

Compact 1RU 16×16 3G-SDI Seamless Matrix Switcher



This device is the perfect solution for a large broadcast project. The compact SDI routing switcher features 16 inputs and 16 outputs, redundant power connections and an elegant machined metal front panel with 2.2 inch LCD for routing label display. Routing can be performed by direct button selection and the spin knob controller. The 3G-SDI seamless matrix switcher supports standard 3G/HD/SD SDI rates, automatic bypass of non-standard rates between 270Mbit/s and 3Gbit/s. Built-in frame synchronizer support simultaneous input of signal of different resolution frame rates, which can realize seamless switching without black screen. It can conveniently controlled by front panel button, PC software via LAN/RS-422.

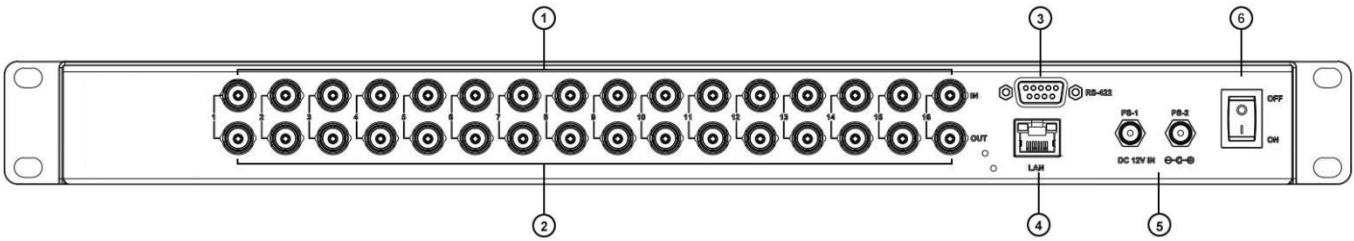
Connections

SDI Video Input 16×SD/HD/3G-SDI(75Ω BNC)	Control Front panel button, PC software via LAN/RS-422	Updates and Configuration LAN(RJ45)
SDI Video Output 16×SD/HD/3G-SDI(75Ω BNC)		

Standards

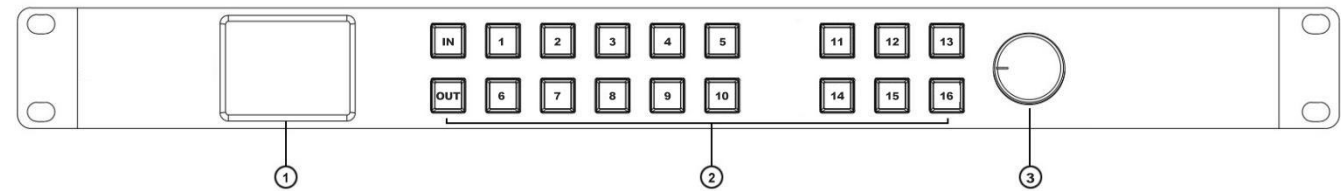
SDI Input Format Support (3G level A)1080p 60/59.94/50 (HD) 1080p 30/29.97/25/24/23.98 (HD)1080PsF 30/29.97/25/24/23.98 (HD)1080i 60/59.94/50 (HD)720p 60/59.94/50 (HD)720p 30/29.97/25/24/23.98 (SD)625i 50 (SD)525i 59.94	SDI Auto Switching Automatically detects SD, HD and 3G-SDI
SDI Output Format Support (3G level A)1080P60/59.94/50 (HD) 1080P30/29.97/25/24/23.98 (HD)1080I60/59.84/50 (HD)720P60/59.94/50/30/29.97/25/24	SDI Compliance SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 424M, SMPTE 425M
	SDI Color Space and Precision YUV 4:2:2 10bit/12bit

Interfaces



① Inputs	SDI inputs 1-16	② Outputs	SDI outputs 1-16
③ RS-422	PC software control	④ LAN	PC software control and update
⑤ Power	Dual power connectors PS-1 & PS-2, for power redundancy	⑥ Power Switch	To turn on or off the device

Front Panel Control

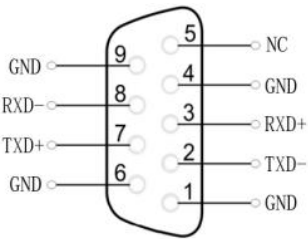


① 2.2 Inch LCD Display	Show Device status and menu control
② IN/OUT Buttons and Channel Buttons	Input or output channel from 1 to 16 channel - Switching an input to an output. press buttons “IN, 1, OUT, 2” to switch input 1 signal to output 2. - Switching an input to multiple outputs. Press buttons “IN, 1, OUT, 2, 4, 5” to switch input 1 signal to output 2, 4, 5. Note - The OUT button indicator will automatically close after 8s. When it is off, you only need to press the OUT button again to continue the unperformed switch.
③ Knob	Controls the menu. Turn anticlockwise=menu Up , Turn clockwise=menu down, Press down = Enter

PC Control

Please download the PC control software from website.

RS-422 Interface Define



Menu Control

Main Menu	Sub Menu	Options	Description
System Setting	Language	Chinese/English	Change the Language between Chinese and English
	LCD brightness	10-100	Set the brightness backlight between 10-100
	LCD ON/OFF	15s Off/60s Off/Always/15s Dim/60s Dim	Set the state of backlight,there are five mode for option: 15s Off/60s Off/Always/15s Dim/60s Dim
	Lock	On/Off	Set the button to Lock or unlock front panel buttons
	Reset		Reset to default configuration
	Return		Back to the main menu
Network Setting	Network	Dynamic/Static	Two ways to acquire the IP: Static(set IP freely by yourself) and Dynamic(IP configured by router)
	IP		Set the IP address
	NetMask		Default setting is 255.255.255.0
	Save		Save network setting
	Return		Back to the main menu
Output Setting	Format	1080P60/1080P59.94/1080P50/1080P30/1080P29.97/1080P25/1080P24/1080P23.98/1080I60/1080I59.84/1080I50/720P60/720P59.94/720P50/720P30/720P29.97/720P25/720P24/625I50/480I60/480I59.94	Set the output formats
	One to One	Enable	Set all input and output channels correspond one by one
	One to all	Enable	Set switching an input to all outputs
	Return		Back to the main menu
Device Info	SN		Current serial number information
	Return		Back to the main menu
Exit			Exit main menu

Power

Power Supply

PS-1, PS-2, power redundancy

Voltage Range

DC 12-24V

Power Consumption

14W

Physical Specifications

Dimension

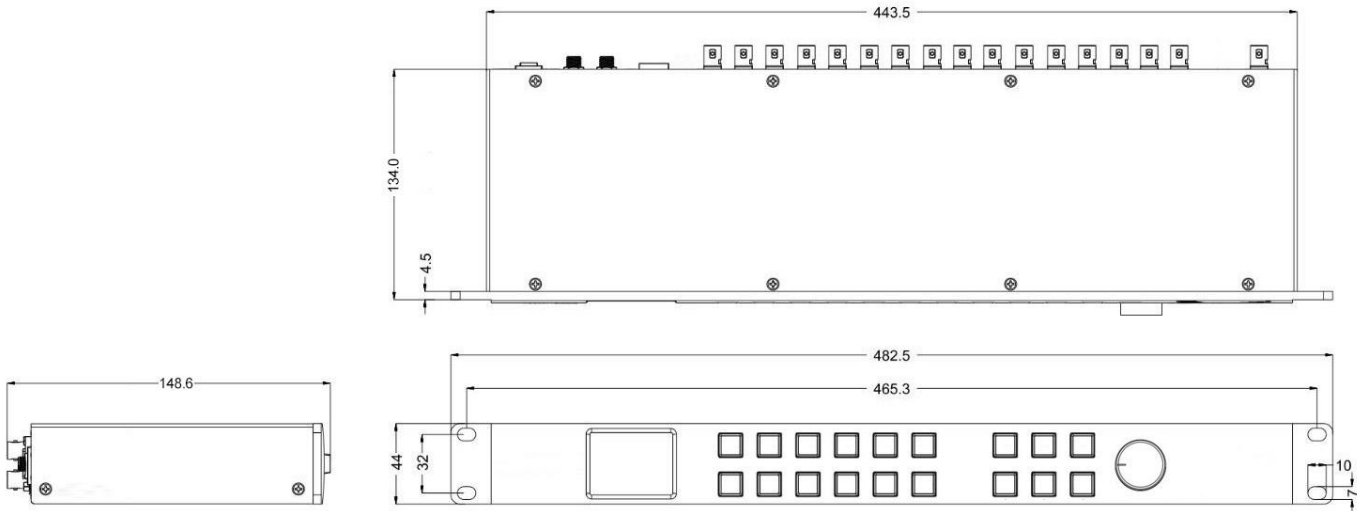
Standard 19" 1 rack unit

Net Weight

2.0kg

Gross Weight

3.8kg



Environmental Specifications

Operating Temperature

0°C~60°C

Storage Temperature

-30°C~70°C

Relative Humidity

0%~90% non-condensing

What's Included

Compact 1RU 16×16 3G-SDI Seamless Matrix Switcher

DC 12V 5A Power Adapter × 2

Warranty

3 Year Limited Manufacturer's Warranty.

✧ Note: due to constant effort to improve products and product features, specifications may change without notice.