

PRO-SIGNAL



HDBIT HDMI EXTENDER MATRIX PSG3456

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Please read these instructions carefully before use and retain for future reference.

IMPORTANT SAFETY INFORMATION

When using electrical appliances basic safety precautions should always be followed.

- To prevent fire or shock hazard, do not expose this product to rain or moisture.
- Check that the power supply matches the mains voltage.
- Only use the power supply provided or one of identical specification.
- Ensure the IR remote extender cables are connected to the correct devices.
- Beware of static electricity which may damage the device. Use ESD precautions when installing.
- Do not plug or unplug cables while the devices are powered on.

WHAT'S INCLUDED

- 1 x HDMI Extender and 1 x Receiver
- 2 x Power Adapter 230VAC to 5VDC 2A
- Operation Manual
- IR remote extender
- IR remote receiver
- Remote control
- 4 x Mounting brackets and 8 x screws

FEATURES

- Based on HDBitT technology for a more stable performance.
- Supports up to 1080p@60Hz Full HD.
- Supports 1 to 1 and 1 to many using off-the-shelf IGMP switch.
- Transmission up to 120 metres.
- HDMI 1.4 and HDCP 2.0 compliant.
- Supports IR pass back for control from receiver location.
- Simple plug and play installation.

CAT CABLE REQUIREMENT

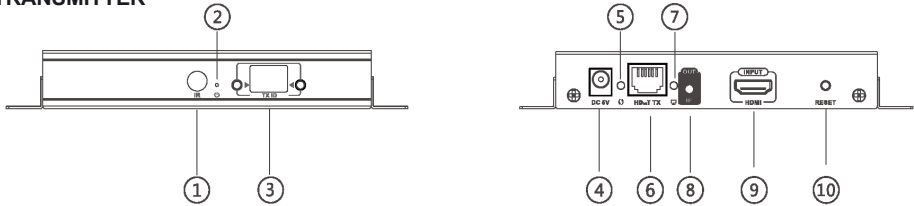
Follow the standard of IEEE-568B, It is recommended to select a high quality network cable with less loss and crosstalk.

- | | |
|----------------|---------------|
| 1 orange/white | 5 Blue/white |
| 2 orange | 6 Green |
| 3 Green/white | 7 Brown/white |
| 4 Blue | 8 Brown |



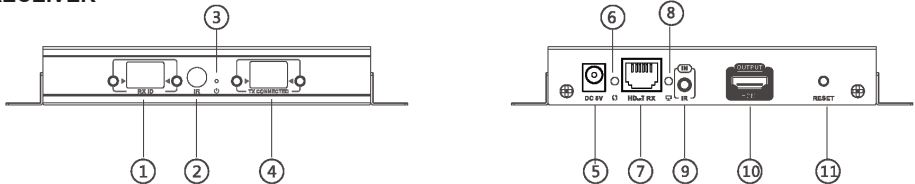
OVERVIEW

TRANSMITTER



1. IR receiver window - Receiver IR signal from remote control.
2. Power indicator - LED for power on indication.
3. TX indicator - Indicates current transmission channel ID.
4. Power input - connect the PSU 5VDC connector.
5. Data transmission indicator.
6. RJ45 output connector.
7. Connection LED - illuminates when transmitter/receiver are connected.
8. IR extender emitter connection - to control the source device.
9. HDMI input - connect to the source device HDMI output.
10. Reset Button

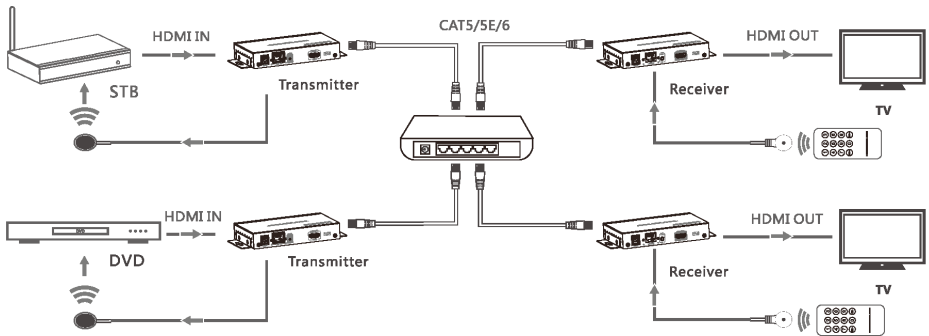
RECEIVER



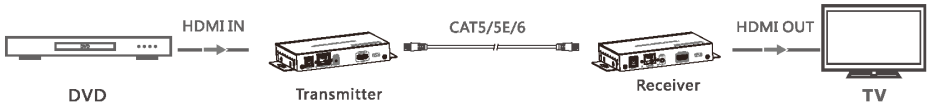
1. RX indicator - Indicates current transmission channel ID.
2. IR receiver window - Receiver IR signal from remote control.
3. Power indicator - LED for power on indication.
4. TX connected - Indicates current input channel ID when matched to TX ID transmission is enabled.
5. Power input - connect the PSU 5VDC connector.
6. Data transmission indicator - flashes slowly when connecting then faster during data transmission.
7. RJ45 input connector.
8. Connection LED - illuminates when transmitter/receiver are connected.
9. IR extender receiver connection - to pick up signal from the remote control.
10. HDMI output - connect to the destination display device HDMI input.
11. Reset button - press to reset the unit.

INSTALLATION

MATRIX CONFIGURATION



POINT TO POINT CONFIGURATION



OPERATION

IR User Guide:

- IR receiver extension cable should be connected to the IR IN port of the receiver.
- The IR emitter extension cable should be connected to the IR OUT port of the transmitter.
- The emitter of the IR extension cable should face as close as possible to the IR receiving window of the source device.
- Face the receiving head of the IR receiver extension cable toward the user for unobstructed line of sight to the remote control.
- The IR receiver detects the user's remote control and transmits the signal down the network cable to the IR emitter which replicates the IR output to control the source device.

Button Control:

- There is a "TX ID" display on the transmitter, and there are both TX CONNECTED and RX ID displays on the receiver unit, each of which has a 2 digit display plus 2 adjacent buttons which adjust each digit.
- Values can be adjusted from 00 through to 99 by repeated button presses.
- Each receiver can be assigned an RX ID number and when the TX ID channel set on the transmitter matches the TX CONNECTED on the receiver the channel is connected.
- Short press: Press to set IGMP group and display the current set value. The unit switches automatically to the corresponding IGMP group 5 seconds after the press.
- Long press: Press and hold for 3 seconds to reset the unit.

Computer software control:

- Connect a PC to the IGMP Ethernet switch using CAT network patch lead
- Download the application "HDbitt E-Matrix Control Centre" from <http://www.hdbitt.com/download-matrix/>
- Change the PC's IP address to 192.168.1.XXX (to match the IP address of the TX and RX units and run the program).

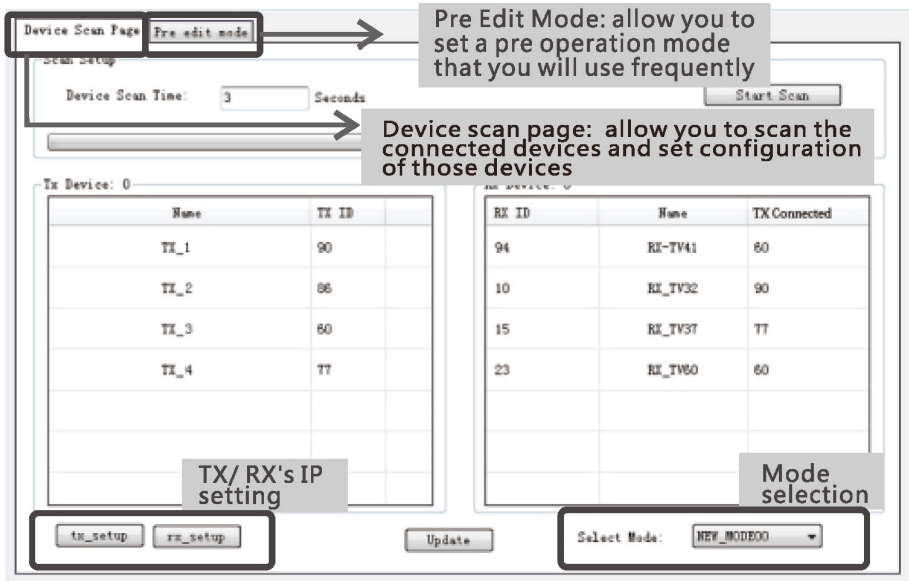


Figure 1

IP setting

- TX and RX units have their own default IP address, TX's IP is 192.168.1.238, and RX's IP is 192.168.1.239. Generally, it is not need to change the device IP address, as the system can work normally even though multiple TX units and multiple RX units connected into the system with their default IP address.
- If IP setting is really needed, please follow up the operation as Figure 2 (example of TX's IP setting shown, RX 's setting is the same as TX's)

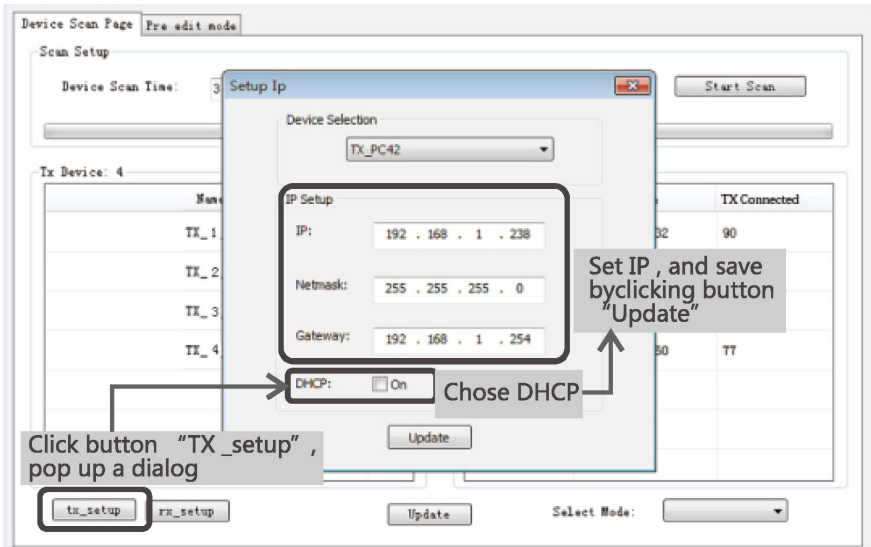


Figure 2

Device scanning and setting

- Device scanning and setting (example shown of TX's setting only, RX's setting is identical)

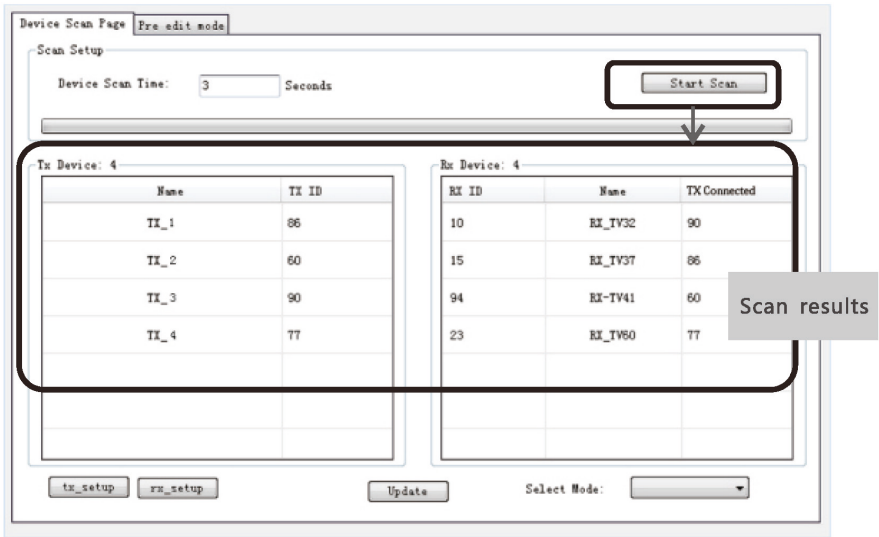


Figure 3

Device Name setting

- Click on a default device name and enter the desired name in the pop-up box.

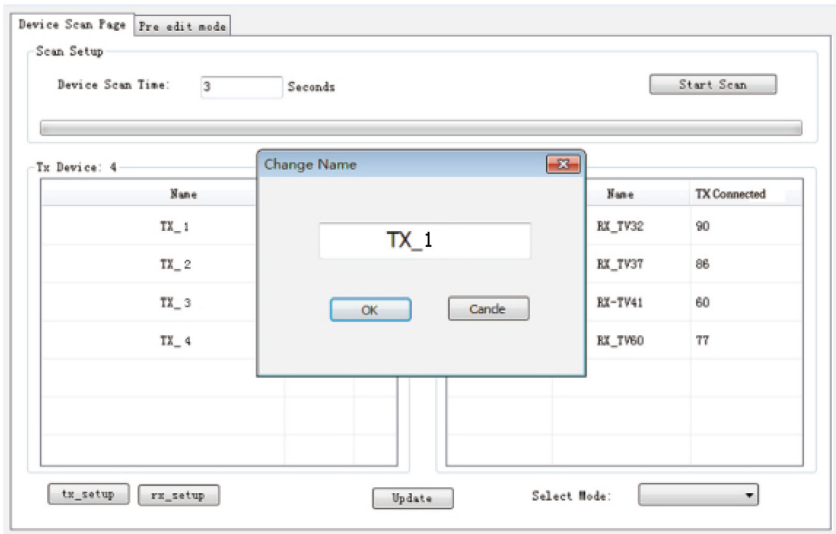


Figure 4

Device Channel setting

- Select the channel for the device using the scroll list.

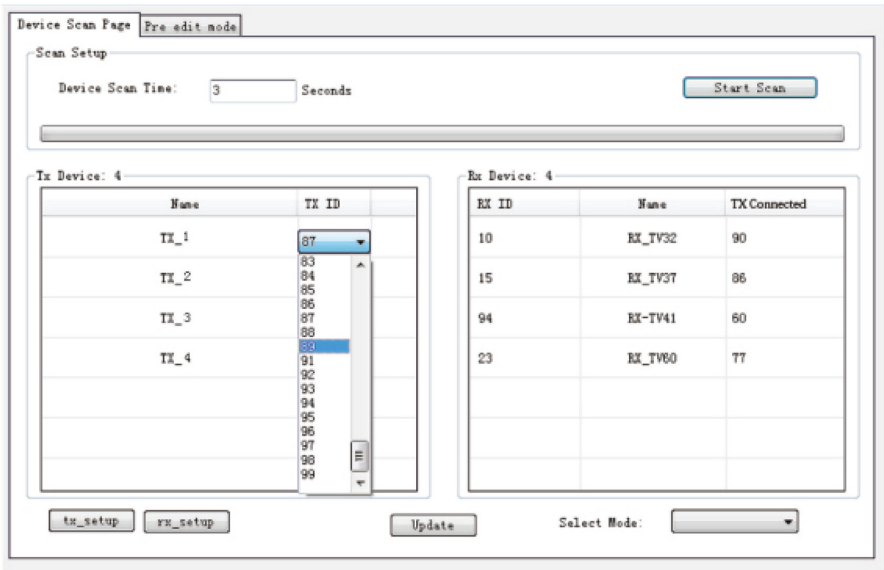


Figure 5

- Click the Update button when complete to store all the settings made.

Mode setting

- Click on the Mode button to change the required mode name.

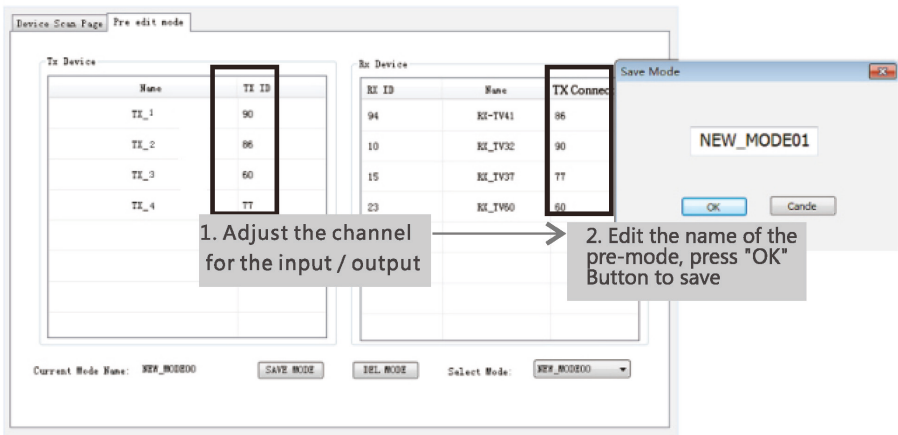


Figure 6

- Click the Update button when complete to store all the settings made under the current Mode name.

Selecting the operation Mode

- Click on the Mode button to change to the required mode and switch to the settings stored previously under that name.

The screenshot shows a web-based interface for device scanning. At the top, there is a tab labeled "Pre edit mode". Below this is the "Scan Setup" section, which includes a "Device Scan Time" input field set to "3" seconds and a "Start Scan" button. A progress bar is located below the scan time. The interface is divided into two main sections: "Tx Device: 0" and "Rx Device: 0".

Tx Device: 0

Name	TX ID
TX_1	90
TX_2	86
TX_3	60
TX_4	77

Rx Device: 0

RX ID	Name	TX Connected
94	KX-TV41	60
10	KX_TV32	90
15	KX_TV37	77
23	KX_TV60	60

At the bottom of the interface, there are several controls: "tx_setup" and "rx_setup" buttons, an "Update" button, and a "Select Mode:" dropdown menu. The dropdown menu is currently open, showing two options: "NEW_MODE00" and "REA_MODE00".

SPECIFICATIONS

Voltage/Current	DC 5V 2A
Power consumption	TX: <6W RX: <5W
HDMI compliance	HDMI 1.3
HDCP compliance	HDCP 1.4
HDMI input resolution	480i@60Hz, 480p@60Hz, 576i@50Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz, 4Kx2K@24/25/30Hz
HDMI output resolution	1080p@60Hz
Audio formats	L/R Stereo Audio
Max transfer rate	28Mbps
Input/output TMDS signal	0.7~1.2Vp-p
Input/output DDC signal	5Vp-p (TTL)
Transmission length	CAT5 80m / CAT5E 100m /CAT6 120m
IR remote control	Supports IR passback with 20-60KHz frequency
Transfer method	Over CAT6
Connector	RJ45
Working temperature	0~60°C
Storage temperature	-20~ 70°C
Humidity	0~95%RH (no condensation)
Dimension (RX & TX)	164(W) x 107.6(D) x 23.6(H)mm
Material	Alloy
Weight	TX: 320g RX:310g

CLEANING & MAINTENANCE

- Clean the outside casing with a soft cloth lightly moistened with mild soap and water. Never use any abrasive or solvents.

CPC Farnell declares that the radio equipment for wireless transmitter/receivers is in compliance with Radio Equipment Directive 2014/53/EU



INFORMATION ON WASTE DISPOSAL FOR CONSUMERS OF ELECTRICAL & ELECTRONIC EQUIPMENT.

When this product has reached the end of its life it must be treated as Waste Electrical & Electronic Equipment (WEEE). Any WEEE marked products must not be mixed with general household waste, but kept separate for the treatment, recovery and recycling of the materials used. Contact your local authority for details of recycling schemes in your area.

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