

VOPEX® Series

VOPEX-3GSDI-4

3G-SDI Splitter: 4-Port Installation and Operation Manual



TRADEMARK

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CHANGES

The material in this guide is for information only and is subject to change without notice. Network Technologies Inc reserves the right to make changes in the product design without reservation and without notification to its users.

Introduction

The VOPEX® 4-Port 3G-SDI Splitter simultaneously displays the same image from one SD/HD/3G-SDI video source onto four SD/HD/3G-SDI monitors.

Features

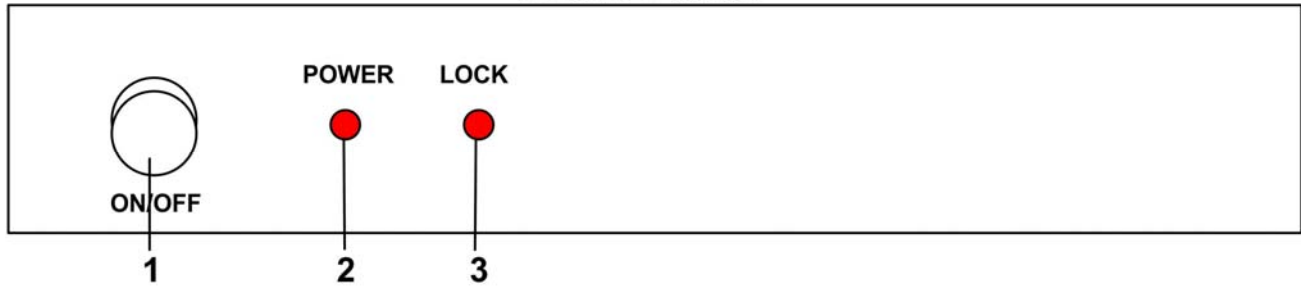
- Simultaneously broadcasts 3G-SDI/HD-SDI/SD-SDI signal from one source to four displays using 75 Ohm RG6 BNC cables.
 - Automatic input equalization – compensates for attenuation on the incoming signal and automatically equalizes cables for the following distances:
 - 3G-SDI 1920x1080@60Hz to 328 feet (100 meters).
 - HD-SDI 1280x720@60Hz to 656 feet (200 meters).
 - SD-SDI 525i@60Hz and 625i@50Hz to 984 feet (300 meters).
 - Automatic output reclocking – reshapes and restores timing of digital video signals at output, eliminating high frequency jitter.
- Supports HDTV resolutions to 1080p @60Hz.
- Auto-detects 3G-SDI, HD-SDI, or SD-SDI format.
 - Supports SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 424M, SMPTE 425M Level A, and ITU-R BT.656/BT.601 video interfaces used for broadcast-grade video.
- Passes embedded audio, ancillary ID and metadata information, and SD/HD/3G-SDI digital video signals
 - Supports 48kHz audio.
- Plug-and-play functionality – no software needed.
- Ideal for CCTV surveillance systems, TV broadcast studios, digital cinema, medical imaging facilities, or any AV application where signals need to be split from a camera or other device equipped with 3G/HD/SD-SDI outputs to four SDI-compliant displays or video processors.

Materials Supplied

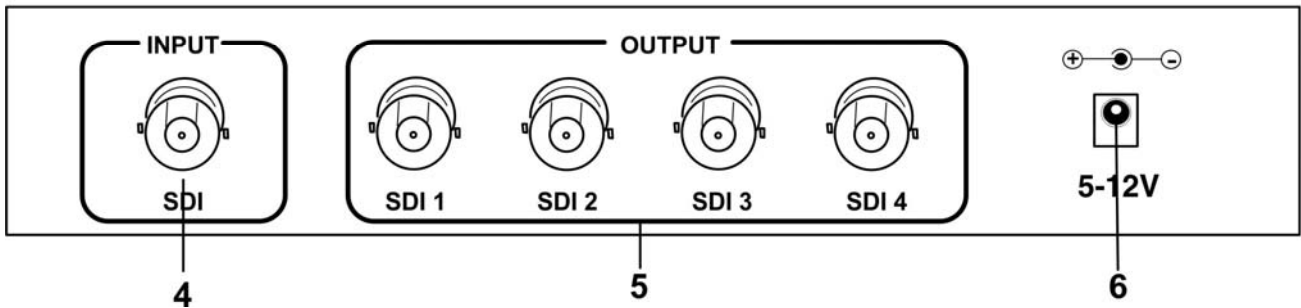
- VOPEX-3GSDI-4 4K HDMI Splitter
- 100-240VAC, 50/60Hz ; 5VDC 3A (PS4297) AC Adapter
 - Contact an NTI product consultant for 9VDC or 12VDC power supply options
- Country-specific line cord
- URL Slip with path to this manual

VOPEX-3GSDI-4

Front Panel



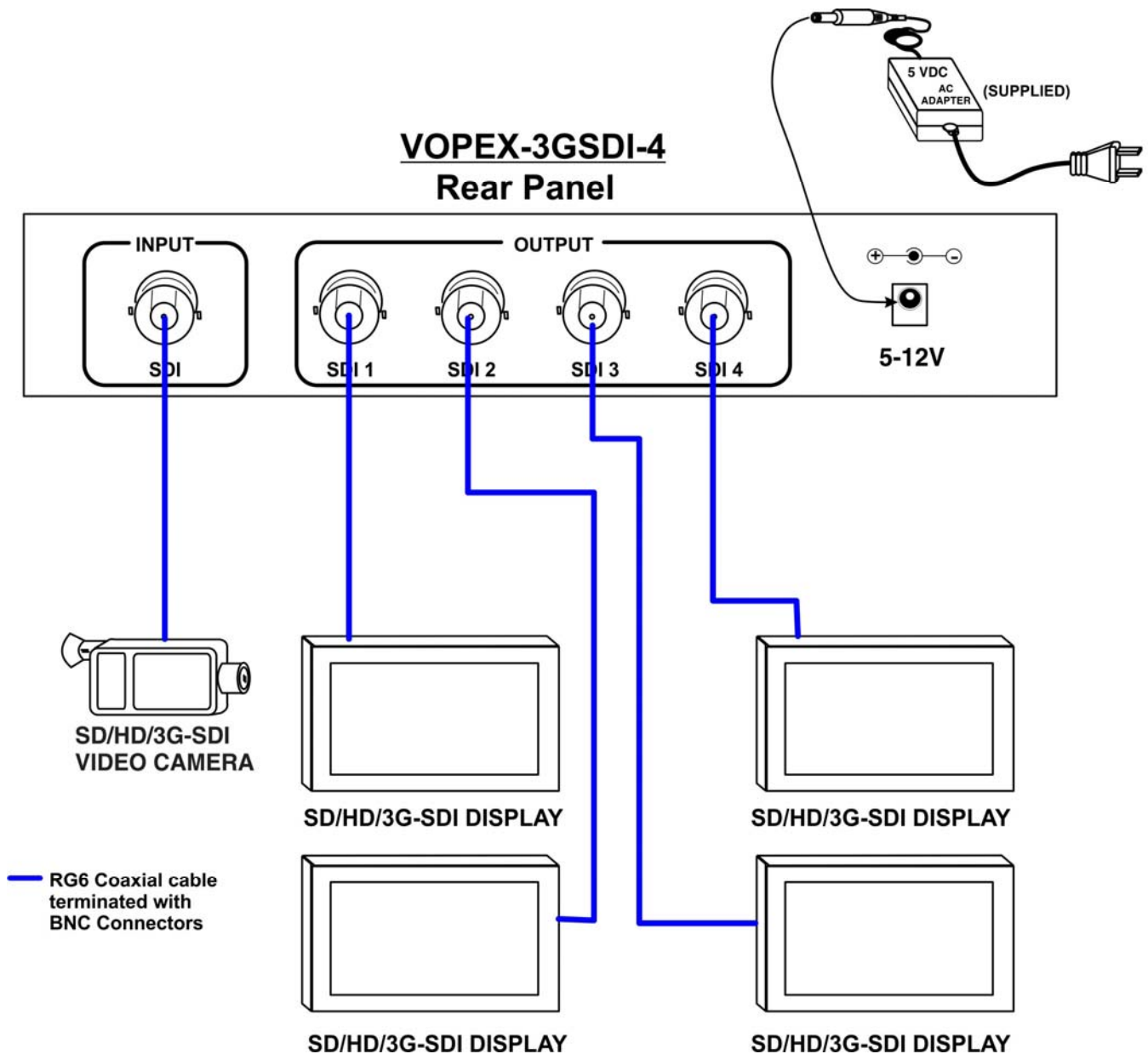
Rear Panel



#	LABEL	CONNECTOR/LED	DESCRIPTION
1	ON/OFF	Button	to power the unit ON/OFF
2	POWER	Red LED	illuminates to indicate proper power to the unit
3	LOCK	Red LED	illuminates to indicate SDI signal is connected to the INPUT
4	INPUT	BNC Female Connector	for connection of SDI video source
5	OUTPUT	BNC Female Connector	for connection of SDI displays
6	5-12V	2.1x5.5mm Power Jack	for connection of power supply with 5-12VDC output voltage

Installation

1. Connect the SD/HD/3G-SDI video source to "SDI INPUT" using 75 Ohm RG6 BNC cable.
2. Connect up to four SD/HD/3G-SDI displays to the "SDI x OUTPUT" ports (where x is 1-4) using 75 Ohm RG6 BNC cables.
3. Connect the power supply and power up the VOPEX, video source and displays (in any order).



Specifications

Resolution	HDTV resolutions to 1080p @ 60Hz
Video Input Connector	One female BNC connector for SD/HD/3G-SDI video source
Video Output Connectors	Four female BNC connectors for SD/HD/3G-SDI displays.
Video bandwidth	<ul style="list-style-type: none"> ○ 3G-SDI: 2.97 Gbps ○ HD-SDI: 1.485 Gbps ○ SD-SDI: 270 Mbps
Impedance	75 Ohm
Protocols supported	SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 424M, SMPTE 425M Level A, and ITU-R BT.656/BT.601
Color space	RGB, YCbCr 4:4:4, YCbCr 4:2:2
Color depth	8-bit, 10-bit, 12-bit
Operational Range	5VDC to 12VDC
Power Supply	100-240VAC, 50/60Hz ; 5VDC 3A AC Adapter
Power Consumption	1.32W @5VDC
Environmental	Operation: 32 to 104°F (0 to 40°C) Storage: -4 to 158°F (-20 to 70°C) Humidity: 20 to 90% non-condensing RH
Dimensions WxDxH (In.)	5.79x3.54x0.99 (147x90x25 mm)
Weight	1.0625 lb
Agency Approvals	RoHS, CE ,FCC

Cables

- Interface cables between the video source/displays and the splitter are required for proper operation.
- RG6 75 Ohm coaxial cable terminated with BNC connectors are recommended for use.
- Cables are not included.

Warranty Information

The warranty period on this product (parts and labor) is two (2) years from the date of purchase. Please contact Network Technologies Inc at **(800) 742-8324** (800-RGB-TECH) or **(330) 562-7070** or visit our website at <http://www.networktechinc.com> for information regarding repairs and/or returns. A return authorization number is required for all repairs/returns.

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