

Product Contents

- 1x VWS-21T(US)
- 4x Mounting Screws
- 1x 2-pole Terminal Block
- 1x 4-pole Terminal Block
- 1x Top Cover
- 1x Reference Guide

Safety Suggestions

Read and Follow Instructions. Read all safety and operating instructions before operating the unit.
Retain Instructions. Keep the safety and operating instructions for future reference.
Heed Warnings. Adhere to all warnings on the unit and in the operating instructions.
Heat. Keep the unit away from heat sources such as radiators, heat registers, stoves, etc., including amplifiers that produce heat.
Power Sources. Connect the unit only to a power supply of the type described in the operating instructions, or as marked on the unit.
Power Cord Protection. Route power supply cords so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to the cord plugs at power receptacles and at the point at which they exit from the unit.
Water and Moisture. Do not use the unit near water—for example, near a sink, in a wet basement, near a swimming pool, near an open window, etc.
Object and Liquid Entry. Do not allow objects to fall or liquids to be spilled into the enclosure through openings.
Servicing. Do not attempt any service beyond that described in the operating instructions. Refer all other service needs to qualified service personnel.
Damage Requiring Service. The unit should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged.
- Objects have fallen or liquid has been spilled into the unit.
- The unit has been exposed to rain.
- The unit does not appear to operate normally or exhibits a marked change in performance.
- The unit has been dropped or the enclosure has been damaged.

Cleaning

To clean this product, lightly dampen a lint-free cloth with plain water or a mild detergent and wipe the outer surfaces.
NOTE: Do not use harsh chemicals as damage to the unit may occur.

Federal Communications Commission Notice

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. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.
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 the 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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference.
2. This device must accept any interference received including interference that may cause undesired operation.

Industry Canada Compliance Statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:
1. This device may not cause harmful interference.
2. This device must accept any interference received including interference that may cause undesired operation.
Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s). Son fonctionnement est soumis aux deux conditions suivantes:
1. Ce dispositif ne peut causer des interférences nuisibles.
2. Cet appareil doit accepter toute interférence reçue y compris des interférences qui peuvent provoquer un fonctionnement indésirable.



DECLARATION OF CONFORMITY (DOC)
The Declaration of Conformity for this product can be found on the RTI website at: www.rticorp.com/declaration

Contacting RTI

For news about the latest updates, new product information, and new accessories, please visit our web site at: www.rticorp.com

For general information, you can contact RTI at:
Remote Technologies Incorporated
5775 12th Ave. E Suite 180
Shakopee, MN 55379
Tel. (952) 253-3100
Fax (952) 253-3131
info@rticorp.com

Service & Support

If you are encountering any problems or have a question about your RTI product, please contact RTI Technical Support for assistance (see the Contacting RTI section of this guide for contact details).
RTI provides technical support by telephone or e-mail. For the highest quality service, please have the following information ready:

- Your Name
- Company Name
- Telephone Number
- E-mail Address
- Product model and serial number (if applicable)

If you are having a problem with hardware, please note the equipment in your system, a description of the problem, and any troubleshooting you have already tried.
Please do not return products to RTI without return authorization.

Limited Warranty

RTI warrants new products for a period of three (3) years (excluding consumables such as rechargeable batteries which are warrantied for one (1) year) from the date of purchase by the original purchaser (end user) directly from RTI / Pro Control (herein referred to as "RTI"), or an authorized RTI dealer.
Warranty claims may be initiated by an authorized RTI dealer using the original dated sales receipt or other proof of warranty coverage. In the absence of the receipt of purchase from the original dealer, RTI will provide warranty coverage extension of six (6) months from the date code of the product. Note: RTI warranty is limited to the provisions set forth in this policy and does not preclude any other warranties offered by third parties who are solely responsible for those other warranties.

Except as specified below, this warranty covers defects in product material and workmanship. The following are not covered by the warranty:

- Product purchased via unauthorized sellers or internet sites will not be serviced- regardless of purchase date.
- Damages caused by accident, misuse, abuse, neglect or acts of God.
- Cosmetic damage, including, but not limited to, scratches, dents and normal wear and tear.
- Failure to follow instructions contained in the Product Installation Guide.
- Damages due to products used in an application or environment other than that for which it was intended, improper installation procedures or adverse environmental factors such as incorrect line voltages, improper wiring, or insufficient ventilation.
- Repair or attempted repair by anyone other than RTI and Pro Control or authorized service partners.
- Failure to perform recommended periodic maintenance.
- Causes other than product defects, including lack of skill, competence or experience of user.
- Damage due to shipment of this product (claims must be made to the carrier).
- Altered unit or altered serial number: defaced, modified or removed.

RTI is also not liable for:

- Damages caused by its products or for failure of its products to perform, including any labor costs, lost profits, lost savings, incidental damages, or consequential damages.
- Damages based upon inconvenience, loss of use of the product, loss of time, interrupted operation, commercial loss, any claim made by a third party or made on behalf of a third party.
- Loss of, or damage to, data, computer systems or computer programs.

RTI's liability for any defective product is limited to repair or replacement of the product, at the sole discretion of RTI.
In cases where the warranty policy conflicts with local laws, the local laws will be adopted.

RTI

VWS-21T(US)

2x1 HDBaseT Video Transmitter Wall Plate

Reference Guide



VWS-21T 2x1 Video Transmitter Wall Plate (US)

The VWS-21T is 2x1 wall plate HDBaseT transmitter for switching and extending HDMI or VGA video and audio to a display or projector. The transmission distance is up to 40m@4K and 70m@1080p over a single Cat5e/6/7 cable based on Certified HDBaseT technology. The resolution of HDMI input is up to 4K/UHD@60Hz 4:2:0 and VGA input up to 1920x1200.

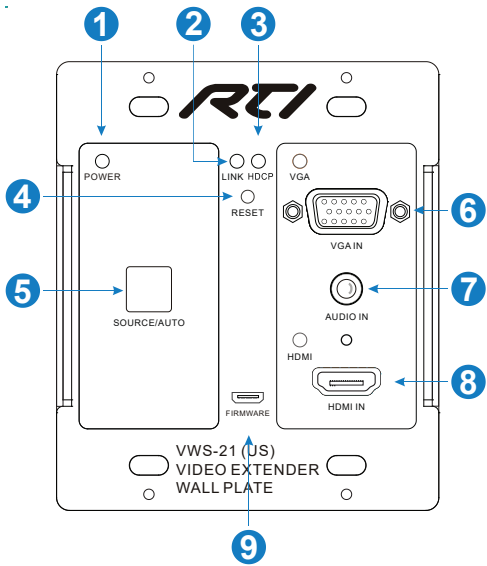
The VWS-21T is ideal for huddle rooms, classrooms and small conference rooms. The wall-mountable design provides the convenience of placing input connections precisely where they are needed.

The VWS-21T provides superior quality and reliability as well as these features:

- Features one HDMI input and one VGA input with a 3.5mm analogue audio input.
- Supports HDMI signal up to 4K@60Hz 4:2:0 and VGA signal up to 1920 x 1200.
- Built-in scaling function to match signals to display native resolution.
- Ensures display of content-protected media and interoperability with other HDCP compliant devices.
- Audio signal can be selectively embedded into the video output.
- HDBaseT technology extends HDMI and VGA video, audio and control signals up to 70m over CAT5e/6/7 cable.
- Automatically detect active inputs when sources are connected.
- Flexible control options for compatibility with third-party systems, matrix switchers and receivers.
- Supports RS-232 pass-through with HDBaseT connection and local control.
- PoH(power over HDBaseT) allows powering from the receiver at the display end.

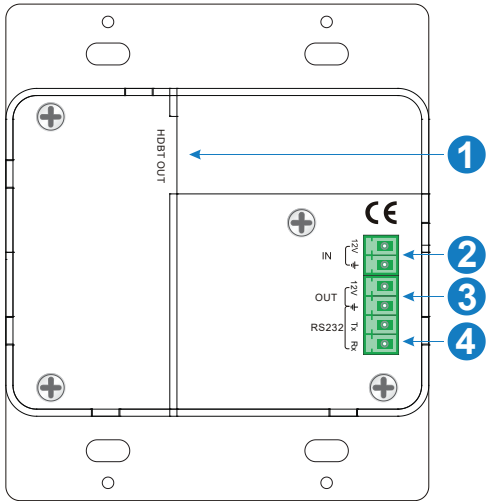
Installation & Operation

FRONT PANEL DESCRIPTION



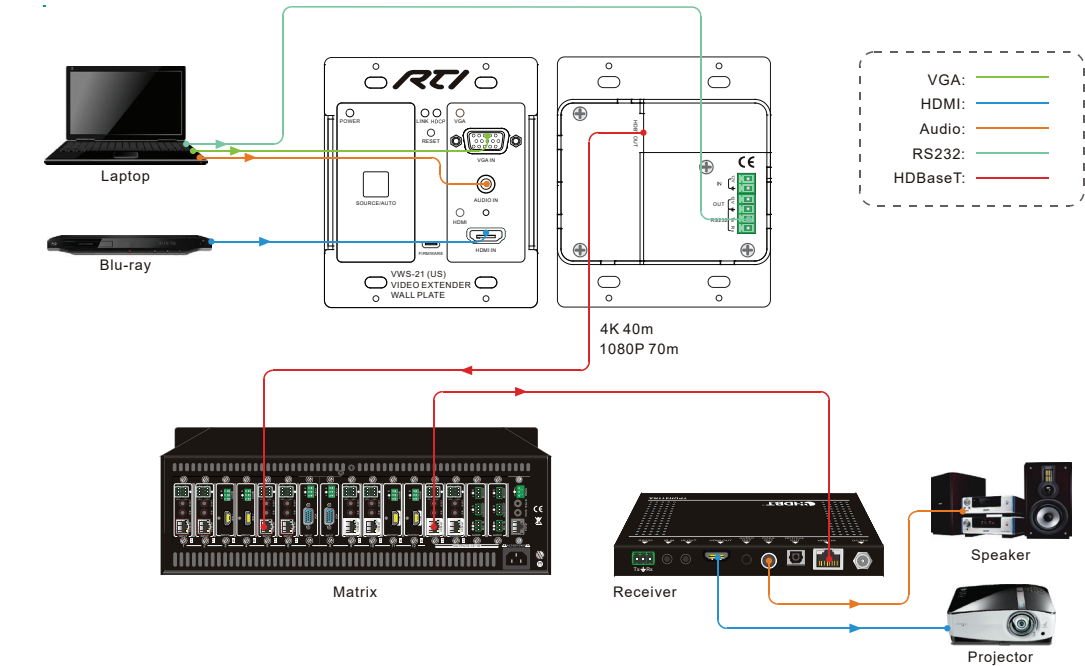
No.	Name	Function
1	Power Indicator	Turns red when power on.
2	LINK Indicator	Turns blue when the transmitter/matrix and the receiver are connected successfully.
3	HDCP Indicator	Turns blue when an HDCP link is established.
4	RESET	Press the button to reboot this unit.
5	SOURCE/AUTO	- Press the button to switch input signal manually between HDMI and VGA sources. - Press and hold the button at least 3 seconds to enter auto-switching mode. Press and hold again can exit.
6	VGA IN and VGA Indicator	- VGA IN: DB9 connector to connect a VGA source device. - VGA Indicator: Turns orange when the VGA input port is connected to a source device, and it will turns blue once the device is selected as input source.
7	AUDIO IN	3.5mm jack to connect audio source device to provide audio for the VGA input video.
8	HDMI IN and HDMI Indicator	- HDMI IN: Type-A HDMI connector to connect a HDMI source device. - HDMI Indicator: Turns orange when the HDMI input port is connected to a source device, and it will turns blue once the device is selected as input source.
9	FIRMWARE	Micro-USB port for firmware upgrade.

REAR PANEL DESCRIPTION



No.	Name	Function
1	HDBT OUT	RJ45 HDBaseT output port to connect to the HDBaseT input port of the compatible receiver by CATx cable.
2	12V Power In	Power port to connect the 12VDC power adapter.
3	12V Power Out	2-pole captive screw connector to connect a compatible device which needs to be powered.
4	RS-232	3-pole captive screw connector for RS-232 pass-through control. It can be connected with control system (Use a 3-pole captive to 9 pin female D connector), or connected with the device which needs to be controlled.

CONNECTION DIAGRAM



BUTTON CONTROL

Press and hold the **SOURCE/AUTO** button for 3 seconds. When the button lights up green the VWS-21T is in AUTO mode. This mode automatically selects the last video source connected to the VWS-21T and outputs it to the display. Press and hold again for approximately 3 seconds, the light will go out, and the device will be in Manual mode which will allow the user to momentarily press the button to toggle between the two sources.

RS-232 CONTROL

To control the VWS-21T using serial communication from a control system, wire the RS-232 output of the control system to the RS-232 connector.

- Baud rate: 9600
- Data bit: 8
- Stop bit: 1
- Parity bit: none

INSTALLATION

Please visit the RTI dealer portal (www.rticorp.com/dealer) for additional instructions and specifications.
NOTE: Features and specifications subject to change without notice.