4x4 3G-SDI Switcher & Splitter - ID# 898

Operation Manual

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Introduction

The 3G-SDI 4 by 4 Switcher allows SD-SDI, HD-SDI and 3G-SDI signals to be shown on SDI display while ensuring high bit rates of 2.970 Gbit/s to give you fast signal transmission without signal loss. For professionals this means that it is now easier to switch four 3G-SDI signals and split it up to four SDI signal outputs.

Features

- Four 3G-SDI input sources can selected as the source and split to four 3G-SDI displays simultaneously
- Operation at 2.970Gb/s, 2.970/1.001Gb/s, 1.485Gb/s, 1.485/1.001Gb/s and 270Mb/s
- Supports SMPTE 425M (Level A and Level B), SMPTE 424M, SMPTE 292M, SMPTE 259M-C
- Provides the Equalized and re-clocked transmission
- Control by RS-232, IR Remote and on panel buttons
- Supports signal input and output distance of up to 300M for SD signals, 200M for HD signals and 100M for 3G signals.

Note: Cable tested with Belden 1694A. Operating distances may vary if used with another type of cable.
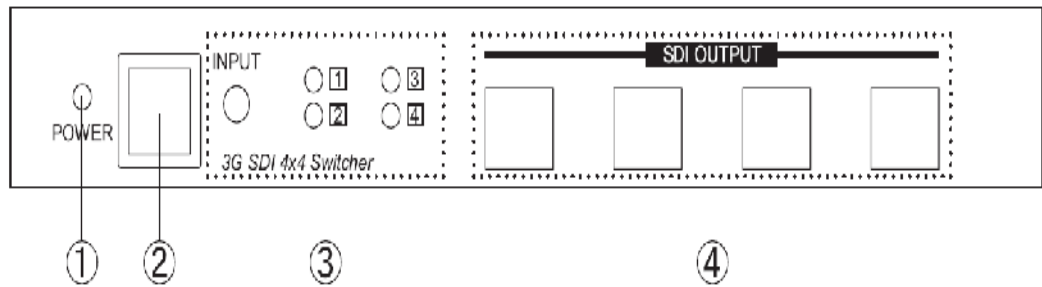
Applications

- Video broadcasting display
- Professional video program display
- Film studios program monitoring
- Video program switching display

System Requirements

Input connects with SDI sources and output connects with SDI displays, all input/output with SDI cables.

Operation Controls and Functions

Front Panel

① **Power LED:** This green LED will illuminate when the device is connected with power supply.

② **IR receiver:** This IR window receives IR signal from the remote control included in the package.

③ **3G-SDI Input select/Indicator 1~4:** Press the input button sequentially to switch to your desired SDI input source, the LED will illuminate to indicate which input source is selected.

④ **SDI OUTPUT:** These slots are to connect to the SDI displays with an SDI cables for displaying images. Or it can be connect with another SDI converter/extender to extend the signal.

Rear Panel
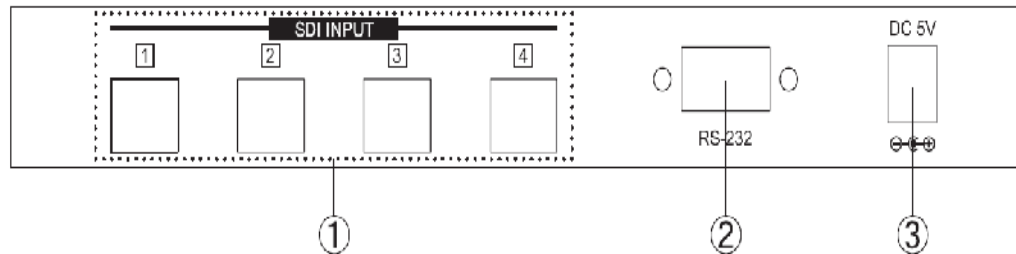
① *SDI INPUT:* These slots are to connect to the SDI source equipments such as video camcorder or SDI player.

② **RS-232:** Connect with D-Sub 9pin cable from the PC/NB for RS-232 control.

③ **DC 5V:** Plug the 5V DC power supply into the unit and connect the adaptor to AC wall outlet. Green LED will illuminate when the power is connected.

RS-232 Protocols

Pin Assignment
Pins definition of modem cable

PIN	Definition
1	NC
2	TxD
3	RxD
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC

Remote Controller	
PIN	Definition
1	NC
2	RxD
3	TxD
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC

Baud Rate: 19200bps
Data bit: 8 bits
Parity: None
Stop bit: 1 bit

Commands

Command	Action
PC	Enter into /exit PC Command
power00	Power OFF
power01	Power ON
input01	Input selction 1
input02	Input selection 2
input03	Input selection3
input04	Input selection4

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Remote Control

① **Power:** Press the button to turn on/off the unit.
② **Direct input selector:** Press 1, 2, 3 or 4 to select the desired input source.
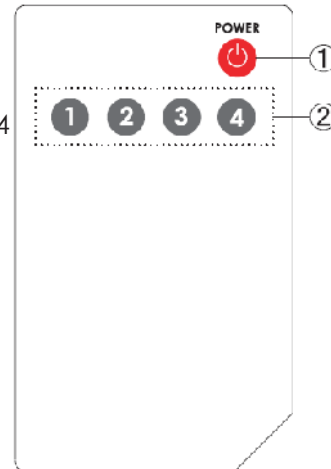
Specifications

SMPTE Standard	425M Level A & B, 424M, 292M, 259M-C
SDI Transmition Rates	2.970 Gbit/s and 2.970/1.001 Gbit/s
Input/Output Ports	4/4 BNC (SD-SDI/HD-SDI/3G-SDI)
Support Timing	SD-SDI: 480i / 576i
	HD-SDI: 720p@50/60, 1080i@50/60, 1080p@24/50/60
	3G-SDI: 1080p@50/60
Power Supply	5V DC/ 2.6A (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human body model:
	± 8kV (air-gap discharge)
	± 4kV (contact discharge)
SDI Cable Distance	3G-SDI up to 100M (BELDEN 1694A)
	HD-SDI up to 200M (BELDEN 1694A)
	SD-SDI up to 300M (BELDEN 1694A)
Dimension (mm)	200 (W) x 138 (D) x 30 (H)
Weight (g)	900
Chassis Material	Metal
Silkscreen Color	Black
Operating Temperature	0˚C ~ 40˚C / 32˚F ~ 104˚F
Storage Temperature	-20˚C ~ 60˚C / -4˚F ~ 140˚F
Relative Humidity	20 ~ 90% RH (Non-condensing)
Power Consumption (W)	5W

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x4

Camcorder

SDI Monitor   SDI Monitor   x3

or

ID # 857

HDMI TV/Monitor

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