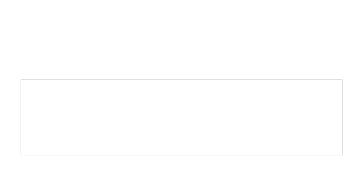


X20 Controller

Specification V1.1



Overview

X20 is a controller possessing powerful video signal input and processing capacity. It supports 4K inputs with DP 1.4 and HDMI 2.0 connectors, and 2K inputs with HDMI 1.4 and DVI connectors, and the multiple signals can be seamlessly switched. A single unit features a loading capacity of 13 million pixels, with 16384 pixels in maximum width or 8192 pixels in maximum height. Equipped with 20 Gigabit Ethernet ports and 2 10G optical fiber ports, X20 is able to meet the need of different clients. Additionally, X20 boasts abundant practical functions that enable flexible screen control and high-quality image display.

Features

- Input connectors: $1 \times DP$ 1.4, $1 \times HDMI$ 2.0, $2 \times HDMI$ 1.4, $2 \times DVI$
- Loading capacity: 13 million pixels, maximum width: 16384 pixels, or maximum height: 8192 pixels
- Input resolution: up to 4096×2160@60Hz, supporting customized setting
- Output connectors: 20 × Gigabit Ethernet port, 2 × 10G optical fiber port
- Supports video source switching, cropping, splicing and scaling
- Supports up to 6 windows, of which the location and size can be freely adjusted
- Supports precise color management and display gamut adjustment
- Supports video sync
- Separate audio input and output
- Support RS232 protocol control
- Support HDCP
- Brightness and color temperature adjustment
- Better gray at low brightness

Hardware

Front Panel



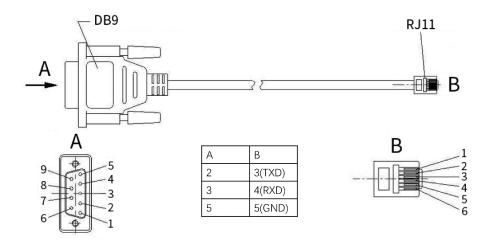
No.	Item	Function	
1	LCD	Display the operation menu and system information	
2	Knob	Turn the knob to select an item or adjust the parameter;	
2		press the knob to confirm your selection or adjustment	
3	Function Key	OK: Enter key	
		Bright: Brightness adjustment	
		ESC: Exit the current menu or operation	
		Black: Blackout	
		Lock: Lock all the keys of the front panel	
		Freeze: Freeze the image	
	Mode Key	HDMI 2.0/DP 1.4/3/HDMI1/HDMI2/DVI1/DVI2: Video source	
		selection keys, which function as number selection keys in	
4		mode selection	
		Signal: View the signals	
		Mode: Output mode selection	
5	Power Switch	Switch the device on or off	

Back Panel



Input		7 ()			
1	HDMI 2.0	1×HDMI 2.0			
2	DP 1.4	1×DP 1.4			
3	HDMI1, HDMI2	2×HDMI 1.4			
4	DVI1, DVI2	2×DVI			
Output	Output				
1	Port 1-20	RJ45, 20×Gigabit Ethernet port			
2	Fiber1 Fiber2	Dual LC, 2×10G optical fiber port			
Control	Control				
1	RS232	RJ11(6P6C)*, used to communicate via 3 rd party interfaces			
2	USB OUT	USB output, for cascading with the X20 controller			
3	USBIN	USB input, connecting to PC for debugging			
Audio	Audio				
1	AUDIO IN	Audio input, for inputting audio signals from the computer or other devices			
2	AUDIO OUT	Audio output, for outputting audio signals to the speaker (Support outputting the audio signals of HDMI and DP)			
Powers	Power supply				
1	AC 100~240V	AC power connector, containing a built-in fuse			

*DB9 female to RJ11(6P6C) cable:



Device Specifications

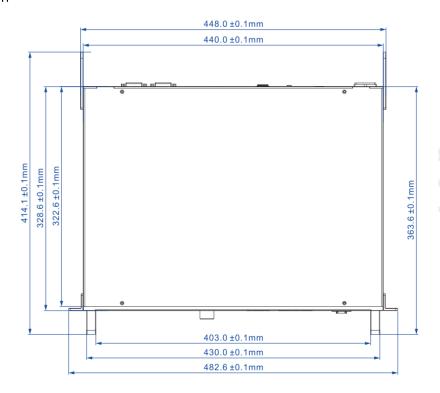
	Model	X20
	Size	2U
Electrical	Input Voltage	AC100~240V, 50/60Hz
Specifications	Power Consumption	50W
Communicatio	Ethernet Cable	Recommended: CAT5e≤100m
n Distance	Optical Fiber	Single-mode optical transceiver (optional): 2km, 20km
Operating	Temperature	-20°C~70°C/-4°F~158°F
Environment	Humidity	0%RH~80%RH, non-condensing
Storage	Temperature	-30°C~80°C/-22°F~176°F
Environment	Humidity	0%RH~90%RH, non-condensing
Device	Dimensions	W×H×L/482.6mm×88.0mm×414.1mm/19"×3.5"×1 6.3"
Specifications	Net Weight	4.8kg/10.58lbs
Packing	Dimensions	W×H×L/525.0×150.0×495.0mm ³ /20.7"×5.9"×19.5"
Specifications	Net Weight	1.8kg/3.97lbs

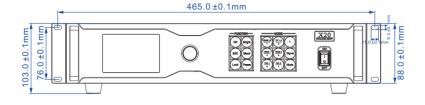
Technical Specifications

HDMI 2.0)(A)				
Standard	HDMI 2.0 specification, EIA/CEA-861 standard				
	Backward compatible with HDMI 1.4 and HDMI 1.3				
Input	Format		Maximum Input Resolution		
	8bit	RGB444	4096×2160@60Hz		
		YCbCr444			
		YCbCr422			
	Frame Rate	23.98/24/25/29.97/30	//50/59.97/60/120/144Hz		
	Support audio input				
DP 1.4					
Standard	DP 1.4 specification, support EDID				
		Format	Maximum Input Resolution		
		RGB444			
Input	8bit	YCbCr444	4096×2160@60Hz		
πρατ		YCbCr422			
	Frame Rate	23.98/24/25/29.97/30	/50/59.97/60/120/144Hz		
	Support audio input				
HDMI 1.4					
Standard	HDMI 1.4 spec	ification, HDCP1.4 com	pliant		
	Format		Maximum Input Resolution		
	8bit	RGB444			
Input		YCbCr444	1920×1200@60Hz		
прис		YCbCr422			
	Frame Rate	23.98/24/25/29.97/30/50/59.97/60Hz			
	Support audio input				
DVI					
Standard	Support HDCF)			
	Format		Maximum Input Resolution		
	8bit	RGB444	1920×1200@60Hz		
Input		YCbCr444			
		YCbCr422			
	Frame Rate	23.98/24/25/29.97/30/50/59.97/60Hz			

Dimensions

Unit: mm





Statement

Thank you for purchasing the product of Colorlight Cloud Tech Ltd. If you encounter any problems during use or have any suggestions, please contact us through official channels. We will do our best to provide support and listen to your valuable suggestions. We will constantly make improvements on technical specifications but