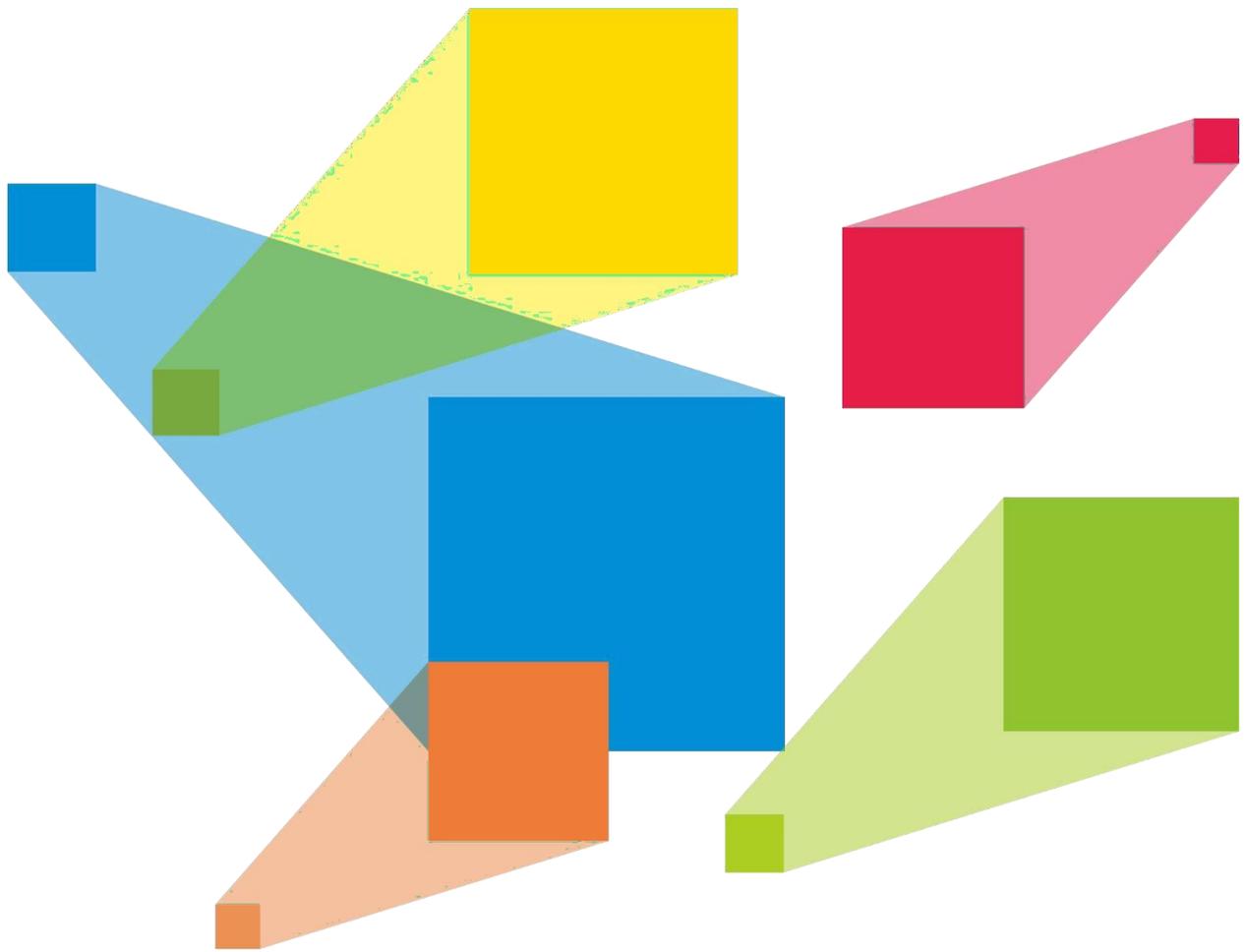


UTA7000

Video controller

V1.0.0



Specification

Introduction

UTA7000 is a 2-in-1 video controller with 16 network port outputs that integrates video processing and video control functions. A single device can carry a maximum of 10.4 million pixels, a maximum width of 16,384 pixels, and a maximum of 8,192 pixels, meeting the requirements of on-site ultra-wide and ultra-high display control.

UTA7000 It has powerful video signal reception and processing capabilities, supports 10bit video processing, supports up to 4K×2K@60Hz video input, and can support up to 6+1 video signal input Features such as 6 independent windows, output screen zoom, point-by-point chromaticity correction, and more provide excellent image display.

UTA7000 Industrial-grade shell, with its powerful video processing and sending capabilities, can adapt to complex operating environments, and is widely used in various large-scale fixed installation occasions such as governments, enterprises and institutions, and military command centers.

Characteristic

- Input
 - 1 x HDMI2.0
 - 1 x DP1.2
 - 4 x HDMI1.3
 - 1 x 3GSDI (IN+LOOP)
- Multiple outputs, large loads

16-channel network port output, maximum load of 10.4 million pixels, a single device output maximum width of 16384, height of 8192
- Support for 3D capabilities.

Cooperate with the 3D emitter EMT200 and matching 3D glasses to achieve 3D display effect. When 3D is enabled, the device output load is halved.
- Audio input and output
 - HDMI, DP support accompanying audio input
 - Support 35mm independent audio input and output
 - Personalized screen zoom is supported

Three picture zoom modes are supported, including point-to-point mode, full-screen zoom, and custom zoom
 - Multi-window display
 - Supports 2 x 4K× 2K+4 x 2K×1K gauges
 - lattice window
 - The window size and position can be adjusted individually
 - The window priority can be adjusted
 - OSD is supported
 - At the same time, it supports the display of 1 OSD screen
 - A maximum of 6 OSDs can be imported and stored

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- Picture OSD and text OSD are supported
 - BKG is supported

BKG does not occupy layer resources, and supports importing BKG with a maximum width of 8192 or a maximum height of 8192
 - Support one-click full-screen zoom
 - Arbitrary interception of input sources is supported
 - EDID management is supported

User-defined EDID and preset EDID are supported
 - Picture quality adjustments

Support output quality management, including brightness, saturation, contrast, and hue adjustment
 - Output support HDR10
 - Multi-scene saving and recall
 - It supports 10 custom scenes, which can be loaded with one click
 - Scenes can be deleted, overwritten, saved, and copied
 - Hot standby
 - Backup between devices is supported
 - Network port backup is supported
 - Powerful video processing capabilities
 - Equipped with SuperView III image quality processing technology, the output image supports stepless scaling
 - Synchronous output

The internal input source can be used as the synchronization source to ensure that the output screen is synchronized
 - Point-by-point chroma correction

With the LCT and correction platform, the brightness and chromaticity of each light point are corrected, effectively eliminating chromatic aberration, making the brightness and chromaticity of the whole screen highly uniform and consistent, and improving the image quality of the display. At the same time, it supports the hardware screen function.
 - Multiple control methods

Supports V-Can, LCT, and device knob operation control
 - Flexible routing

Leaving empty is not counted as loading, there is no rectangular frame limit, and the network port bandwidth is fully utilized
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Product appearance

Front panel

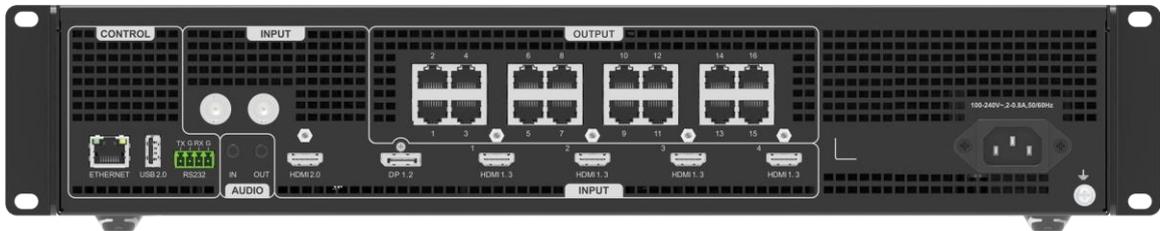


Button	Description
Power switch	Power on or Power off the device
Window control buttons	<ul style="list-style-type: none"> When the window is not open, press the window button to enter the corresponding window properties menu and open the window When the window is open, press the window button to enter the corresponding window properties menu When the window is open, press and hold the window button to turn off the window button light state: The button light is on to indicate that the window is open The button light is off to indicate that the window is closed When the key light flashes, it means that the window is being edited <p>Note: WIN-3 WINDOW, WIN-4 WINDOW, WIN-5 WINDOW, WIN- 6 Windows does not support switching the source to HDMI 20 or DP 12.</p> <ul style="list-style-type: none"> SCALE key: The "full-screen autoscale" shortcut to adaptively fill the lowest-priority and open windows to full screen <ul style="list-style-type: none"> Bright: Auto-zoom is enabled in full screen Not lit: Full-screen autoscale is off
TFT screen	It is used to display the current status of the device, as well as the settings menu
Knob	Select menus, adjust parameters, and confirm actions
Back key	Exit the current menu or cancel the operation
Button	Description

Input source	<p>Input source switch key and input source signal status</p> <ul style="list-style-type: none"> • Bright: There is a signal from the input source • Flickering: The input source has no signal, but is used by the window • Not lit: There is no signal from the input source <p><u>Note:</u> In the main menu interface, when the WIN-1 window is open, you can quickly switch to the source by pressing the input source button.</p>
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Note: Press and hold the knob and back button at the same time for more than 3s to lock or unlock the front panel buttons.

Back panel

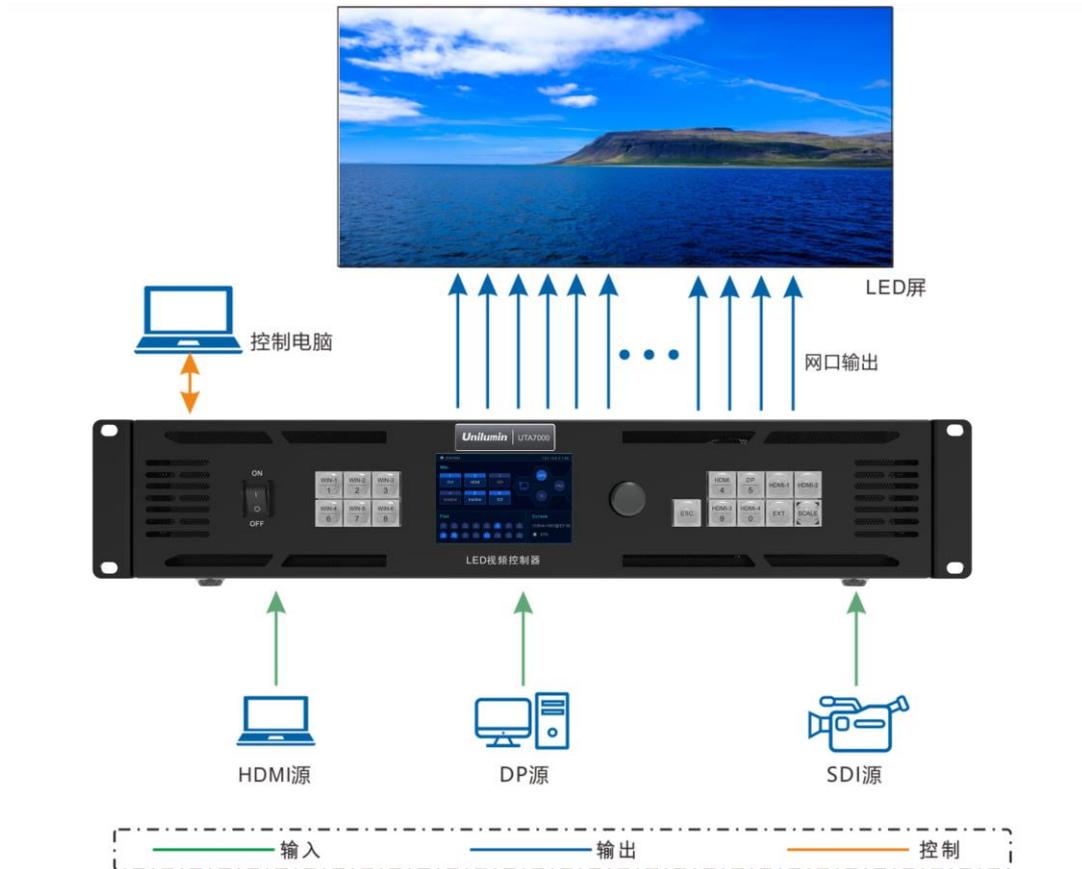


*The product pictures in this article are for reference only, please refer to the actual product purchased.

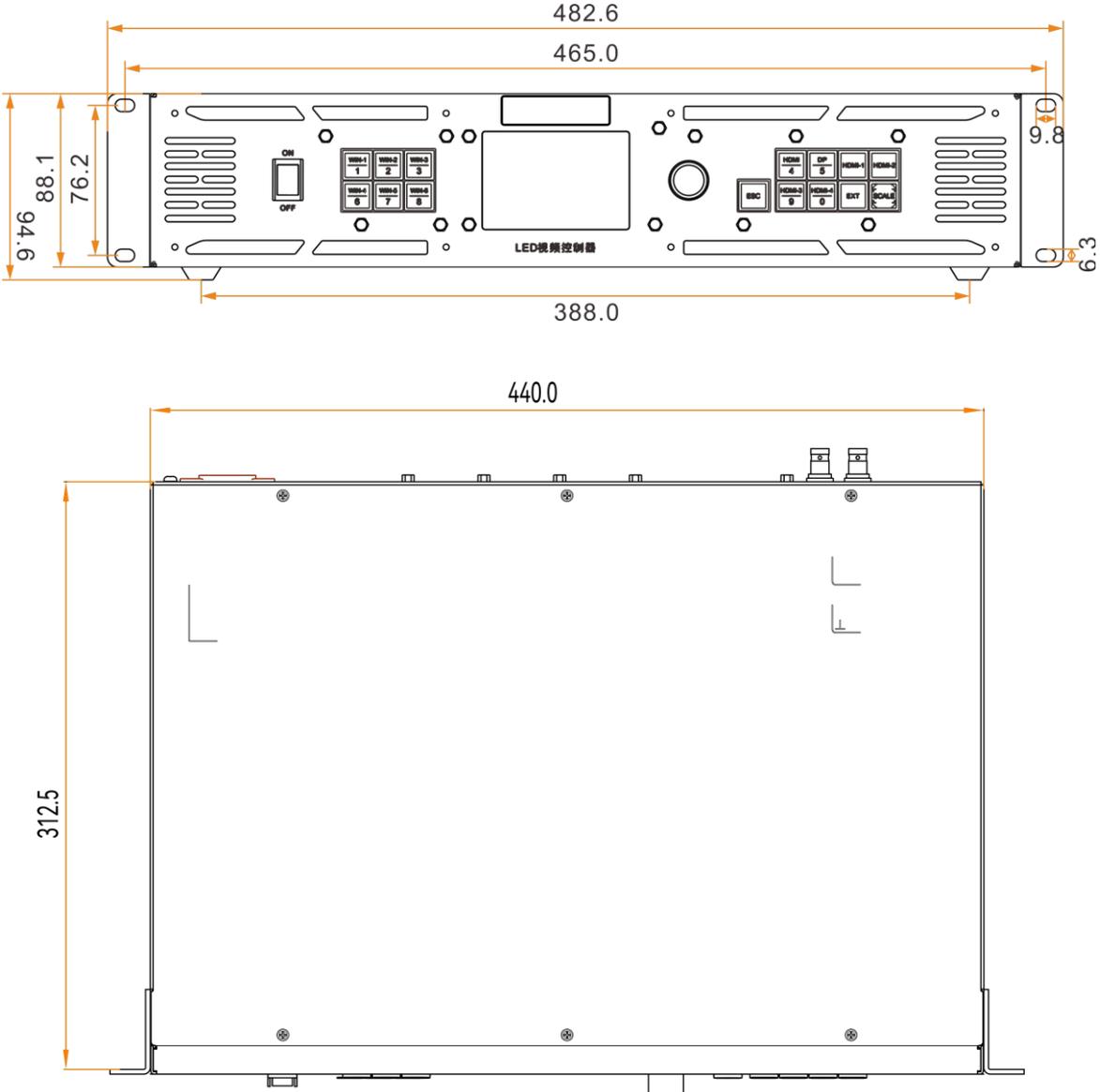
Input interface		
Interface	quantity	Description
HDMI 2.0	1	<p>1xHDMI2.0</p> <ul style="list-style-type: none"> • Maximum input resolution 4K×2K @ 60Hz/8K×1K @ 60Hz • Custom resolutions are supported Limit width: 8192, limit height: 8192 • HDCP 1.4 is supported and HDCP 2.2 • Interlaced signal inputs are not supported • Companion audio is supported
DP1.2	1	<p>1xDP1.2</p> <ul style="list-style-type: none"> • Maximum input resolution 4K×2K @ 60Hz/8K×1K @ 60Hz • Custom resolutions are supported Limit width: 8192, limit height: 8192 • HDCP 1.3 is supported • EDID adjustment is supported • Interlaced signal inputs are not supported • Companion audio is supported
HDMI1.3	4	<p>4xHDMI 1.3</p> <ul style="list-style-type: none"> • The maximum input resolution is 2K×1K @ 60Hz • Custom resolutions are supported Limit width: 2048, limit height: 2048 • HDCP 1.4 is supported • Interlaced signal inputs are not supported • Companion audio is supported

3G-SDI	1	<p>1×3G-SDI input (optional).</p> <ul style="list-style-type: none"> • Supports ST-424 (3G), ST-292 (HD) and ST-259 (SD) Standard Vision Source input • Maximum resolution 1920×1080 @ 60Hz • Input resolution settings are not supported • Interlaced signal input is supported, and deinterlacing is supported • Supports 3G-SDI Loop loop output
AUDIO	2	<p>1× AUDIO input interface, 1× AUDIO output interface</p> <ul style="list-style-type: none"> • 3.5mm standard audio input and output interface: The audio sample rate supports 48kHz
Output interface		
interface	quantity	Description
Ethernet port	16	<p>Gigabit Ethernet output interface</p> <ul style="list-style-type: none"> • The maximum on-load is 10.4 million pixels Limit width: 16384, limit height: 8192 • The maximum load of a single network port is: The input source number is 8 bits, and the output frame rate is 60Hz, 650,000 pixels <p><u>Note:</u> Network port 1 and network port 2 support audio output, and when you use a multifunction card to parse audio, you need to connect the multifunction card to network port 1 or network port 2.</p>
Control interface		
interface	quantity	Description
ETHERNET	1	<p>Connection to the host computer for firmware upgrade:</p> <ul style="list-style-type: none"> • The indicator in the upper left corner of the network port is the indicator of the current network port connection status <ul style="list-style-type: none"> – Solid on: The line connection is normal – Flashing: The line connection is unstable – Not lit: The line is not connected • The indicator in the upper right corner of the network port is the indicator of the current network port communication status <ul style="list-style-type: none"> – Solid on: The network cable is short-circuited – Flashing: The signal is normal and communicating <p>No light: No data transmission</p>
USB	1	Perform a device firmware upgrade via a USB flash drive
RS232	1	Connect the central control device

Application



Dimensions



Tolerance: ±0.3 units: mm

Product Specifications:

Specifications of the whole machine		
Electrical Specifications	Power connector	AC100V~240V50/60Hz
	Power consumption	50W
Working environment	temperature	0°C~50°C
	humidity	0%RH~80%RH, No condensation
Storage temperature	temperature	-20°C~+60°C
	humidity	0%RH~95%RH, No condensation
Physical Specifications	size	482.6mm x 312.5mm x 94.6mm
	net weight	6.4kg
	Total weight	8.9kg
	Noise parameters	41dB(A)
Packaging information	carton	535.0mm x 200.0mm x 430.0mm
	Accessory box	1x power cable, 1xDP cable, 1xHDMI cable, 1x CAT5E cable, 1x screwdriver, 1x certificate, 1x Phoenix terminal
	Large outer box	550.0mm x 215.0mm x 440.0mm

Video source characteristics

Input interface	Bit Depth		Maximum input resolution
HDMI2.0	8bit	RGB4:4:4	3840x2160 @ 60Hz
		YCbCr4:4:4	
		YCbCr4:2:2	
	YCbCr4:2:0		
10bit/12bit	RGB4:4:4	3840x2160 @ 30Hz	
	YCbCr4:4:4		

Input interface	Bit Depth		Maximum input resolution
		YCbCr4:2:2	3840×2160 @ 60Hz
		YCbCr4:2:0	
DP1.2	8bit	RGB4:4:4	3840×2160 @ 60Hz
		YCbCr4:4:4	
		YCbCr4:2:2	
	10bit/12bit	RGB4:4:4	3840×2160 @ 30Hz
		YCbCr4:4:4	
		YCbCr4:2:2	3840×2160 @ 60Hz
HDMI1.3	8bit	RGB4:4:4	1920×1080 @ 60Hz
		YCbCr4:4:4	
		YCbCr4:2:2	
	10bit	RGB4:4:4	1920×1080 @ 60Hz
		YCbCr4:4:4	
		YCbCr4:2:2	
3G-SDI	<ul style="list-style-type: none"> • Maximum input resolution: 1920×1080 @ 60Hz • EDID settings are not supported • Supports ST-424 (3G), ST-292 (HD), and ST-259 (SD) standard video input 		