

X26m

LED Video Controller

Specification v1.0





Overview

X26m is an LED video controller with powerful signal receiving and processing abilities, effectively meeting the needs of different scenarios. It supports 4K and 2K video signal inputs, with a capacity of up to 17.03 million pixels, and features 2 types of output ports - Ethernet and optical fiber. In addition, the device boasts abundant practical functions that enable flexible screen control and high-quality image display, making it ideal for various applications.

Features

Input

- Maximum 4096x2160@60Hz.
- 4K input interface: 1×DP1.2, 1×HDMI2.0.
- 2K input interface: 2×HDMI1.4, 2×DVI.
- 1× U-disk interface.

Output

- Up to 17.03 million pixels load capacity.
- 26× Gigabit Ethernet ports and 3× 10 Gigabit optical fiber ports (Choose either Ethernet port or optical port)

Audio

- 1×3.5mm independent input.
- 1×3.5mm independent output.
- Supports HDMI & DP audio decoding and output.

Functions

- / Up to 6 windows, supports window overlapping.
- Window roaming and free scaling, with a minimum window size of 64×64 .
- Free cropping and seamless switching of video signal, with a minimum window size of 64×64.
- Adjusting color gamut with Precise Color Management (Requires receiving card support.)
- Genlock synchronization, supporting locking internal vsync, input source, and automatic Genlock (according to layers).



- Supports brightness and precise color temperature adjustment.
- Supports 3D display (Accessories need to be purchased separately.)
- Improving grayscale performance with Better Grayscale at Low Brightness.
- Easy saving and loading of 128 preset scenes.
- Supports playback and upgrade via USB drive.
- Supports bluetooth remote controller (Optional).

Control

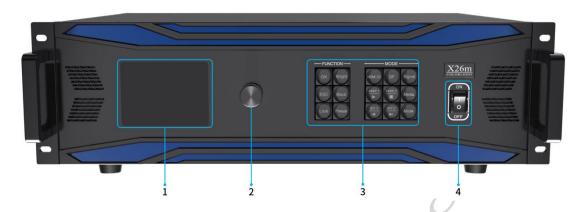
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Appearance

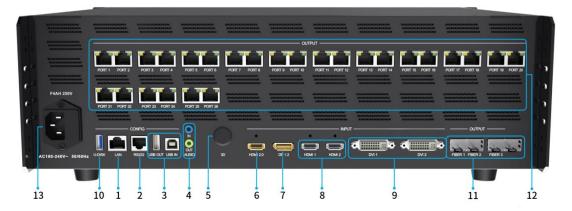
Front panel



No.	Item	Function		
1	LCD	Display the operation menu and system information.		
2	Knob	 Press the knob to enter submenu or confirm selection. Rotate the knob to select menu item or adjust parameters. 		
3	Function key			
4	Power button	Switch On / Off.		



Rear panel



Cor	ntrol				
1	LAN	RJ45 port, connect to a switch for accessing local area network.			
2	RS232	RJ11 port(6P6C), connect to central control.			
3	USB IN	USB2.0 Type B port, connect to a PC for debugging or cascading input.			
	USB OUT	USB2.0 Type A port, as cascading output.			
Auc	Audio				
	AUDIO IN	Interface type: 3.5mm.Receive audio signals from computers and other equipment.			
4	AUDIO OUT	 Interface type: 3.5mm. Support HDMI, DP audio decoding and output audio signals to devices such as active speakers. 			
3D	3D				
5	3D*(Optional)	Output 3D sync signal (Use with active 3D glasses.)			
Inp	Input				
6	HDMI 2.0	 1× HDMI2.0 input, supports HDMI1.4/HDMI1.3. Maximum 4096×2160@60Hz, Minimum 800×600@60Hz, Maximum pixel clock 600MHz. Custom resolution: 			



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		- Maximum 8192 (8192×1080@60Hz) in width.		
		- Maximum 8192 (1080×8192@60Hz) in height.		
		Support independent EDID settings, using EDID V1.3 standard.		
		Support audio input.		
		HDR not supported.		
		De-interlaced signal input not supported.		
		• 1× DP1.2 input.		
		• Maximum 4096×2160@60Hz, Minimum 800×600@60Hz,		
		Maximum pixel clock 600MHz.		
		Custom resolution:		
		- Maximum 8192 (8192×1080@60Hz) in width.		
7	DP 1.2	- Maximum 8192 (1080×8192@60Hz) in height.		
		Support independent EDID settings, using EDID V1.3 standard.		
		Support audio input.		
		HDR not supported.		
		De-interlaced signal input not supported.		
		• 2× HDMI1.4 inputs.		
		• Maximum 1920×1200@60Hz, Minimum 800×600@60Hz,		
		Maximum pixel clock 165MHz.		
		Custom resolution:		
		- Maximum 4096 (4096×512@60Hz) in width.		
8	HDMI 1, HDMI 2	- Maximum 4096 (512×4096@60Hz) in height.		
		Support independent EDID settings, using EDID V1.3 standard.		
		HDCP1.4 compliant, backwards compatible.		
		Support audio input.		
		De-interlaced signal input not supported.		
	0	• 2× DVI inputs.		
		• Maximum 1920×1200@60Hz, Minimum 800×600@60Hz,		
		Maximum pixel clock 165MHz.		
		Custom resolution:		
9	DVI 1, DVI 2	- Maximum 4096 (4096×512@60Hz) in width.		
	,	- Maximum 4096 (512×4096@60Hz) in height.		
		Support independent EDID settings, using EDID V1.3 standard.		
		HDCP1.4 compliant, backwards compatible.		
		De-interlaced signal input not supported.		
		- De-intertaced signat input not supported.		



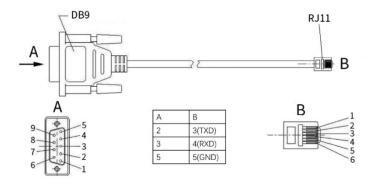
		xzom specification	
		U-disk interface, supporting video / image playback from U-disk.	
		• USB flash drive formats: NTFS, FAT32, exFAT.	
		• Image format: JPEG, PNG, WEBP, GIF, BMP.	
		Image resolution:	
		- Maximum 4096×2160@60Hz.	
		• Video file: 3GP, AVI, FLV, M4V, MKV, MP4, TP, TS, VOB, WMV,	
		MPEG.	
10	II DICK	- Video encoding: MPEG-1 / 2, MPEG-4, H.264 / AVC, H.265 /	
10	U-DISK	HEVC, GOOGLE VP8, MOTION JPEG.	
		- Audio encoding: MPEG Audio, Windows Media Audio, AAC	
		Audio, AMR Audio.	
		Video resolution:	
		- Maximum 4096×2160@60Hz (Formats: H.264/AVC, MVC,	
		H.265/HEVC).	
		- Maximum 1920×1080@60Hz (Formats: MPEG-1/2, MPEG-4,	
		GOOGLE VP8, VC-1).	
Out	Output		
		• 3× 10G Optical fiber ports.	
		- FIBER 1 corresponds to PORT 1-10 Gigabit Ethernet ports	
		output.	
	FIBER 1	- FIBER 2 corresponds to PORT 11-20 Gigabit Ethernet ports	
		output.	
11	FIBER 2	- FIBER 3 corresponds to PORT 21-26 Gigabit Ethernet ports	
	FIBER 3	output.	
		It needs to be used with 10G single-mode optical module	
		(purchase separately); supports dual LC fiber interfaces;	
		wavelength 1310nm; transmission distance 2 km.	
		* The rightmost fiber port is reserved and does not serve any functional purpose.	
	PORT 1-26	• 26× 1G Gigabit Ethernet ports.	
		Load capacity:	
10		- Per port: 655,360 pixels; Total load capacity: 17.03 million	
12		pixels.	
		- Output 8bit@60Hz: 650,000 pixels.	
		- Output 8bit@120Hz: 320,000 pixels.	



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		- Output 8bit@240Hz: 160,000 pixels.		
		- Maximum width 16,384 pixels, maximum height 8,192 pixels.		
		• The recommended maximum cable (CAT5e) run length is 100		
		meters.		
		Supports redundant backup.		
Power				
13	MAINS INPUT	AC100-240V, 50 / 60Hz, connect to AC power supply, built-in fuse.		

^{*} The illustration is for reference only. Actual hardware configuration and production processes may cause differences. Please refer to the actual product.

* RJ11 (6P6C) to DB9 cable:





Signal Formats

HDMI2.0	0				
Input	Color space	Sampling	Color depth	Max. resolution	Frame rate
4K	YCbCr	4:2:2	8bit	4096×2160@60Hz	23.98,30,50,59.94,60
4K	YcbCr/RGB	4:4:4	8bit		
2K	YCbCr	4:2:2	8bit	1920×1200@60Hz	23.97,24,30,50,59,94,
ZN	YcbCr/RGB	4:4:4	8bit		60,100,120,144
ш	YCbCr	4:2:2	8bit	1200 × 1200 © COLL-	23.97,24,30,50,59,94,
HD	YcbCr/RGB	4:4:4	8bit	1280×1200@60Hz	60,100,120,144,240
DP1.2					
Input	Color space	Sampling	Color depth	Max. resolution	Frame rate
417	YCbCr	4:2:2	8bit	4096×2160@60Hz	23.98,30,50,59.94,60
4K	YCbCr/RGB	4:4:4	8bit		
2K	YCbCr	4:2:2	8bit	1920×1200@60Hz	23.97,24,30,50,59,94,
ZN	YcbCr/RGB	4:4:4	8bit		60,100,120,144
Ш	YCbCr	4:2:2	8bit	1280×1200@60Hz	23.97,24,30,50,59,94,
HD	YcbCr/RGB	4:4:4	8bit		60,100,120,144,240
DVI					
Input	Color space	Sampling	Color depth	Max. resolution	Frame rate
21/	YCbCr	4:2:2	8bit	1920×1200@60Hz	29.97,59.94,30,50,60
2K	YCbCr/RGB	4:4:4	8bit		
HDMI1.4					
Input	Color space	Sampling	Color depth	Max. resolution	Frame rate
21/	YCbCr	4:2:2	8bit	1920×1200@60Hz	29.97,59.94,30,50,60
2K	YCbCr/RGB	4:4:4	8bit		

^{*} The above shows only some of the standard resolutions.



Specifications

Dimensions (W×H×D)				
Device	482.6mm (19") × 133.3mm (5.3") × 385.0mm (15.2") (No foot pads.)			
Packing	560.0mm (22.1") × 240.0mm (9.5") × 480.0mm (18.9")			
Weight	Weight			
Net	6.25kg (13.78lbs)			
Gross	8.95kg (19.73lbs)			
Electrical paramet	Electrical parameters			
Power supply	AC100-240V~, 2.1A, 50/60Hz			
Rated power	80W			
Operating environ	Operating environment			
Temperature	-20°C~50°C (-4°F~122°F)			
Humidity	0%RH~80%RH, non-condensing			
Storage environment				
Temperature	-30°C~80°C (-22°F~176°F)			
Humidity	0%RH~90%RH, non-condensing			
Certifications				

CE, FCC, IC, UKCA.

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



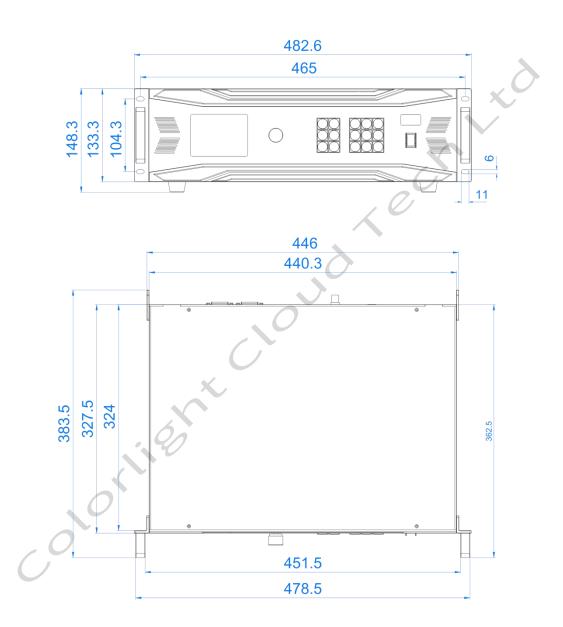
Applications





Reference Dimensions

Unit: mm



Statement

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