User Manual

8x8 3G SDI HD/SD-SDI Matrix Switcher

H-8x8SDI-SW

A Note from Thor Broadcast about this Manual

Intended Audience

This user manual has been written to help people who have to use, integrate and to

install the product. Some chapters require some prerequisite knowledge in electronics

and especially in broadcast technologies and standards.

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Tel: (800) 521-8467   Email: sales@thorfiber.com   http://www.thorbroadcast.com

The Thor 8x8 SDI Switcher is a 1RU easy to use, compact chassis that can enable you to easily use multiple SDI sources and output them in any arrangement you need. It includes multi format technology so it can auto detect multiple video format sources of SD/HD/3G-SDI (level A & B) and DVB-ASI signals at the same time and route the multiple video destinations in NTSC and PAL SD, 720,1080 at any frame rate.

Easy to use and setup; multiple options to manage the unit so you can use the switcher via the front panel, PC Software, and USB Keyboard. Includes mini 2" LCD view window to watch the current program you're queued in on.

Redundant Power means you will never to worry about the switcher going down during critical no fail applications.

Compact Design in a 1RU format please just a few inches wide means that you'll never have to worry about fitting it into your current rack. Amazing for small environments in production, mobile trucks, and theatrical AV.

The compact SDI routing switcher has 8 inputs and 8 outputs, supports standard 3G/HD/SD SDI rates, automatic bypass of non-standard rates between 270Mbit/s and 3Gbit/s, and passes all SDI embedded audio/ancillary data. It can conveniently controlled by front panel button, keyboard via USB and PC software via LAN/RS-232.
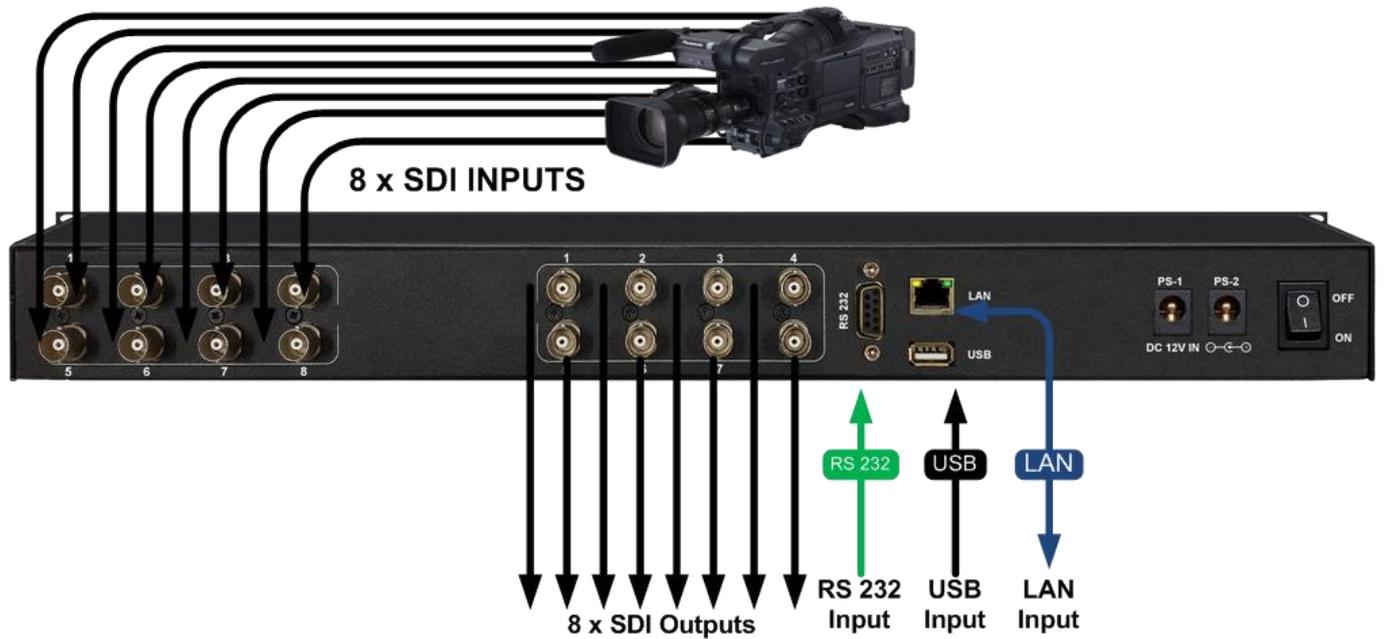
Features :

- 8-3G-SDI inputs, 8x3G - SDI outputs

- SDI input signal auto detection & equalization

- Level A and level B signal supported

- Pass all ancillary data and embedded audio

- DVB-ASI interface compatible

- Free PC software for control: LAN, RS-232

- Front panel buttons control & USB keyboard

- Redundant power design

Connections

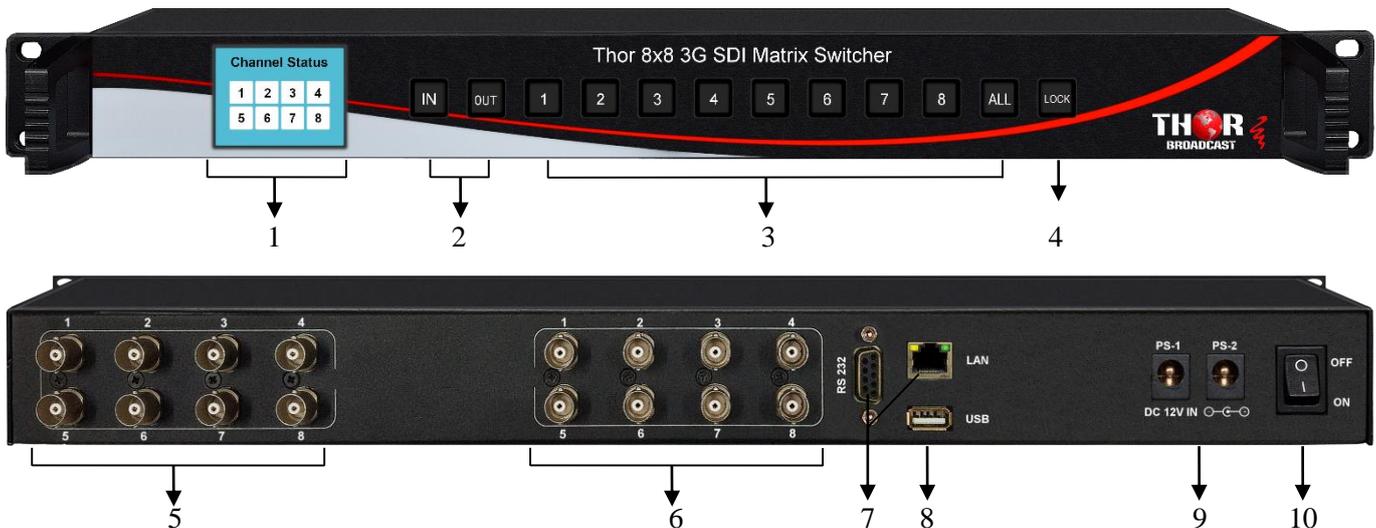| SDI Video Input	8×SD/HD/3G-SDI(75Ω BNC)
SDI Video Output	8×SD/HD/3G-SDI(75Ω BNC)
Control	Front panel button, USB keyboard, PC software via LAN/RS-232
Updates and Configuration	LAN(RJ45)
SDI Video Input	8×SD/HD/3G-SDI(75Ω BNC)
SDI Video Output	8×SD/HD/3G-SDI(75Ω BNC)

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Standards

SDI Format Support	(2K) 2048×1080p 30/29.97/25/24/23.98 (2K) 2048×1080PsF 30/29.97/25/24/23.98 (HD) 1920×1080p 60/59.94/50/30/29.97/25/24/23.98 (HD) 1920×1080PsF 30/29.97/25/24/23.98 (HD) 1920×1080i 60/59.94/50 (HD) 1280×720p 60/59.94/50 (HD) 1280×720p 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 Compliance	SMPTE 372M, SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 424M, SMPTE 425M, DVB-ASI
SDI Color Space and Precision	RGB 4:4:4 10bit/12bit YUV 4:2:2 10bit/12bit YUV 4:4:4 10bit/12bit XYZ 4:4:4 12bit

Controls

①	**2.2 inch LCD display**	Show channel switching status
②	**IN/OUT buttons**	Select the input or output channel
③	**Channel buttons**	input or output channel from 1 to 8 and all channel
④	**Lock button**	Lock or unlock, press the button to Lock or unlock front panel buttons
⑤	**Inputs**	SDI inputs 1-8
⑥	**Outputs**	SDI outputs 1-8
⑦	**Control port**	PC software via LAN/RS-232
⑧	**USB port**	Connect by USB keyboard to control
⑨	**Power**	Dual power connectors PS-1 & PS-2, for power redundancy
⑩	**Power switch**	To turn on or off the device

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Front Panel Control

- Switching an input to an output.
  e.g. press buttons "IN, 1, OUT, 2" to switch input 1 signal to output 2.
- Switching an input to multiple outputs.
  e.g. press buttons "IN, 1, OUT, 2, 4, 5" to switch input 1 signal to output 2, 4, 5.
- Switching an input to all outputs.
  e.g. press buttons "1, ALL" to switch input 1 signal to all outputs.

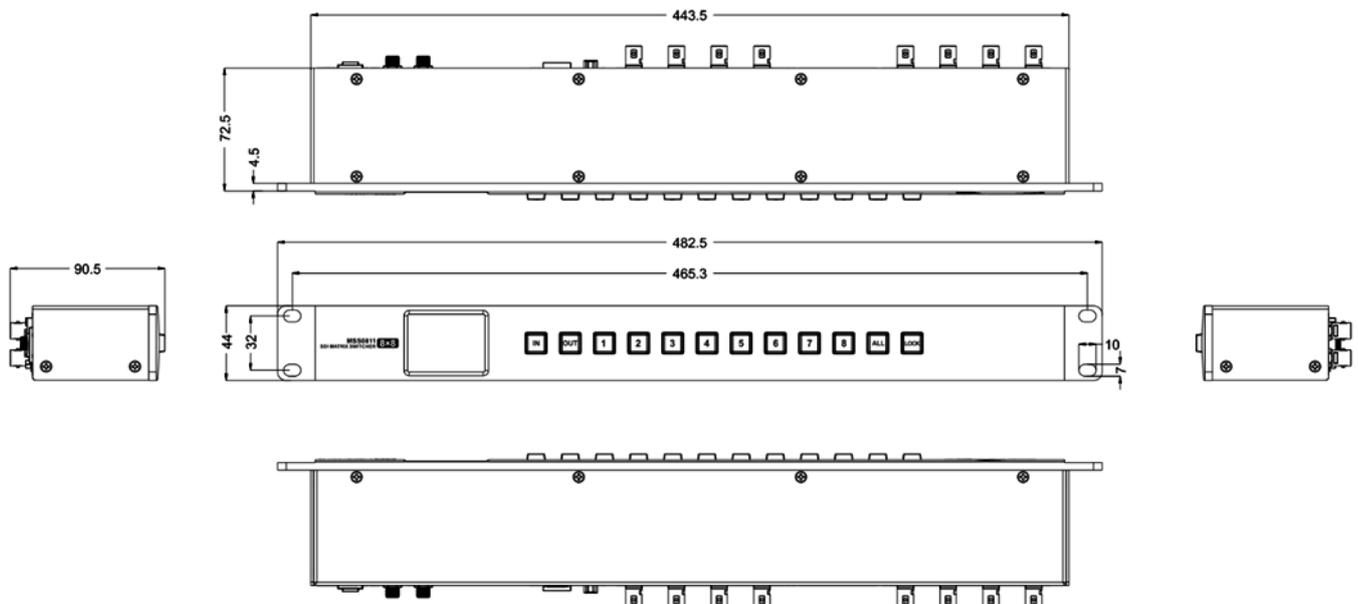## USB Keyboard Control ("I" = "IN", "O" = "OUT", "A" = "ALL")

- Switching an input to an output.
  e.g. press keys "I, 1, O, 2" to switch input 1 signal to output 2.
- Switching an input to all outputs.
  e.g. press keys "1, A" to switch input 1 signal to all outputs.
- Switching the device return to the default status "One to One" press the key "C".
  "One to One" means return to default status, "Input 1 to Output 1, Input 2 to Output 2, …, Input 8 to Output 8".

Power

Power Supply	PS-1, PS-2, power redundancy
Voltage Range	DC 6-24V
Power Consumption	7W

Physical Specification

Dimension	Standard 19" 1 rack unit
Net Weight	1.1kg
Gross Weight	1.7kg

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Environmental Specifications

Operating Temperature	-20℃~60℃
Storage Temperature	-30℃~70℃
Relative Humidity	0%~90% non-condensing

Packing List

H-8x8SDI-SW	1 PC
User's Manual	1 PC
DC 12V 2A Power Adapter x2	1 PC

For Further Tech Support
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support@thorfiber.com