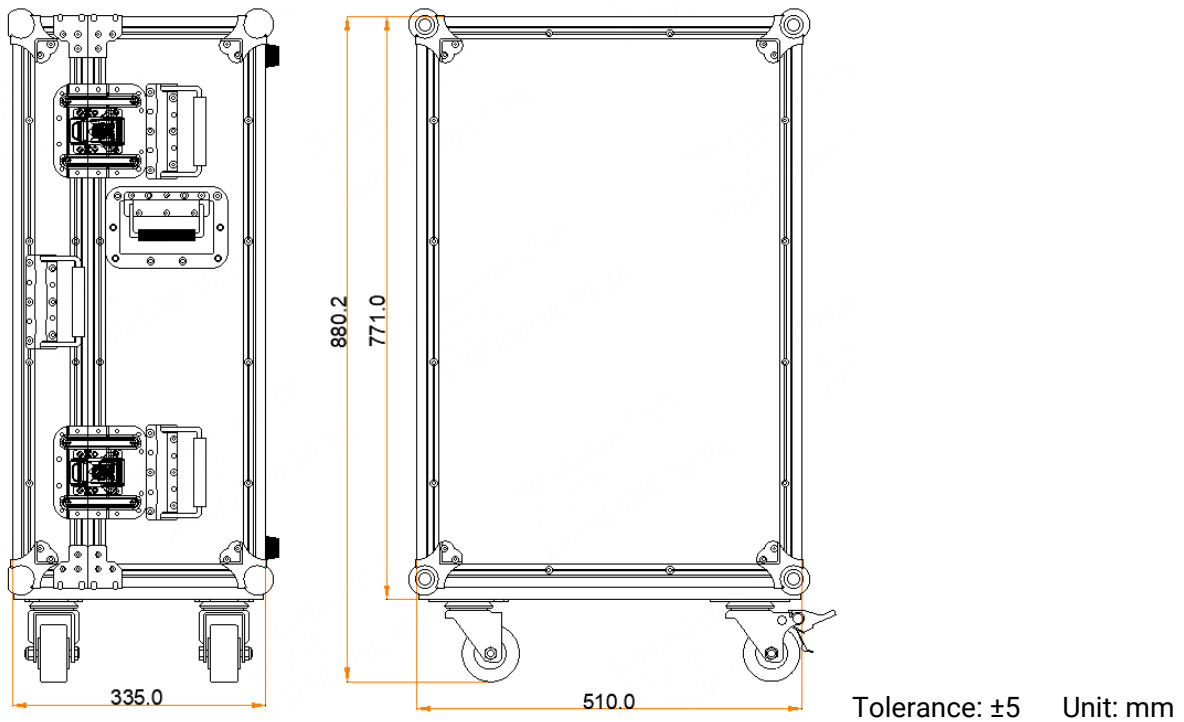
Tolerance:  $\pm 0.5$  Unit: mm

## Device Dimensions (Open)



Tolerance:  $\pm 0.5$  Unit: mm

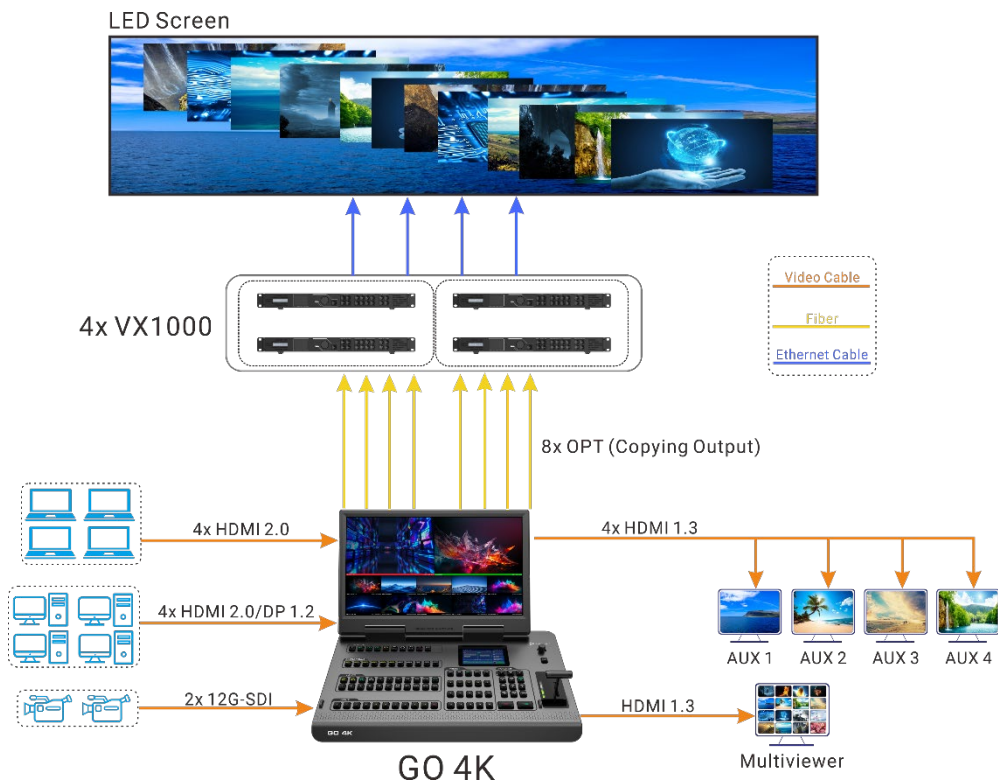
**Flight Case Dimensions**



**Note**

If you require detailed dimensions and drawings of the flight case, please contact PIXELHUE customer service team.

**Applications**



## Specifications

Electrical Specifications	Power input	AC 100-240V~, 2-4A, 47-63Hz
	Max power consumption	195 W
Operating Environment	Temperature	0°C to 45°C
	Humidity	0% RH to 80% RH, non-condensing
Storage Environment	Temperature	-20°C to +60°C
	Humidity	0% RH to 95% RH, non-condensing
Physical Specifications	Dimensions (Closed)	590.0 mm × 372.6 mm × 141.7 mm
	Dimensions (Open)	590.0 mm × 516.2 mm × 414.8 mm
	Net weight	13.0 kg
	Gross weight	42.0 kg Note: It is the total weight of the product, accessories, and packaging materials when packaged in a flight case.
	Flight case	880.2 mm × 510.0 mm × 335.0 mm
	Accessory	1x Power cord, 1x Ethernet cable, 1x HDMI cable, 1x DP cable, 4x optical modules 1x Documentation QR code, 1x Safety Manual, 1x Certificate of Approval, 1x Customer Letter
Noise (typical at 25°C/77°F)	45 dB (A)	

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

## Notes and Cautions

This product can only be placed horizontally. Do not mount vertically or upside-down.

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