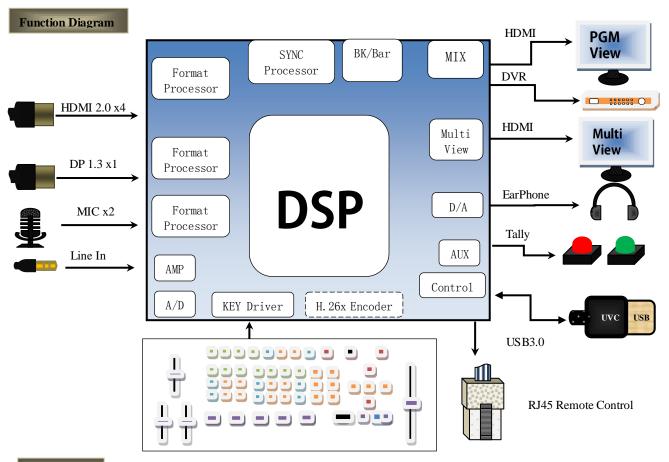


UHS7105 4K60 UHD Switcher (4HDMI+1DP)

Version: 1.0





Introduction

It is a dedicated video switcher for broadcast & TV, supporting up to 5-CH 4K60 signals. The device integrates HDMI decoder, DP decoder, the highest resolution supports 4K60HZ, backward compatible with 1080P/720P high-definition video signal such as 3G SDI, built-in format converter, adaptive front-end different video signal input, built-in special effect generator, audio processor, video streaming processing and other common components of switcher.

The video signal interface supports 4-CH HDMI+1-CH DP, total 5-CH video input and 3-CH HDMI output.

The audio signal interface supports 2-CH MIC input, 1-CH LINE input, and 1-CH Line output.

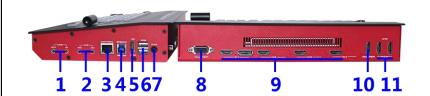
Support DCB control system and tally output.

It adopts high-strength aluminum alloy shell, which is easy to carry. It can be applied to broadcast and TV station studios and the needs of switching video effects on location. For professional users, the control keyboard can be expanded through the DCB interface.

Features

- lack Aluminum alloy material, high strength and light weight
- ◆ A separate PATTERN KEY, which can set various special-shaped patterns. The position, size and number of images can be adjusted.
- Hundreds of special effect wipes such as circle, rhombus, fan, plum blossom, shutter, etc.
- ◆Support RJ45 remote control
- ◆DCB control
- ◆Broadcast & TV standard Tally interface
- ◆Support GPI control
- ◆Support pedal, control handle and other input
- ◆4HDMI+1DP input
- ♦MULTIVIEW output: 1-CH HDMI
- ♦PGM output: 2-CH HDMI
- ◆2-CH MIC input
- ♦1 LINE IN input
- ♦1 LINE OUT output
- ◆Support USB3.0 Stream
- ◆Audio follow and mix function, HDMI audio de-embedding
- $\spadesuit MIX\,/\,FADE$ and other special effects transition
- ◆CUT hard cutting and AUTO special effect switching
- $lackbox{\ensuremath{\mbox{Φ}}}\xspace\x$
- ◆Support PIP/POP function
- lacktriangleFTB emergency blackout function
- ♦Luma Key & Chroma Key

Interfaces



No.	Definition	Description	
1	LINE IN/OUT	Stereo audio input/output	
2	MIC IN	2 MIC inputs	
3	RJ45	Network upgrade/Remote Control	
4	USB	USB3.0, UVC stream	
5	HDMI out	Record live streaming image output	
6	DCB	DCB interface, support cascade equipment, director tally light system	
7	DC 12V	DC 12V power supply	
8	Tally /GPI	Connected to director tally light system (DB-15)/GPI control	
9	HDMI IN/DP IN	4 HDMI+1 DP input, the first input can be switched to DP input	
10	HDMI OUT	Multiview OUT	
11	HDMI OUT	2HDMI PGM OUT	

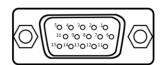
TALLY_GPI Definition:

TALLY /GPI feature lis

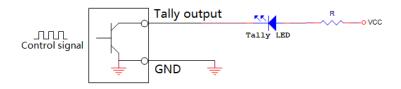
PIN	Function(TALLY)	PIN	Function(GPI)
11	PGM-IN1	1	GPI-IN1
12	PGM-IN2	2	GPI -IN2
13	PGM-IN3	3	GPI -IN3
14	PGM-IN4	4	GPI -IN4
6	PVW-IN1	10	GPI -IN5
7	PVW-IN2	15	GPI -IN6
8	PVW-IN3	5	GND
9	PVW-IN4		-

GPI Optional feature list

PIN	Function	Description
1	PGM1	Simulate PGM1 button messages
2	PGM2	Simulate PGM2 button messages
3	PGM3	Simulate PGM3 button messages
4	PGM4	Simulate PGM4 button messages
5	PGM_BAR	Simulate PGM_BAR button messages
6	CUT	Simulate CUT button messages
7	AUTO	Simulate AUTO button messages
8	MUTE	Simulate MUTE button messages
9	FTB	Simulate FTB button messages
10	STILL	Simulate STILL button messages



TALLY connection diagram:



Note: Tally LED: For an external display device

Tally output : Low level is active (Tally LED is on) high level is invalid (Tally out is off)

GPI Control Schematic:



Foot Switch

DJ Button

Parameters

Product Name	4K UHD Switcher		
Model	UHS7105		
	Input Signal	HDMI/DP video signal	
	Code Rate	270Mbps~18Gbps	
	Connector	Standard	
Video	Return Loss	>15dB 5MHz~3GHz	
Signal	Signal Amplitude	800mV±10%(HDMI)	
Input	Impedance	100Ω (HDMI)	
прис	Balance	Adaptive	
	DVD HDMI input support	480i/576i,480p/576p,720p,1080i,1080p,2160p	
	Computer HDMI	3840x2160,1920x1080,1680x1050,1600x900,1440x1050,1366x768,1360x768,1280x1024,	
	input support	1280x960, 1280x800,1280x768,1280x720,1280x600,1152x864,1024x768,800x600	
	Output Signal	HDMI video signal	
	Code Rate	270Mbps~18Gbps	
¥72.3	Connector	Standard	
Video	Return Loss	>15dB 5MHz~3GHz	
Signal Output	Signal Amplitude	800mV±10%(HDMI)	
Output	Impedance	100Ω (HDMI)	
	DC offset	0V±0.5V	
	Clock Recovery	Support	
	Power Supply	12V/DC	
	Power	50W	
	Size	282*175*48mm	
Common	Control Panel	Support on-site production, integrate a variety of buttons	
Parameters	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

