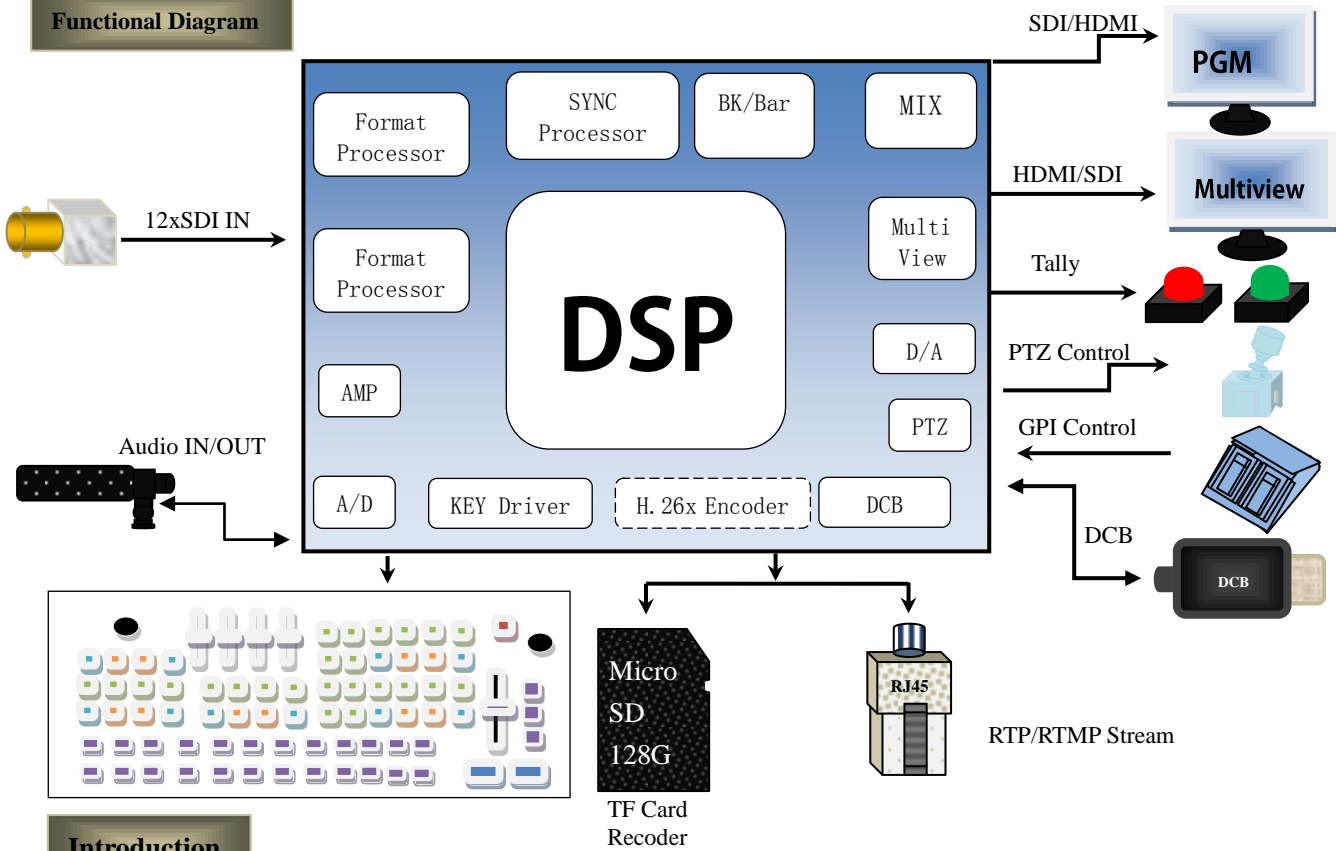


12-CH Video Switcher (12-CH SDI large-scale live)



Functional Diagram



Introduction

A dedicated switcher for broadcast, TV and studios, it is the first choice for large-scale live broadcasts. The twenty-channel switcher integrates multiple control methods. Special effects and transition methods can be set through the keyboard. The joystick can control the distance and distance of the camera.

The twenty-channel switcher is a switcher with 12 SDI inputs, 4 SDI outputs, and 4 HDMI output broadcast-grade video signals. The twenty-channel switcher is suitable for live performances, course recordings, and studio directing, etc. The switcher has a variety of functions. Such as multi-format video input with adaptive input resolution, analog balanced audio input and output, audio embedding and deembedding, mixing, TALLY, TF card recording, network port streaming, keying, RS422 and RJ45 control, etc. You can add LOGO, station logo, background animation and other materials through USB playback. With remote upgrade capabilities, users can perform video switching and audio mixing functions with additional effects through simple operations.

Features

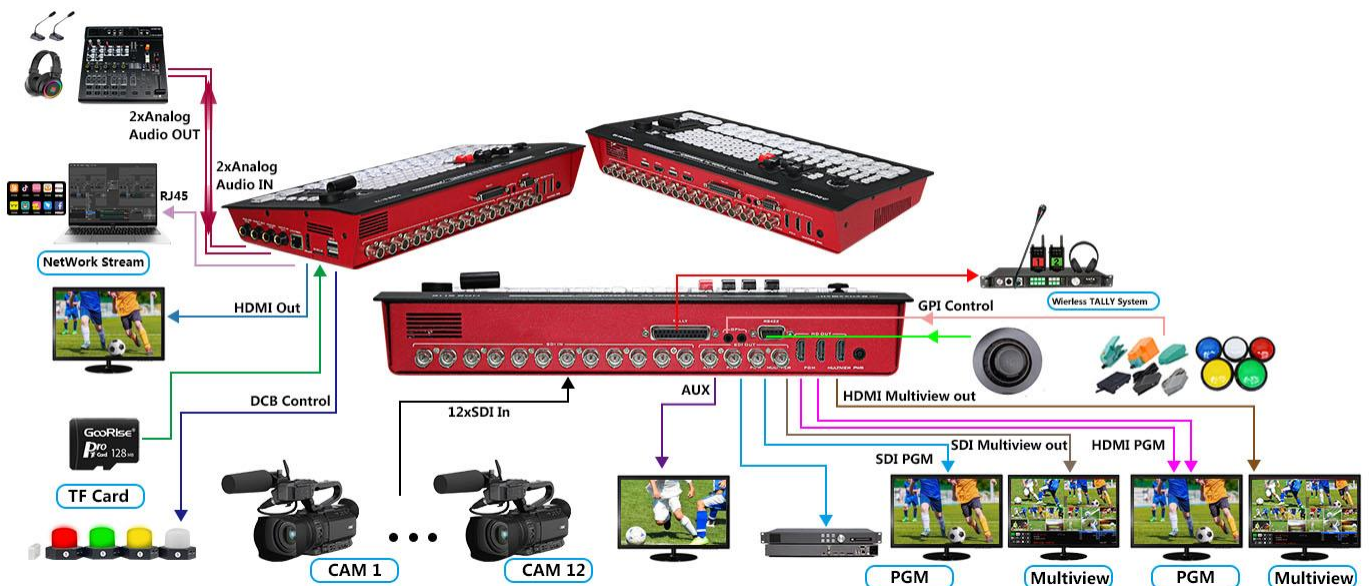
- Metal aluminum alloy material, high strength and light weight
- Separate PATTERN KEY, various special shapes can be set. Pattern, image position, size and quantity can be adjusted. Round, rhombus, fan-shaped, plum blossom, blinds, etc.
- Hundreds of special effects wipes
- Support joystick and camera control
- Industrial-grade mechanical buttons, professional-grade feel
- Support RJ45 remote control
- Support DCB control
- Broadcast & TV standard tally interface
- Support GPI control
- Support network port push streaming
- Support inputs such as foot pedals and control handles
- Support 12-CH SDI input
- MULTIVIEW output: 1 HDMI + 1 SDI
- PGM output: 3-CH HDMI+2-CH SDI
- Support 1 AUX custom output
- Support TF card recording
- 2-CH Analog Audio output
- 2-CH Analog Audio input
- Audio following and mixing functions
- Support SDI/HDMI audio de-embedding
- MIX /FADE and other special effects switching
- CUT and AUTO special effects transition
- STILL: one-click screen freezing function
- FTB emergency blackout function
- PIP/POP function
- Chroma key and Luma key functions
- Station logo and graphic and text overlay

Interfaces



No.	Definition	Description
1	Audio OUT	2xAudio OUT
2	Audio IN	2xAudio IN
3	RJ45	Network port push stream
4	HDMI OUT	HD PGM OUT
5	TF Card	TF card storage
6	DCB	DCB control (device cascading/wireless TALLY)
7	SDI IN	12x SDI IN
8	AUX	Customize any input channel output
9	PGM	2 x SDI PGM OUT
10	MULTIVIEW	SDI MULTIVIEW OUT
11	PGM	2 x HDMI PGM OUT
12	MULTIVIEW	HDMI MULTIVIEW OUT
13	DC 12V	Power input
14	RS422	Serial port control
15	GPI	GPI control
16	TALLY	Connect to the director TALLY system (DB-25)

Application



Parameters

Product Name	HD Video Switcher	
Video Signal Input	Input signal	12 SDI inputs
	SDI Rate	1.5G、3G
	Connector	Standard
	Reflection loss	>15dB 5MHz~3GHz
	Signal amplitude	800mV ±10%(SDI)
	Impedance	75 Ω(SDI)
	Balance	Adaptive
	SDI input	12 x 10bit 720p、1080i、1080p
	SDI format	SMPTE 292M、SMPTE 296M、SMPTE 424M、SMPTE 425M A Grade、SMPTE 2081-1、SMPTE 2081-10、SMPTE 2082-1 & SMPTE 2082-10、SMPTE 2082-12
	HD video input format	720p50、720p59.94、720p60 1080i50、1080i59.94、1080i60 1080p23.98、1080p24、1080p25、1080p29.97、1080p30、1080p50、1080p59.94、1080p60
Video Signal Output	Video output	PGM output: 2xSDI+3xHDMI Multi-screen output: 1xSDI + 1xHDMI
	Multiview out	1x HDMI+1xSDI
	HD video output format	1080p23.98、1080p24、1080p25、1080p29.97、1080p30、1080p50、1080p59.94、1080p60
	Screen display	12xSDI HD DISPLAY
	SDI video output	4 x 10bit 1080p
	HD video output	1920x1080
	Clock recovery	Support
Control Parameter	Remote control	GPI
	Connection port	3.5mm port
	Network control	UDP
	Connection port	RJ45,100M
General Parameter	power supply	12V/DC
	Power	<80W
	Size	360x176x54mm
	Weight	2 Kg
	Audio input	2-CH Analog Audio input
	Audio output	2-CH Analog Audio output
	Keying/Stream	YES
	TF card record	YES
	PIP/POP	YES
	Special effects	T-BAR/AUTO /CUT/ FTB/STILL/PATTERN KEY/BAR
	Transition	MIX /FADE/WIPE
	Camera control	MIX:12-WAY CAMERA CONTROL
	Screen display	12xSDI HD DISPLAY
	Control panel	Support on-site production, integration of a variety of buttons.
	Operating temperature	0℃~50℃ No condensation
	Storage temperature	-20℃~75℃
Working humidity	20%~70%RH	
Storage humidity	0%~90%RH, No condensation	