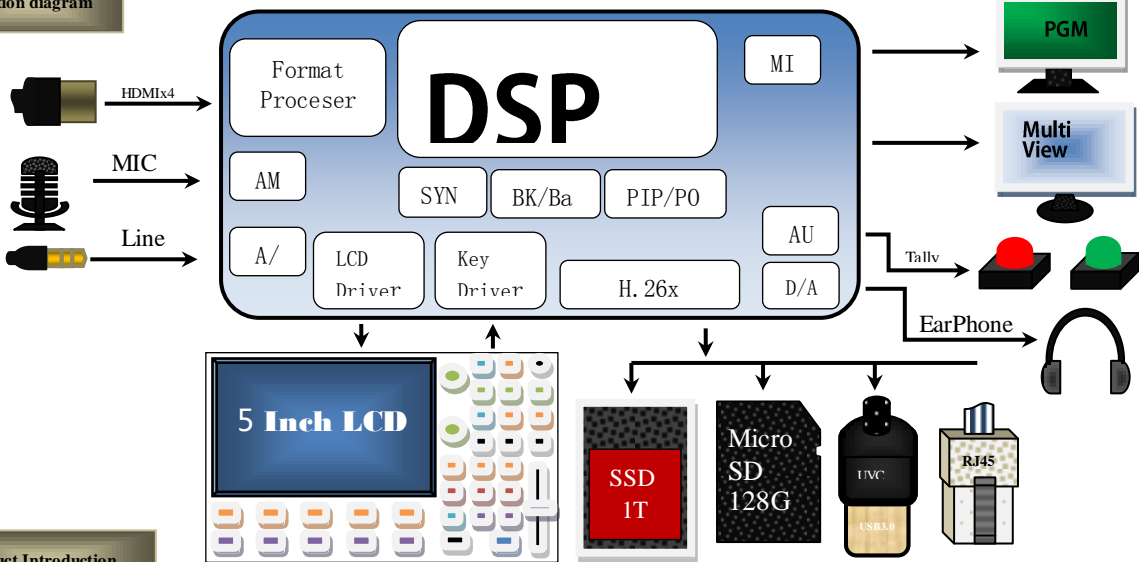


HDS8301(4xHDMI+ Record/Stream/Luma/Chroma+ Transition100+)

Ver.1.1



Function diagram



Product Introduction

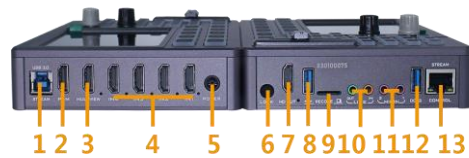
The Switcher, a dedicated video switcher for Broadcast & TV, and studio. The operation is simple and does not require a lot of professional knowledge. Aside from tedious software operation skills, you only need to switch the control according to the most intuitive click on the screen, and you can easily create a live broadcast feat. It adopts portable integrated design, metal shell, small size and light weight. HDS8301 comes with a 5-inch high-definition surveillance screen, standard size: 190mm*120mm*30mm, which can be applied to the video effects switching requirements of small outdoor scenes. The equipment integrates common components of switcher such as multi-screen preview processor, special effect generator, audio processor and so on.

HDS8301 supports 4 HDMI signal inputs, 2 HDMI signal output, and can output external preview signals simultaneously. HDS8301 supports HDMI embedded audio + external analog audio. After mixing, it can be embedded in the output HDMI signal or output from the analog port. The resolution of all input signals is automatically adapted, and the output signal resolution can be selected as required, which is quite flexible. The functions of HDS8301 can fully meet the video switching needs of broadcasting and television, program production, interview and speech live production, outdoor sports events, school courseware production and so on.

Product Features

- ◆ Portable integrated design
- ◆ Metal body, high strength and light weight
- ◆ There are hundreds of special effects such as circular, diamond, fan, plum blossom, and louver
- ◆ Integrated control keyboard
- ◆ Support up to 4 HDMI inputs
- ◆ 2 stereo MIC inputs
- ◆ 1 LINE IN input
- ◆ 1 LINE OUT output
- ◆ Support 1 USB3.0 output video stream, clear picture quality
- ◆ Support PC remote control
- ◆ The equipment comes with color bar output screen
- ◆ Support audio follow, mix function
- ◆ Support HDMI audio de-embedding
- ◆ PGM output: 1 HDMI
- ◆ Multiview output: 1 HDMI
- ◆ Support special effects switching such as MIX / FADE
- ◆ Support CUT hard cut, support AUTO special effect switching
- ◆ Support Tally / Network control
- ◆ Support still function
- ◆ Support PIP window function
- ◆ Support 4K signal input
- ◆ TF card to record PGM screen
- ◆ Chroma key and Luma key

Interface Description

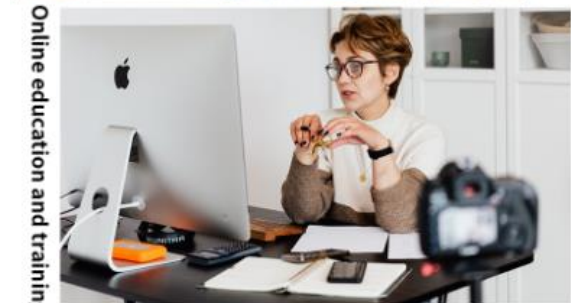


NO.	Interface definition	illustrate
1	STREAM OUT	USB3.0 interface, UVC output
2	HDMI OUT	1*PGM Live output
3	Multiview output	1* Multiview output
4	HDMI IN	4xHDMI signal input
5	Power	DC 12V Power
6	Lock screen switch	Lock screen switch
7	HDMI OUT	Record PGM Live output
8	EXT HDD	EXT HDD
9	TF card	TF card
10	LINE IN /OUT	Stereo audio input/output
11	MIC IN	2 MIC inputs
12	DCB	Cascade equipment, supporting TALLY lamp module (reserved)
13	RJ45	Network upgrade, PC remote control

Product Parameters

Name	4-CH HD Video Switcher	
Model	HDS8301	
Video Signal Input	Input signal	HDMI video signal
	Rate	270Mbps~3Gbps
	Connector	Standard
	Reflection loss	>15dB 5MHz~3GHz
	Signal amplitude	800mV±10%(HDMI)
	Impedance	100Ω (HDMI)
	Balance	Adaptive
	DVD input HDMI support	480i,576i,480p,576p,720p,1080i,1080p
Audio Signal	Level range	100mV-3.3V
	THD+N	<-100dB
	Frequency response	20Hz-80KHz
	SNR	>100dB
	Crosstalk	<-100dB
	Phase shift	<0 degrees
	Noise floor	<-100dB
	Computer HDMI input support	1920x1080,1680x1050,1600x900, 1440x1050,1366x768,1360x768, 1280x1024,1280x960,1280x800, 1280x768,1280x720,1280x600, 1152x864,1024x768,800x600
Video Signal Output	output signal	HDMI video output
	Code rate	270Mbps~3Gbps
	Connector	Standard
	Return Loss	>15dB 5MHz~3GHz
	Signal amplitude	800mV±10%(HDMI)
	impedance	100Ω (HDMI)
	DC offset	0V±0.5V
	Clock recovery	Support
General Parameter	power supply	12V/DC
	Power rate	18W
	Size	190*120*30mm
	control panel	Support on-site production, integration of a variety of buttons
	Operating temperature	0°C~50°C ,No condensation
	Storage temperature	-20°C~75°C
	Working humidity	20%~70%RH
	Storage humidity	0%~90%RH, No condensation

Application scenario



Application diagram

