

DS80 Pro

8K Port Processor



Specifications

Change History

Document Version	Release Date	Description
V1.0.0	TBD	First release

Introduction

The DS80 Pro is an 8K port processor developed by NovaStar. It features 1x 8K HDMI 2.1 or DP 1.4 input and 4x 4K HDMI outputs, which can readily work with 8K monitors and 8K LED displays.

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 NovaStar to confirm or address the problem. Otherwise, the customer shall be responsible for the legal risks caused or NovaStar has the right to claim compensation.

Features

Inputs and Outputs

- 1x 8K HDMI 2.1 or DP 1.4 input
- 4x 4K HDMI outputs
 - 3840x2160@50/60Hz, 8bit, RGB/YUV444/YUV422
 - 3840x2160@50/60Hz, 10bit, YUV422

Video Sources

Input	Bit Depth	Sampling Format	Max Input Resolution
HDMI 2.1	8bit	RGB 4:4:4	7680x4320@60Hz
		YCbCr 4:4:4	
		YCbCr 4:2:2	
		YCbCr 4:2:0	
	10bit	RGB 4:4:4	7680x4320@60Hz
		YCbCr 4:4:4	
		YCbCr 4:2:2	
		YCbCr 4:2:0	
	12bit	RGB 4:4:4	7680x4320@60Hz
		YCbCr 4:4:4	
		YCbCr 4:2:2	
		YCbCr 4:2:0	

Input	Bit Depth	Sampling Format	Max Input Resolution
DP1.4	8bit	RGB 4:4:4	7680×4320@30Hz
		YCbCr 4:4:4	
		YCbCr 4:2:2	
		YCbCr 4:2:0	
	10bit	RGB 4:4:4	7680×4320@30Hz
		YCbCr 4:4:4	
		YCbCr 4:2:2	
		YCbCr 4:2:0	

Appearance

Front Panel



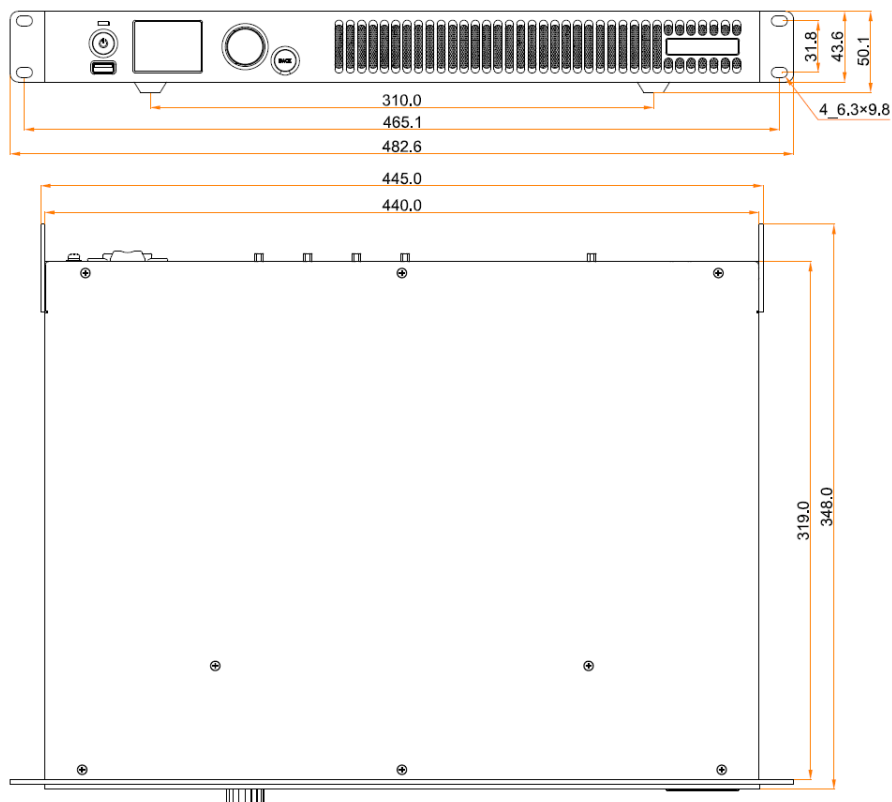
Name	Description
Standby Button	<ul style="list-style-type: none"> Press the button to power on or power off the device. Hold down the button for 5s or longer to restart the device.
Running Indicator	<ul style="list-style-type: none"> Flashing red: Standby Solid red to solid blue: The device is being powered on. Solid green: The device is running normally.
USB 2.0	Used to upgrade firmware and export backup files (reserved)
TFT screen	Display the device status, menus, submenus and messages for parameter settings.
Knob	<ul style="list-style-type: none"> On the home screen, press the knob to enter the main menu screen. On the main menu screen, rotate the knob to select a menu item or adjust the parameter value. Press the knob to confirm the operation. Hold down the knob and BACK button simultaneously for 5s or longer to lock or unlock the buttons.
BACK	Go back to the previous menu or cancel the current operation.

Rear Panel



Inputs (INPUT area)		
Type	Qty	Description
HDMI 2.1	1	<ul style="list-style-type: none"> • Max resolution: 7680x4320@60Hz • Support common standard resolutions, up to 7680x4320@60Hz. • Supported frame rates: 24/25/30/48/50/60/72/75/90/96/100/120 Hz • Support the HDR function. • HDCP 2.2 compliant, backwards compatible with HDCP 1.4 • Support 48 kHz dual channel audio transmission.
DP 1.4	1	<ul style="list-style-type: none"> • Max resolution: 7680x4320@30Hz • Support common standard resolutions, up to 7680x4320@30Hz. • Supported frame rates: 24/25/30/48/50/60/72/75/90/96/100/120 Hz • Support the HDR function. • HDCP 2.2 compliant, backwards compatible with HDCP 1.4 • Support 48 kHz dual channel audio transmission.
Outputs (OUTPUT area)		
Type	Qty	Description
HDMI 2.0 (1–4)	4	4x HDMI outputs
SPDIF	1	A digital audio output (reserved)
AUDIO	1	An audio output
Controls (CONTROL area)		
Type	Qty	Description
USB	1	A type-B USB control port to connect to the control PC for firmware update
ETHERNET	1	An Ethernet control port to connect to the control PC for firmware update
Power		
100-240V~, 50/60Hz, 1.5A	1	An AC power input connector and switch

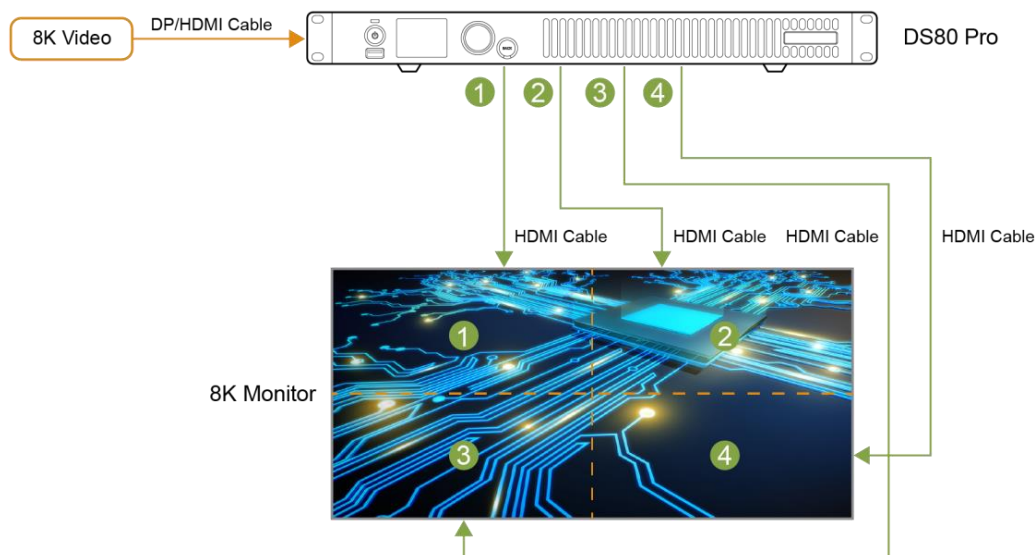
Dimensions



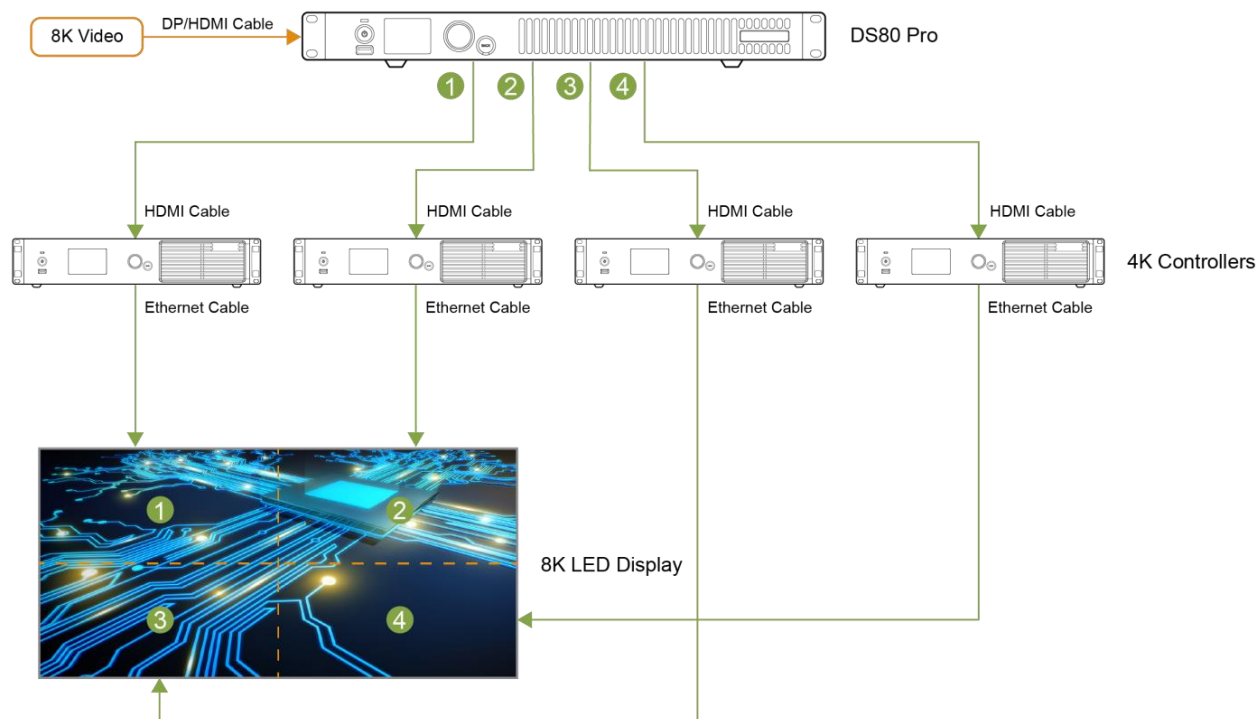
Tolerance: ± 0.3 Unit: mm

Applications

Work with an 8K Monitor



Work with an 8K LED Display



Specifications

Electrical Specifications	Power input	100-240V~, 50/60Hz, 1.5A
	Max power consumption	35 W
Operating Environment	Temperature	-20°C to +50°C
	Humidity	10% RH to 90% RH, non-condensing
Storage Environment	Temperature	-20°C to +70°C
	Humidity	10% RH to 90% RH, non-condensing
Physical Specifications	Dimensions	482.6 mm × 50.1 mm × 348.0 mm
	Net weight	4.1 kg
	Gross weight	5.6 kg Note: It is the total weight of the product, accessories and packing materials packed according to the packing specifications.
Packing Information	Carrying case	545.0 mm × 145.0 mm × 425.0 mm, kraft paper box
	Packing box	565.0 mm × 175.0 mm × 450.0 mm, kraft paper box
	Accessories	<ul style="list-style-type: none"> • 1x Power cord • 1x USB cable • 5x HDMI cables • 1x Certificate of Approval
IP Rating	IP20	

	Please prevent the product from water intrusion and do not wet or wash the product.
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The amount of power consumption may vary depending on various factors such as product settings, usage, and environment.

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