

## 4 Port Component Video Switch with RS-232

VS421CPNTA



\*actual product may vary from photos

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## FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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# Introduction

Thank you for purchasing a StarTech.com 4 Port Component A/V Switcher with RS-232. Designed to provide simple, efficient switching between Composite/HD video sources as well as S/PDIF(digital) or RCA (analog) audio, VS421CPNTA is the ideal choice for using multiple composite or component video sources with a single standard or high definition display, with support for HDTV display resolutions of 480i, 576i, 480p, 576p, 720p, 1080i and 1080p. As an additional convenience, VS421CPNTA can be controlled using a serial connection, the front panel push-buttons, or the included IR Remote control.

## Features

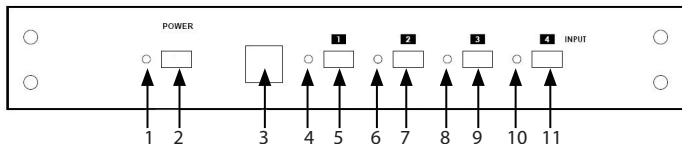
- Video bandwidth of 650 MHz at -3dB
- Plug and play installation
- IR remote control
- Supports serial control

## Package Content

- 4x1 Component Switcher with RS232
- Remote Control
- 6ft (1.8m) Component Cable
- 6ft (1.8m) RCA Audio Cable
- Universal Power Adapter (NA/UK/EU/AUS)
- Instruction Manual

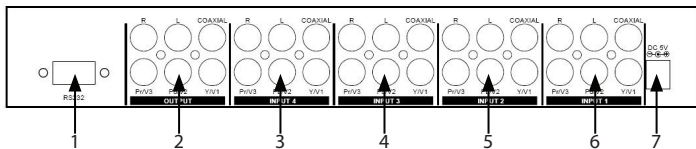
# Operation Controls and Functions

## Front Panel



1. Power indicator LED
2. Power: Press the POWER button to turn the unit on/off
3. IR sensor: Infrared remote control sensor
4. Input 1 Indicator LED
5. Input 1: Press this button to switch to input #1. The corresponding LED (see 4.) will illuminate
6. Input 2 Indicator LED
7. Input 2: Press this button to switch to input #2. The corresponding LED (see 6.) will illuminate
8. Input 3 Indicator LED
9. Input 3: Press this button to switch to input #3. The corresponding LED (see 8.) will illuminate
10. Input 4 Indicator LED
11. Input 4: Press this button to switch to input #4. The corresponding LED (see 10.) will illuminate

## Rear Panel



1. RS232: 9-pin D-sub female connector for connecting Serial based remote control devices
2. YUV/Composite output: Use a 3 RCA to 3 RCA cable to connect to the intended display
3. YUV/Composite Input 4: Use a 3 RCA to 3 RCA cable to connect to input source #4
4. YUV/Composite Input 3 : Use a 3 RCA to 3 RCA cable to connect to input source #3.
5. YUV/Composite Input 2 : Use a 3 RCA to 3 RCA cable to connect to input source #2
6. YUV/Composite Input 1 : Use a 3 RCA to 3 RCA cable to connect to input source #1
7. DC power jack: 5V 1A power input, center +.

## Serial Control

The following command codes can be used to control VS421CPNTA via a serial connection from a host computer/terminal. Please note that "I" and "P" refer to capital letters.

\* RS-232 transmission format:

Baud Rate : 9600 bps

Data Bit : 8 bits

Parity : None

Stop Bit : 1 bit

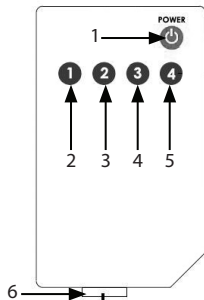
\*\*Please note:

Quotation marks are not required.

Command Code	Result
"I" + "1"	PORT 1 ON
"I" + "2"	PORT 2 ON
"I" + "3"	PORT 3 ON
"I" + "4"	PORT 4 ON
"P" + "1"	POWER ON
"P" + "0"	POWER OFF

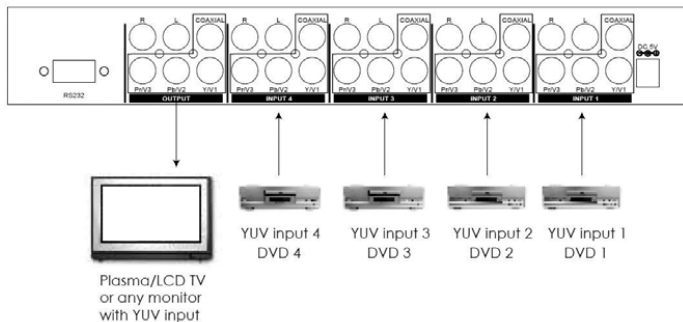
## Remote Control

1. Power: Switch between power ON and Standby
2. Press button 1 to select input source #1
3. Press button 2 to select input source #2
4. Press button 3 to select input source #3
5. Press button 4 to select input source #4
6. Battery Protector Tab - remove upon first use

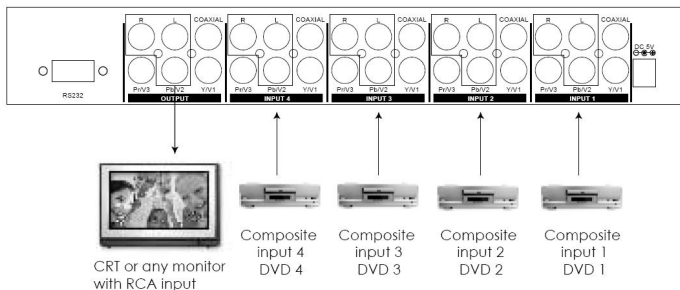


## Connection and Installation

### 4-In 1-Out HD Switcher for Sharing One HDTV Display



# 4-In 1-Out Composite Switcher for Sharing One SDTV Display





# Specifications

Input	
<b>Connectors</b>	YUV(YPbPr) x 4 via 3 RCA connectors 1 Vp-p @ 75 $\Omega$ Composite Video x 4 via RCA connectors 1Vp-p @ 75 $\Omega$ S/PDIF (Digital format) x 4 via coaxial connectors/0.5~1 Vp-p@75 $\Omega$ load, 96KHz performance Stereo L/R(Analog format) x 4 via 2 RCA connectors DB-9 (RS-232) x 1 (for serial remote control)
Output	
<b>Connectors</b>	YUV (YPbPr) x 1 via 3 RCA connectors 1 Vp-p @ 75 ohm Composite Video x 1 via RCA connectors 1 Vp-p @ 75 ohm S/PDIF (Digital format) x 4 via coaxial connectors/0.5~1 Vp-p@75 ohm load, 96KHz performance Stereo L/R (Analog format) x 1 via 2 RCA connectors
<b>Bandwidth</b>	650MHz (-3dB)
<b>Differential gain</b>	0.05%
<b>Differential phase</b>	0.05% degree
<b>Power consumption</b>	5W(max)
<b>Dimensions</b>	292(W) x 176(D) x 47.5(H)mm
<b>Weight</b>	1.5Kg

# Technical Support

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For the latest drivers/software, please visit [www.startech.com/downloads](http://www.startech.com/downloads)

## Warranty Information

This product is backed by a two year warranty.

In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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