

## RX-1

### 4K Presentation Switch Receiver



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Version: RX1\_2021V1.2

### Preface

Read this user manual carefully before using the product. Pictures are shown in this manual for reference only. Different models and specifications are subject to real product.

This manual is only for operation instruction, please contact the local distributor for maintenance assistance. The functions described in this version were updated till March, 2021. In the constant effort to improve the product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

### FCC Statement

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. It 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 commercial installation.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at their own expense will be required to take whatever measures may be necessary to correct the interference.

Any changes or modifications not expressly approved by the manufacture would void the user's authority to operate the equipment.



## **SAFETY PRECAUTIONS**

To ensure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Unpack the equipment carefully and save the original box and packing material for possible future shipment.
- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burn.
- Using supplies or parts not meeting the specifications of product may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Do not put any heavy items on the extension cable in case of extrusion.
- Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
- Install the device in a place with fine ventilation to avoid damage caused by overheat.
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time.
- Information on disposal for scrapped devices: do not burn or mix with general household waste, and please treat them as normal electrical wastes.

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## 1. Product Introduction

The Stoltzen RX-1 is a HDBaseT receiver for HERA series HDBT Transmitters. It can support various transmitter-models, and adds a extra HDMI input, as well as 2x USB2.0 ports, RS232- and Relay ports.

For extended information on usage, systemdesign and functions, please refer to the manual of the Transmitter of your choice.

## 2. Package list

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<b>Receiver</b>	▪ 1x Stoltzen RX1 Receiver
	▪ 2x Mounting Ears with 2 Screws
	▪ 4x Plastic Cushions
	▪ 1x 4-pin Terminal Blocks
	▪ 1x 5-pin Terminal Blocks
	▪ 1x RS232 Cable (3-pin terminal Blocks to DB9)
	▪ 1x Power Adapter (24VDC,2.71A)
	▪ 1x User Manual

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## 3. Product information

### 3.1 Specifications

<b>Video</b>	
Video Input	(1) HDBT IN; (1) HDMI IN
Video Input Connector	(1) RJ45; (1) Female HDMI Type A
Input Resolution	HDBT: Up to 4K@60Hz 4:2:0 HDMI: Up to 4K@60Hz 4:4:4 8bit
Video Output	(1) HDMI OUT
Video Output Connector	(1) Female HDMI Type A
Output Resolution	HDMI: Up to 4K@60Hz 4:4:4
Standards	Compliant with HDMI 2.0 & up to HDCP2.2
<b>Audio</b>	
Audio Output	(1) Stereo balanced L/R audio
Audio Output Connector	(1) 5-pin terminal connector
Frequency Response	20 Hz to 20 kHz, $\pm 1$ dB
Max output level	$2.2 \pm 0.1$ Vrms
THD+N	< 0.05%, 20Hz – 20kHz bandwidth, 1kHz sine at 0dBFS level (or max level)
Signal-to-Noise Ratio	> 80dB, 20Hz-20 kHz bandwidth
Crosstalk isolation	> 70dB, 10kHz sine at 0dBFS level (or max level before clipping)
L-R level deviation	< 0.3dB, 1kHz sine at 0dBFS level (or max level before clipping)
Output load capability	1kohm and higher (supports 10x paralleled 10k ohm loads)

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Noise	-80dB
<b>Control Part</b>	
Control port	(1) RS232; (2) RELAY
Control Connector	(1) 3-pin terminal connector (1) 4-pin terminal connector
<b>General</b>	
Transmission Distance	1080P@70m /4K@40m
Operation Temperature	-5 ~ +55°C
Storage Temperature	-25 ~ +70°C
Relative Humidity	10% ~ 90%
External Power Supply	Input: AC 100~240V, 50/60Hz; Output: 24V DC 2.71A
System Power Consumption	32w (Transmitter & Receiver)
Dimension (W*H*D)	205 mm x 27.5 mm x 115 mm
Net Weight	390g

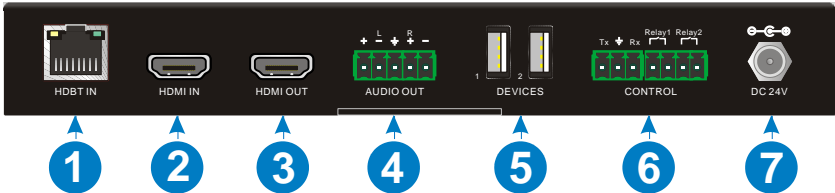
## 3.2 Design

### 3.2.1 Front Panel



- ① **POWER LED:** The LED illuminates red when power is applied.
- ② **HDBT LED:** The LED illuminates green when HDBT input is selected.
- ③ **HDMI LED:** The LED illuminates green when HDMI input is selected.
- ④ **FIRMWARE:** Micro USB port for updating system firmware.

### 3.2.2 Rear Panel



- ① **HDBT IN:** Connect to the HDBT OUT port on Transmitter via CATx cable, supports two ways 24V PoC technology.
- ② **HDMI IN:** HDMI video input.
- ③ **HDMI OUT:** HDMI video output.
- ④ **AUDIO OUT:** Stereo balanced L/R audio output port.
- ⑤ **DEVICES:** Two Type-A USB ports, connect with USB devices.
- ⑥ **RS232:** Serial port, 3-pin terminal connector, connect with the display device (such as projector).  
**RELAY1 & RELAY2:** Connect to device (such as projector screen)
- ⑦ **DC 24V:** DC barrel connector for connecting the included power adapter

## 4. Troubleshooting and Maintenance

Problems	Potential Causes	Solutions
Output image with snowflake	Bad quality of the connecting cable	Try another high quality cable.
	Fail or loose connection	Make sure the connection is good
No output image when switching	No signal at the input / output end	Check with oscilloscope or multimeter, if there is any signal at the input/output end.
	Fail or loose connection	Make sure the connection is good
	The switcher is broken	Send it to authorized dealer for repairing.
<b>POWER</b> indicator doesn't work or no respond to any operation	Fail connection of power cord.	Make sure the power cord connection is good.
Cannot control the device by control device (e.g. a PC) through RS232 port	Wrong RS232 communication parameters	Type in correct RS232 communication parameters.
	Broken RS232 port	Send it to authorized dealer for checking.

If your problem still remaining after following the above troubleshooting steps, please find further assistance.



### Customer Service

The return of a product to our Customer Service implies the full agreement of the terms and conditions hereinafter. These terms and conditions may be changed without prior notice.

#### 1) Warranty

The limited warranty period of the product is three years.

#### 2) Scope

These terms and conditions of Customer Service apply to the customer service provided for the products or any other items sold by authorized distributor only.

#### 3) Warranty Exclusions:

- Warranty expiration.
- Factory applied serial number has been altered or removed from the product.
- Damage, deterioration or malfunction caused by:
  - ✓ Normal wear and tear.
  - ✓ Use of supplies or parts not meeting our specifications.
  - ✓ No certificate or invoice as the proof of warranty.
  - ✓ The product model showed on the warranty card does not match with the model of the product for repairing or had been altered.
  - ✓ Damage caused by force majeure.
  - ✓ Servicing not authorized by distributor.
  - ✓ Any other causes which does not relate to a product defect.
- Shipping fees, installation or labor charges for installation or setup of the product.

#### 4) Documentation:

Customer Service will accept defective product(s) in the scope of warranty coverage at the sole condition that the defeat has been clearly defined, and upon reception of the documents or copy of invoice, indicating the date of purchase, the type of product, the serial number, and the name of distributor.

**Remarks:** For further assistance or solutions, please contact your local distributor.