iMatrix

HDMI 4K Matrix Switcher

4x4, 8x8, 12x12 and 16x16 inputs/outputs

INTRODUCTION

The iMatrix series are new generation of 4K HDMI matrix switchers manufactured by INFOBIT AV. It supports the HDMI1.4a standard, EDID management and auto learning.

It supports resolutions up to 4K@30HZ and 1080@120HZ, simultaneous audio and video switching, suitable for application scenarios such as conference rooms, command centers, and multimedia rooms.

FEATURES

1. Pure hardware architecture without CPU and operating system;

2. Support hot-swapable, and the system is stable and reliable;

3. Adopt 17GHz high bandwidth chipset;

4. Support HDCP, Blu-ray, and 3D;

5. Support signal timing rearrangement, CEC, 48/36/30/24-bit Deep Color;

6. Support the fast closing of the channel;

7. Support HDMI 1.4a protocol: 4K x 2K@30Hz, 1080P@120Hz, 1080P

3D@60Hz;

8. Push buttons, the state of input and output channels can be visualized through the button indicators;

9. Broadcasting-level switching chip, image switching can be completed by a single chip.

10. Support push buttons, infrared remote control, RS232 serial port control;

11. Support EDID rewrite and EDID adaptive functions to adapt to the diversified display equipment on site and improve compatibility;

12. Long distance drive capability: The input is equipped with automatic equalization, which effectively reduces the deterministic jitter caused by transmission;

13. The output has a pre-enchance function, so that the receiving end can still receive the signal after long transmission, using high-quality HDMI 2.0 version cable, the input and output distance can reach 30 meters;

14. The input supports receiving delay, which can effectively compensate for time due to the different cables lengths;

15. Power-down memory protection function.

16. The HDMI video matrix adopts an external power supply and an aviation-style spiral power interface to ensure the power supply stability.

SPEC

Series	iMatrix			
Model	H44	H88	H1212	H1616
Inputs	4x HDMI	8x HDMI	12x HDMI	16x HDMI
Outputs	4x HDMI	8x HDMI	12x HDMI	16x HDMI
Size	1U 19"		2U 19"	
Resolution	480i, 576i, 480p, 576p, 720p ,1080i, 1080p@24/30/50/60/120Hz, 4K@30Hz, 1080P3D@60Hz			
Control Ports	1x RS-232 IN, 1x RS-232 OUT, 1x RJ-45 RS-232 OUT			
Protocol	HDMI1.4a, EDID management and HDCP			
Color	RGB444, YUV444, YUV422, x.v.Color			
Control By	Push Buttons, IR remote, RS232 and cascading control.			
Power	DC:12V 3A 100VAC - 260VAC, 50/60 Hz		DC:12V 5A 100VAC - 260VAC, 50/60 Hz	
Dimension (mm)	438×250×45 (mm) WDH		438×250×87 (mm) WDH	
Weight	5kg		6Kg	
Working Temp.	0 ⁰C~40 ⁰C/32 ⁰F~104 ⁰F			
Storage Temp.	−20 ⁰C~60 ⁰C/−4 ⁰F~140 ⁰F			