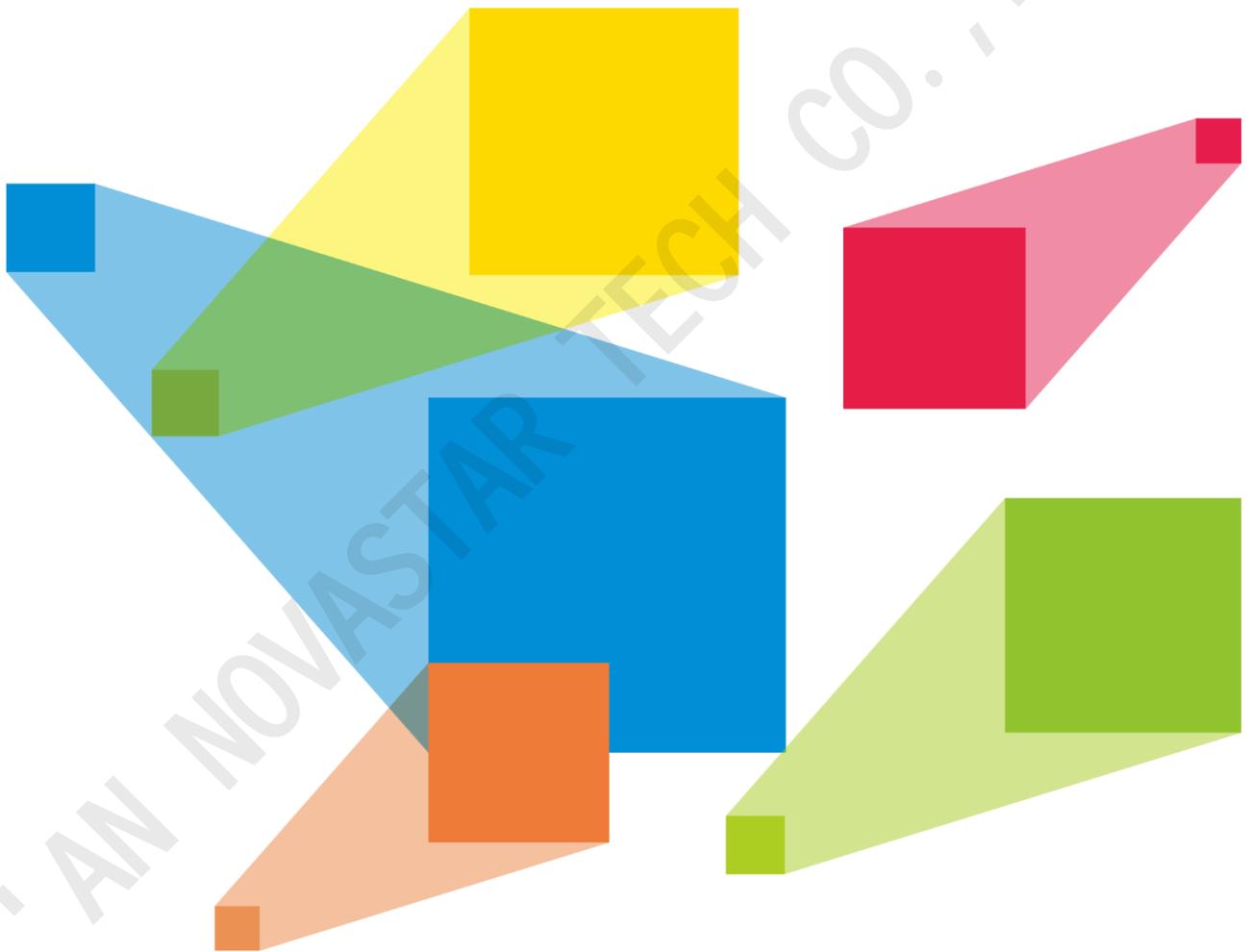


# VC4

## All-in-One Controller



Specifications

## Introduction

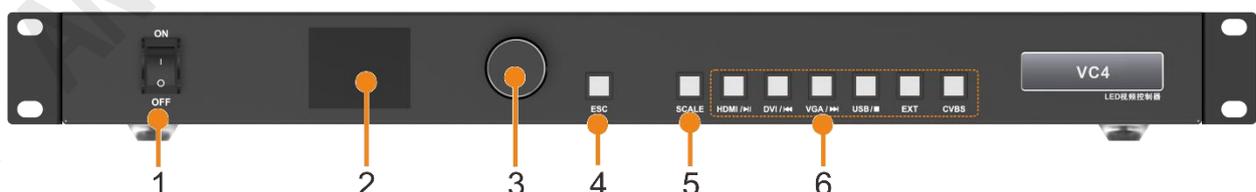
The VC4 all-in-one controller is a pure hardware device that is easy to operate. It features different types of high-definition input connectors, and integrates professional LED screen control technologies and video processing capabilities, making on-site installations effortless. Designed with an industrial-grade casing, the VC4 is well suited for complex operational environments and can be widely used in applications such as malls, hotels, exhibition sites and TV studios.

## Features

- Five input connectors
  - 1x DVI
  - 1x HDMI1.3
  - 1x VGA
  - 1x USB
  - 1x CVBS
- 4x Gigabit Ethernet ports
  - Max. loading capacity: 2.6 million pixels
  - Max. width: 3840 pixels
  - Max. height: 1920 pixels
- Easy screen configuration
  - Quick configuration to easily configure the LED screen
  - LED screen color adjustment, such as brightness and Gamma
- Layer adjustment
  - Adjustable layer position and size, and input cropping supported
  - Personalized image scaling: Full screen, pixel to pixel and custom
  - Press input source buttons to easily switch between the input sources.
- External independent audio
- Input resolution management supported
  - Supports custom and standard input resolutions of the HDMI and DVI connectors.
- Easy preset saving and loading
  - Up to 6 user-defined presets
- Connect to the central control device via RS232 protocol.

## Appearance

### Front Panel



NO.	Area	Function
1	Power button	Power on or power off the device.

NO.	Area	Function
2	LCD screen	Display the current device status and settings menu.
3	Knob	<ul style="list-style-type: none"> <li>• Rotate the knob to select a menu item or adjust the parameter value.</li> <li>• Press the knob to confirm the setting or operation.</li> </ul>
4	ESC button	Exit the current menu or cancel an operation.
5	SCALE	A shortcut button for the full screen function. Press the button to make the layer of the lowest priority fill the entire screen.
6	Input source buttons	<ul style="list-style-type: none"> <li>• Description for input source buttons: <ul style="list-style-type: none"> <li>– HDMI: HDMI input source button When you play the media files saved in the USB drive, this button is used to pause or play the files.</li> <li>– DVI: DVI input source button When you play the media files saved in the USB drive, this button is used to play the previous file.</li> <li>– VGA: VGA input source button When you play the media files saved in the USB drive, this button is used to play the next file.</li> <li>– USB: Reserved button When you play the media files saved in the USB drive, this button is used to stop the playback of the file.</li> <li>– EXT: Reserved button</li> <li>– CVBS: CVBS input source button</li> </ul> </li> <li>• Status LEDs <ul style="list-style-type: none"> <li>– On: An input signal is accessed and used.</li> <li>– Flashing: The input connector is used, but no input signal is accessed.</li> <li>– Off: The input signal is not used.</li> </ul> </li> </ul>

## Rear Panel

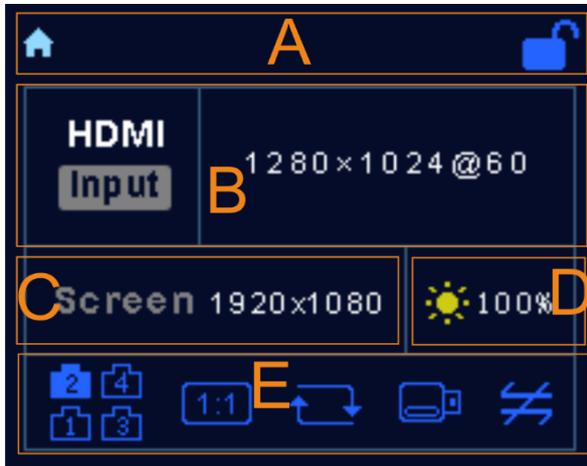


## Input Connectors

Connector	Qty	Description
DVI-D	1	<ul style="list-style-type: none"> <li>• VESA standard video inputs with the resolution of 1920×1080@60Hz</li> <li>• Custom resolutions supported</li> <li>• HDCP 1.4 and EDID 1.4 supported</li> <li>• Interlaced signal inputs supported</li> </ul>
HDMI 1.3	1	<ul style="list-style-type: none"> <li>• HDMI 1.3, VESA standard</li> <li>• Supports 1920×1080@60Hz video inputs.</li> <li>• Custom resolutions supported</li> <li>• HDCP 1.4 and EDID 1.4 supported</li> <li>• Interlaced signal inputs supported</li> </ul>
VGA	1	Input resolution up to 1920x1080@60Hz, downward compatible
CVBS	1	PAL/NTSC standard video inputs
USB (Type A)	1	<p>1x USB 2.0</p> <ul style="list-style-type: none"> <li>• Connect to a USB drive.</li> <li>• 1080p@30fps video files supported</li> <li>• File system: NTFS, FAT32 and FAT16 (supported), exFAT (FAT64) (not supported)</li> <li>• Supported image formats: jpg, jpeg, png and bmp</li> <li>• Supported video coding: MPEG1/2, MPEG4, Sorenson H.263, H.263, H.264 (AVC1), H.265 (HEVC), RV30/40, Divx and Xvid</li> <li>• Supported audio coding: MPEG1/2 Layer I, MPEG1/2 Layer II, MPEG1/2 Layer III, AAC-LC, VORBIS, PCM and FLAC</li> </ul>
AUDIO	2	Analog audio input and output
<b>Output Connectors</b>		
RJ45 Ethernet ports	4	<p>4x Ethernet output connectors</p> <ul style="list-style-type: none"> <li>• Connect to the receiving cards.</li> <li>• Max. loading capacity: 2.6 million pixels</li> <li>• Max. width: 3840 pixels</li> <li>• Max. height: 1920 pixels</li> </ul>
<b>Control Connectors</b>		
ETHERNET (RS232)	1	Connect to the central control device.

USB (Type B)	1	Connect to the control PC for program updating or debugging.
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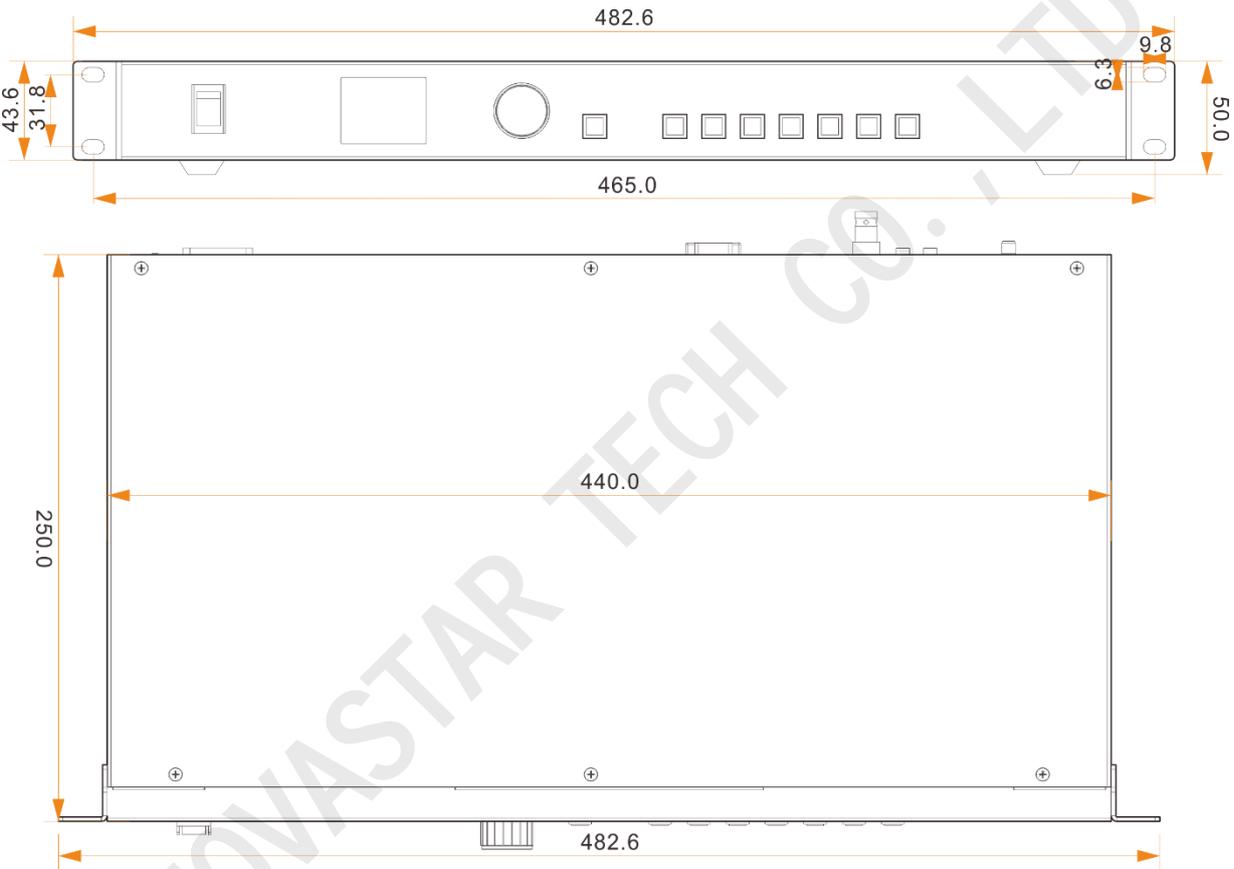
## Home Screen



Area	Icon	Description
A		The device home screen
		The front panel is locked.
B	Input	The input source and resolution
C	Screen	The loaded screen resolution
D		The screen brightness, 0% (black) to 100% (brightest)
E		The Ethernet port is not connected.
		The Ethernet port is connected.
		The Ethernet port serves as the backup output port.
		The function of full screen display is turned on.
		The function of pixel-to-pixel display is turned on.
		The function of custom scaling is turned on.
		Loop playback of a single file (USB playback).
		Play the files in order (USB playback).
		The USB drive is not inserted.

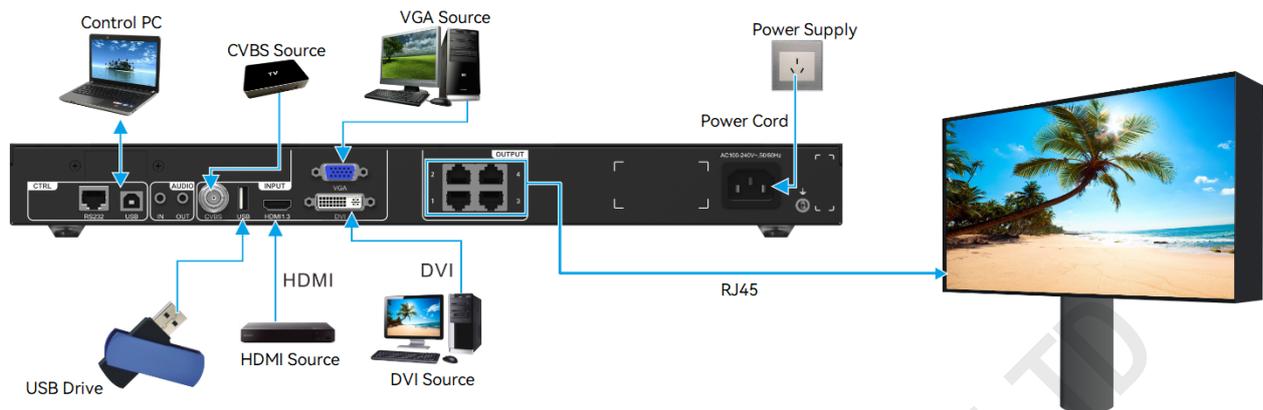
Area	Icon	Description
		The USB drive is inserted.
		The device is connected to the control PC via a USB port.
		The device is not connected to the control PC.

**Dimensions**



Tolerance: ±0.3 Unit: mm

## Applications



## Specifications

Overall Specifications		
Electrical Parameters	Power connector	AC 100-240V~ , 50/60Hz
	Rated power consumption	25 W
Operating Environment	Temperature	-20°C to +60°C
	Humidity	20% RH to 90% RH, non-condensing
	Storage humidity	10% RH to 95% RH, non-condensing
Physical Specifications	Dimensions	482.6 mm × 250.0 mm × 50.0 mm
	Net weight	2.82 kg
	Total weight	5.1 kg
Packing Information	Packing box	565 mm× 328 mm × 88 mm
	Accessories	1x Power cable, 1x USB cable, 1x DVI cable, 1x HDMI cable, 1x Certificate of Approval
	Large Outer Case	586 mm × 353 mm × 113 mm
Noise Level (typical at 25°C/77°F)		38 dB (A)

## Video Source Features

Input Connectors	Bit Depth		Max. Input Resolution
HDMI 1.3	8bit	RGB4:4:4	1920×1080@60Hz
		YCbCr4:4:4	
		YCbCr4:2:2	
		YCbCr4:2:0	Not supported
	10bit	RGB4:4:4	1920×1080@60Hz
		YCbCr4:4:4	
		YCbCr4:2:2	
		YCbCr4:2:0	Not supported
	12bit	RGB4:4:4	Not supported
		YCbCr4:4:4	
		YCbCr4:2:2	
		YCbCr4:2:0	
DVI	8bit	RGB4:4:4	1920×1080@60Hz