D6144

4-Channel Digital HD Seamless Video Matrix

Description

This device is an HDMI 4K seamless splicing matrix with input/output resolution up to 4K30 any Scaler output. Inputs support analog audio embedding, outputs support audio de-embedding and separation; splicing supports 4K input and output. The front panel provides key operation and LCD dot matrix screen for status feedback and operation prompt; it can be cascaded through the RS485 serial port and controlled by the central control host; its JTAG interface is used for device firmware upgrade, providing great convenience for equipment maintenance. It can be used in public security organs, schools, enterprises and other meeting places.

Features

- Support HD resolution 3840x2160@30HZ input and output.
- Support 4 HDMI inputs and 4 HDMI outputs.
- Support 4K screen splicing mode.
- Support 4-channel HDMI input audio embedding.
- Support 4-channel HDMI output audio de-embedding and audio separation.
- Support seamless and fast switching.
- Support quick operation with keys on the front panel.
- Support RS485 serial command control.
- Support JTAG to upgrade device firmware.
- Can be cascaded and controlled by the central control.
- Display the correspondence between the input and output channels.
- With power-off memory function.
- Using 1U chassis, designed with aluminum panel.

Specifications

Model	D6144
Maximum Image Resolution	3840x2160@30Hz
Input Sensitivity	560±50mV
Maximum Input Voltage	1.8±0.2V
Frequency Response	20-20kHz (±3dB)
Distortion	≤0.5%
S/N Ratio (A)	≥76dB
Crosstalk Attenuation	≤-50dB
Package Dimensions	535×329×145mm
Machine Dimensions	483×173×44mm
Gross Weight	3.8kg
Net Weight	2.5kg

Front / Rear Panel

Front Panel
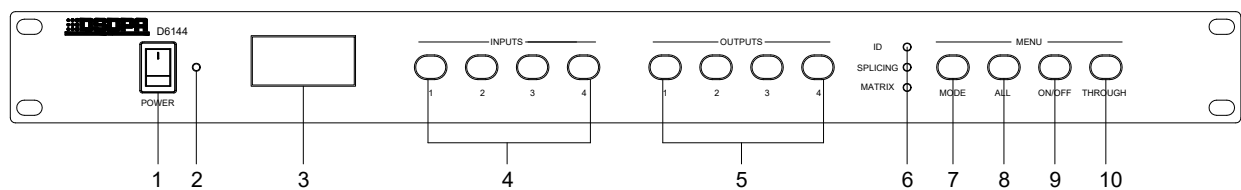
1. Power Switch

● Press the "I" position to power the device on, and press the other end to power it off.

2. Power Indicator

● Turn on the power switch after power-on and the indicator light will be normally blue.

3. LCD Dot Matrix Display Screen

● It displays the device ID number and the operating status of the 4 input/output channels.

4. Input Channel 1-4 Toggle Buttons

● 4 input channels can be toggled. Press the button and its backlight will light up red, indicating that the current input channel is turned on.

5. Output Channel 1-4 Toggle Buttons

● 4 output channels can be toggled. Press the button and its backlight will light up red, indicating that the current output channel is turned on; press the button again, its backlight will be off, indicating that the current output channel is turned off.

6. Mode Indicators

● They are ID setting mode indicator (ID), splicing mode indicator (SPLICING), and matrix mode indicator (MATRIX) respectively. When the indicator light lights up, it indicates that it enters the corresponding mode.

7. Mode (MODE) Selection Button

● Press the button to switch to matrix mode, splicing mode, and ID setting mode in turn, and the default is the matrix mode after power-on.

8. **Single-to-Many (ALL) Button**
- In matrix mode, select one input channel and press this button to switch one input channel to all output channels.

9. **Channel Switch (ON/OFF) Button**
- In matrix mode, press this button to turn on or off the input/output channel that was last turned on, and the channel switch (ON/OFF) button lights up, and all four output channels are turned off.

10. **Straight Through (THROUGH) Button**
- In matrix mode, press this button to pass through all input and output channels, that is, control the output of the first input channel to the first output channel, and so on, and the four channels are in one-to-one correspondence.

Rear Panel
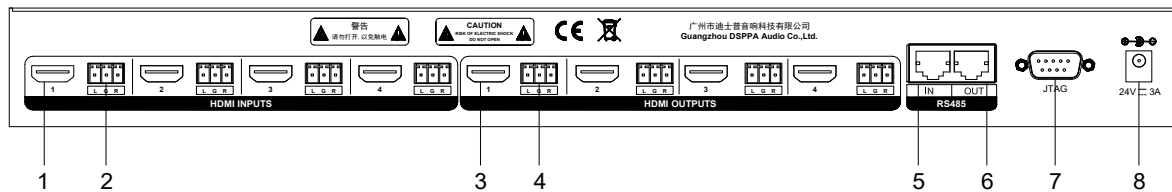
1. **HDMI Input Connector**
- Signal source input interface.

2. **Audio Embedding Analog Input Connector**

3. **HDMI Output Connector**
- HDMI output for connecting a display device.

4. **Audio De-embedding or Audio Separation Analog Output Connector**

5. **RS485 Input Interface**
- Connect the central control host to control the matrix or cascade the RS485 output interface of the previous video matrix.

6. **RS485 Output Interface**
- Connect the RS485 input of the next video matrix.

7. **JTAG Interface**
- Used to upgrade the device firmware.

8. **DC24/3A DC Power Input**