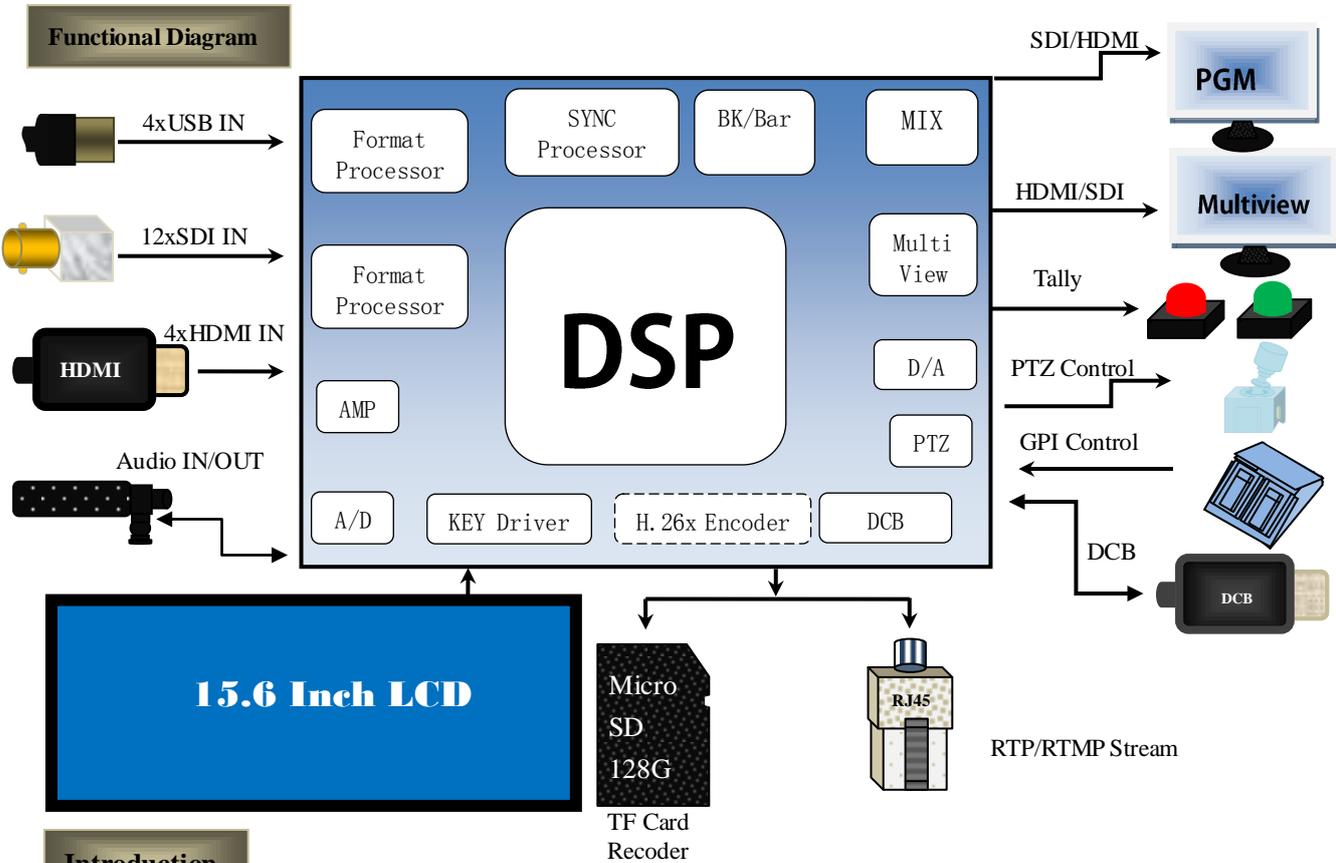


20-CH Video Switcher (12-CH SDI+4-CH HDMI+4-CH USB for large-scale live)



Introduction

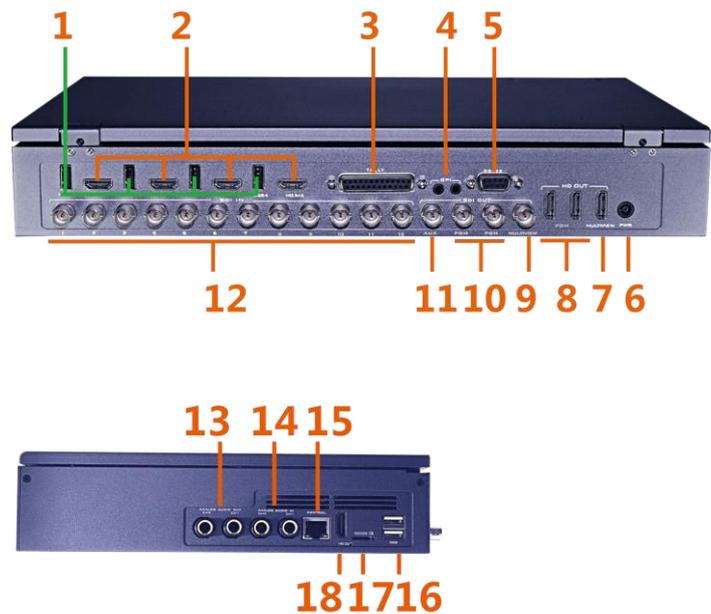
A dedicated switcher for broadcast, TV and studios, it is the first choice for large-scale live broadcasts. The twenty-channel switcher integrates multiple control methods. Special effects and transition methods can be set through the keyboard. The built-in menu display function can set up the equipment more intuitively and efficiently. The joystick can control the distance and distance of the camera.

The twenty-channel switcher is a switcher with 12 SDI inputs + 4 HDMI + 4 USB video signal inputs, a total of 20 input signals, 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
- Comes with 15.6-inch LCD screen
- 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+4-CH HDMI+4-CH USB material 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
- Color bar output
- 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

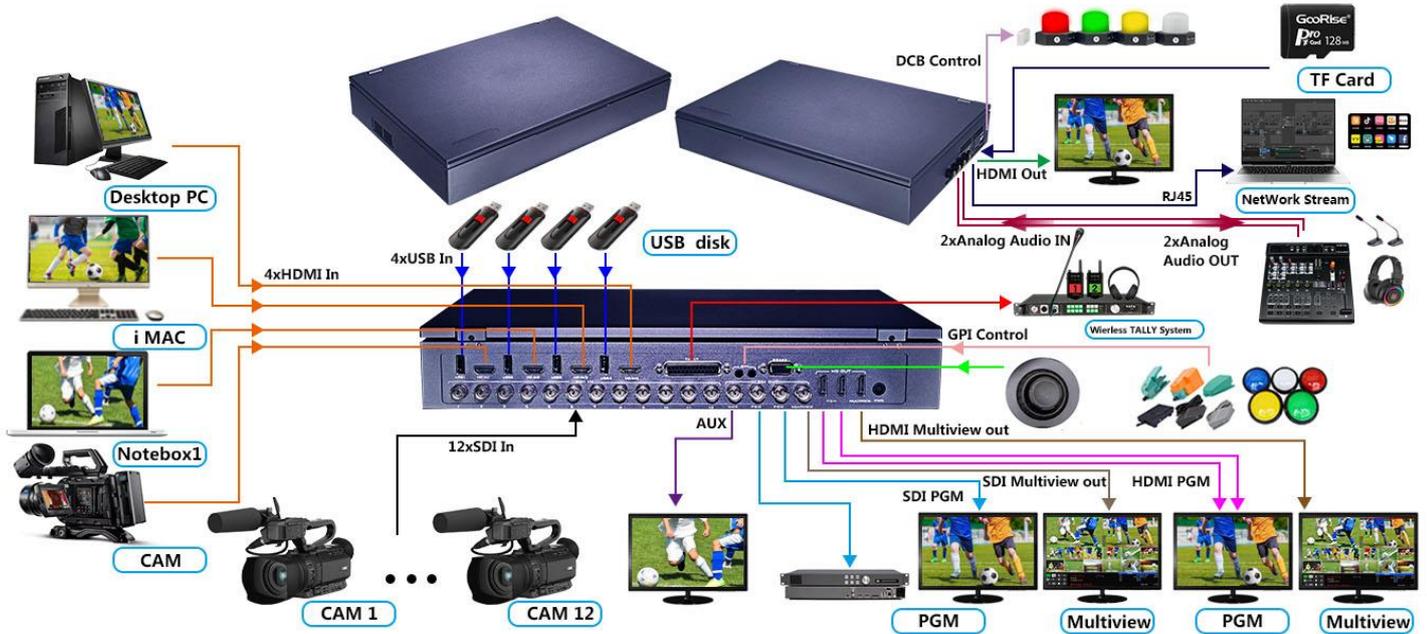


No.	Definition	Description
1	USB IN	4xUSB material IN
2	HDMI IN	4x HDMI IN
3	TALLY	Connect to the director TALLY system (DB-25)
4	GPI	GPI control
5	RS422	Serial port control
6	DC 12V	Power input
7	MULTIVIEW	HDMI MULTIVIEW OUT
8	PGM	2 x HDMI PGM OUT
9	MULTIVIEW	SDI MULTIVIEW OUT
10	PGM	2 x SDI PGM OUT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

Parameters

Product Name	HD Video Switcher	
Video Signal Input	Input signal	12 SDI inputs, 4 USB material inputs, 4 HDMI inputs
	SDI Rate	1.5G、3G
	Connector	Standard
	Reflection loss	>15dB 5MHz~3GHz
	Signal amplitude	800mV ±10%(SDI/HDMI)
	Impedance	75 Ω(SDI) 100 Ω(HDMI)
	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 + LCD
	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	370*250*60mm
	Weight	3 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	

Application



Live sports application

HDS9320, a dedicated broadcasting video switcher for large-scale live events, allows you to create star team-style sports programs for your sports activities! Whether it's football, table tennis, bowling or baseball, the HDS9320 broadcasting station can connect multiple video cameras to present the game from multiple angles without blind spots, giving you a panoramic view of the details. You can use special effect buttons to superimpose graphics and text on top of the game screen, making it look like a professional sports program! The HDS9320 broadcasting station can help you and your friends create live sports programs with broadcast quality and realize live network streaming!

