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## VS-21TS Quick Start Guide

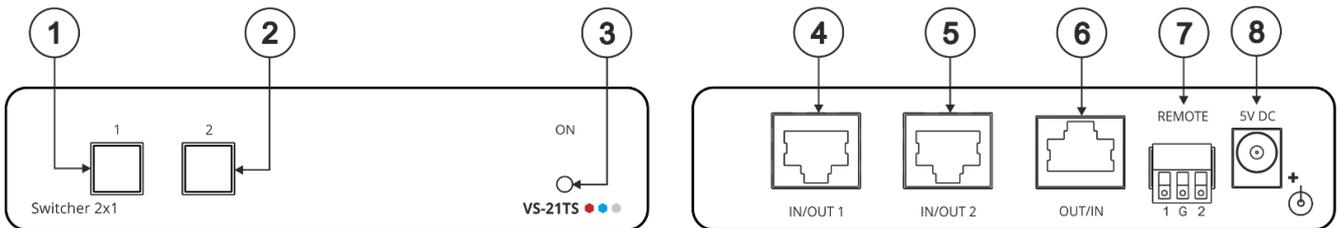
This guide helps you install and use your **VS-21TS** for the first time.

Go to [www.kramerav.com/downloads/VS-21TS](http://www.kramerav.com/downloads/VS-21TS) to download the latest user manual and check if firmware upgrades are available.

### Step 1: Check what's in the box

- ✓ VS-21TS Switcher 2x1
- ✓ 1 Power adapter and cord
- ✓ 4 Rubber feet
- ✓ 1 Quick start guide
- ✓ 1 Bracket set

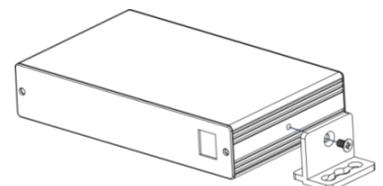
### Step 2: Get to know your VS-21TS



#	Feature	Function
1	1 Button	<p>If a transmitter is connected to IN/OUT 1 and a receiver is connected to OUT/IN, press to route the transmitter Ethernet/HDBT signals + PoE to the receiver.</p> <p>If a receiver is connected to IN/OUT 1 and a transmitter is connected to OUT/IN, press to route the OUT/IN Ethernet/HDBT signals + PoE to the IN/OUT 1 receiver only.</p> <p>When selected, this button is illuminated.</p>
2	2 Button	<p>If a transmitter is connected to IN/OUT 2 and a receiver is connected to OUT/IN, press to route the transmitter Ethernet/HDBT signals + PoE to the receiver.</p> <p>If a receiver is connected to IN/OUT 2 and a transmitter is connected to OUT/IN, press to route the OUT/IN Ethernet/HDBT signals + PoE to the IN/OUT 2 receiver only.</p> <p>When selected, this button is illuminated.</p>
3	ON LED	Lights green when the device is powered.
4	IN/OUT 1 RJ-45 Connector	Connect to an Ethernet or HDBT transmitter / receiver.
5	IN/OUT 2 RJ-45 Connector	Connect to an Ethernet or HDBT transmitter / receiver.
6	OUT/IN RJ-45 Connector	Connect to an Ethernet or HDBT receiver / transmitter.
7	REMOTE 3-pin Terminal Block Connector	Connect to remote contact-closure switches for remote control.
8	5V DC Power Connector	5V DC connector for powering the unit.

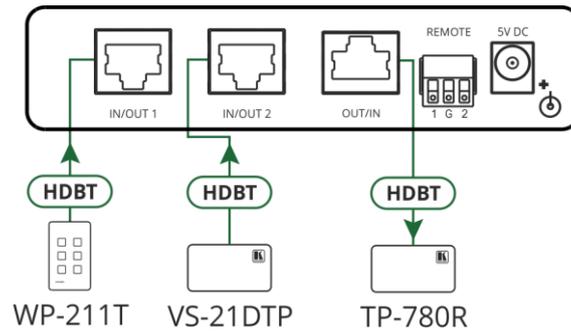
### Step 3: Install VS-21TS

Install **VS-21TS** using one of the following methods:  
 Attach the rubber feet and place the unit on a flat surface.  
 Fasten a bracket (included) on each side of the unit and attach it to a flat surface. For more information go to [www.kramerav.com/downloads/VS-21TS](http://www.kramerav.com/downloads/VS-21TS).  
 Mount the unit in a rack using the recommended rack adapter (see [www.kramerav.com/product/VS-21TS](http://www.kramerav.com/product/VS-21TS)).



## Step 4: Connect the inputs and outputs

Always switch OFF the power on each device before connecting it to your **VS-21TS**. For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to **VS-21TS**. You can connect either Ethernet or HDBT sources and acceptors.



## Step 5: Connect the power

Connect the 5V DC power adapter to **VS-21TS** and plug it into the mains electricity. Upon power up, IN/OUT 1 is automatically routed to OUT/IN.

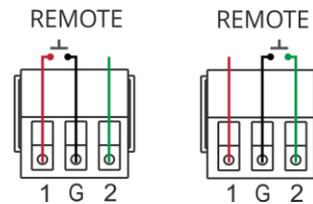
### Safety Instructions



- Caution:** There are no operator serviceable parts inside the unit.
  - Warning:** Use only the Kramer Electronics power adapter that is provided with the unit.
  - Warning:** Disconnect the power and unplug the unit from the wall before installing.
- See [www.KramerAV.com](http://www.KramerAV.com) for updated safety information.

## Step 6: Operate VS-21TS

Select an input (IN/OUT 1 or IN/OUT 2) via the contact closure remote control (also known as push-to-make momentary contact). To do so, momentarily connect the required pin on the REMOTE terminal block connector to the G (Ground) pin. For example, to select IN/OUT 1, momentarily connect pin 1 to the G pin. To select IN/OUT 2, momentarily connect pin 2 to the G pin.



## Technical Specifications

Input/Output	2 HDBaseT Signal / Ethernet	On RJ-45 connectors
Output/Input	1 HDBaseT Signal / Ethernet	On an RJ-45 connector
Controls	Front Panel	IN/OUT 1, IN/OUT 2 illuminated selection buttons
	Rear Panel	Terminal block for connecting to 2 remote contact closure buttons
Pass-through Data (HDBT/Ethernet)	Max. Data Rate	10Gbps
	Max. Video Resolution (HDBT)	4K@60Hz (4:2:0)
	Standards Compliance	HDCP 2.2
Power	Consumption	5V DC, 30mA
	Source	5.2V DC, 4A
Environmental Conditions	Operating Temperature	0° to +40°C (32° to 104°F)
	Storage Temperature	-40° to +70°C (-40° to 158°F)
	Humidity	10% to 90%, RHL non-condensing
Regulatory Compliance	Safety	CE
	Environmental	RoHs, WEEE
Enclosure	Size	Tool
	Type	Aluminum
	Cooling	Convection ventilation
General	Net Dimensions (W, D, H)	12cm x 7.2cm x 2.4cm (4.7" x 2.8" x 0.94")
	Shipping Dimensions (W, D, H)	15.7cm x 12cm x 8.7cm (6.2" x 4.7" x 3.4")
	Net Weight, each	0.2kg (0.44lbs) approx.
	Shipping Weight	0.7 kg (1.5lbs) approx.
Accessories	Included	1 Power adapter, 1 power cord

Specifications are subject to change without notice at [www.kramerav.com](http://www.kramerav.com)