

## • Important Safety Instructions

1. Please read the user manual carefully before use this product, and keep these instructions.
2. Do not mix up transmitter and receiver before installation.
3. Channel of the transmitter(TX) must be different, otherwise, the system would be breakdown(including transmitter, receiver, IGMP switch etc.).
4. It is advised to set channel of transmitter before access to switch.
5. Follow all instructions.
6. This extender must be installed and operated within the limits of specified operating temperature and humidity.
7. Do not place objects on top of the unit.
8. Do not position the matrix extender near any heating source such as heater, radiator, or direct exposure to sun.
9. Prevent entering of water and moisture into the unit. If necessary, use dehumidifier to reduce humidity.
10. This product must be used with the IGMP switch.
11. Use DC5V/2A power supply only. Make sure the specification matched if using 3rd party DC adapters.

## • Product Introduction

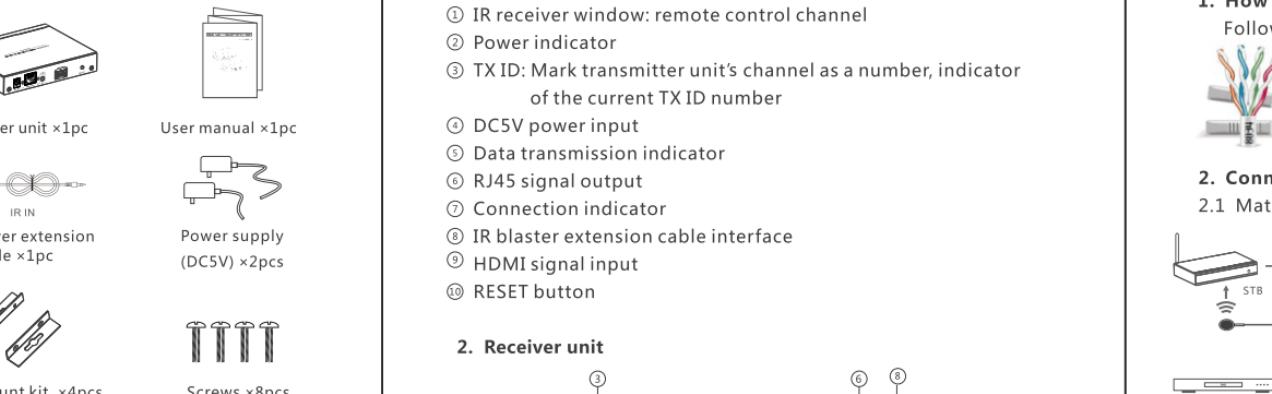
This HDbiT HDMI video matrix over IP includes a transmitter unit(TX) and a receiver unit(RX). It allows for the distribution and switching of high definition video/audio signal by this product and off-the-shelf IGMP switch. It applied advanced HDbiT technology, the resolution supported is up to 4Kx2K@30Hz ultra HD. It can also used in a point-to-point connection, the distance is up to 120 meters. It is widely applied in digital signage advertisement, control room, command centers, entertainment and exhibition center, safety monitoring system, etc.

## • Product Features

1. Apply advanced HDbiT over IP technology.

2. Resolution supported is up to 4Kx2K@30Hz ultra HD.
3. Transmission distance is up to 120 meters via CAT6.
4. Support IR pass back function to control source device from RX location.
5. Plug and play.
6. Support scalable and flexible input-output matrix configuration, allows 100 inputs to infinite output.
7. Support computer control software to select and switch source device input.
8. Support to select and switch source device input from receiver via remote control and hard button.
9. Support APP control, user can scan, preview, build up their configuration by using a phone/tablet easily.

## • Package Content



## • Installation Requirements

1. HDMI source devices: with HDMI OUTPUT interface, DVD, PS3,

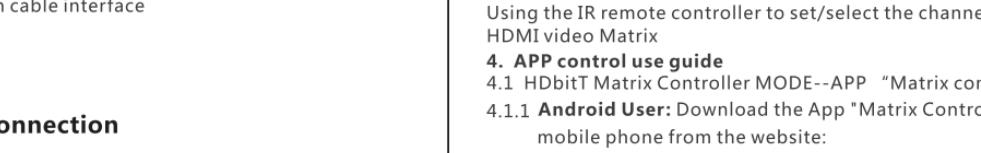
STB, PC etc.

2. Display devices : With HDMI INPUT port, SDTV, HDTV, projector etc.
3. Network cables :

UTP/STP CAT5/5E/6 network cables, which following the standard of IEEE-568B.  
Transmission length: CAT5 80m/CAT5E 100m/CAT6 120m.

## • Panel Description

### 1. Transmitter unit



① IR receiver window: remote control channel  
② Power indicator  
③ TX ID: Mark transmitter unit's channel as a number, indicator of the current TX ID number

④ DC5V power input  
⑤ Data transmission indicator  
⑥ RJ45 signal input  
⑦ Connection indicator  
⑧ IR blaster extension cable interface

⑨ HDMI signal input  
⑩ RESET button

⑪ TX/RX button

⑫ IR OUT  
⑬ IR IN

⑭ Power supply (DC5V)

⑮ IR blaster extension cable

⑯ IR receiver extension cable

⑰ Remote control

⑱ Wall-mount kit

⑲ Screws

### 2. Receiver unit



⑳ IR OUT  
㉑ IR IN

㉒ Power supply (DC5V)

㉓ IR blaster extension cable

㉔ IR receiver extension cable

㉕ Remote control

㉖ Wall-mount kit

㉗ Screws

- ① RX ID: Mark receiver unit as a number, indicator of the current RX ID number

- ② IR receiver window: remote control channel
- ③ Power indicator

④ TX CONNECTED: Indicate the input channel as a number, and when the channel of receiver as same as the channel of transmitter, transmission connected

⑤ DC5V power input

⑥ Data transmission indicator

⑦ RJ45 signal input

⑧ Connection indicator

⑨ IR receiver extension cable interface

⑩ HDMI signal output

⑪ RESET button

⑫ IR OUT  
⑬ IR IN

⑭ Power supply (DC5V)

⑮ IR blaster extension cable

⑯ IR receiver extension cable

⑰ Remote control

⑱ Wall-mount kit

⑲ Screws

## 2.2 Point to point configuration

- ① HDMI IN  
② Transmitter  
③ CAT5/SE/6  
④ HDMI OUT  
⑤ TV

DVD

STB

PC

etc.

## 4.1.3 APP function

### 4.1.3.1 Preview

Click "play" button to preview the content of the source device.

DVD

STB

PC

etc.

### 4.1.3.2 Edit

Click the frame under the TX/RX button to edit device name.

1. white and orange; 2. orange; 3. white and green;

4. blue; 5. white and blue; 6. green;

7. white and brown; 8. brown.

Note: Please do not use more than one mobile phone/tablet to control the system simultaneously.

### 4.1.3.3 Long press

Press to set IGMP group and display the setted value.

Product switches automatically to the corresponding IGMP group 5 seconds after the press.

IOS User: Download the APP "Matrix Controller" from APP Store.

4.2 Router MODE--APP "Matrix Control Lite"

Follow the standard of IEEE-568B:

① IR receiver window: remote control channel

② Power indicator

③ TX ID: Mark transmitter unit's channel as a number, indicator of the current TX ID number

④ DC5V power input

⑤ Data transmission indicator

⑥ RJ45 signal output

⑦ Connection indicator

⑧ IR blaster extension cable interface

⑨ HDMI signal input

⑩ RESET button

⑪ TX/RX button

⑫ IR OUT  
⑬ IR IN

⑭ Power supply (DC5V)

⑮ IR blaster extension cable

⑯ IR receiver extension cable

⑰ Remote control

⑱ Wall-mount kit

⑲ Screws

### 4.1.4 Push and slide

Drag push button TX and slide to RX, to set up new connection.

There is a "TX ID" on TX unit, and there are both "RX ID"

and "TX connected" on RX unit.

Each of them consists of two Nixie tubes and two buttons (beside the Nixie tube), the left button controls the value of the left Nixie tube, and the right one to control the value of the right Nixie tube. The value of each Nixie tube is from 0 to 9, each button is pressed at a time, the number is added one value. For example, the existing value of TX ID is "00", and press the left button once, also press the right button once, then the value of TX ID is changed to "11". When the value of "TX connected" on the RX unit is as same as the value of "TX ID" on the TX unit, a connection built between the TX and RX units.

### 4.4 APP control use guide

#### 4.4.1 Android User

Download the App "Matrix Controller" by your

mobile phone from the website:

<http://www.hdbitt.com/download-matrix/>.

#### 4.4.2 IOS User

Download the APP "Matrix Control Lite" from APP Store.

4.4.3 Short press

Press to set IGMP group and display the setted value.

Product switches automatically to the corresponding IGMP group 5 seconds after the press.

Long press: Press and keep 3 seconds to reset the product.

### 4.1.2 First

Firstly, connect the video matrix controller to the IGMP switch.

Then, connect mobile phone/tablet and the video matrix controller via hotspot"MATRIX" with each other(as figure 1, the wifi password is 12345678). At this time, open the downloaded APP"matrix control", "Matrix Control Lite" will enter to the interface as figure 3, TX ID, RX ID, TX connected number can be re-set by this APP, also can edit device name for marking.

### 6. Computer software control use guide

#### 6.1 Access to network

Connect your PC/computer with the off-the-shelf IGMP

Ethernet switch via a single network cable

#### 6.2 PC/computer setting

Change the PC/computer's IP to 192.168.1.xxx

(xxx can be 0 to 255), which as same as the IP segment of TX

unit and RX unit.

#### 6.3 Web operation

Open application program "HDbiT E-Matrix Control center", it

displays the interface as Figure 1 (Download from the website:

<http://www.hdbitt.com/download-matrix/>).

Figure 1

Figure 2

Figure 3

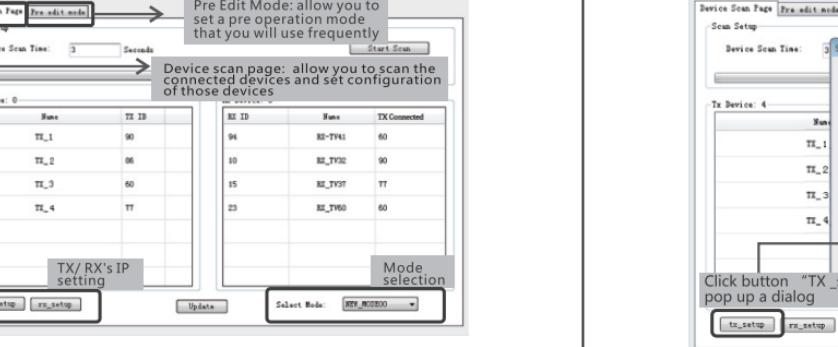


Figure 1

**IP setting**

TX and RX 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 no 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 (here make an example of TX's IP setting only, RX's setting is the same as TX's )

#### TX's IP setting

\* Click button "TX setup", pop up a dialog

Set IP, and save by clicking button "Update"

Choose DHCP

Start Scan

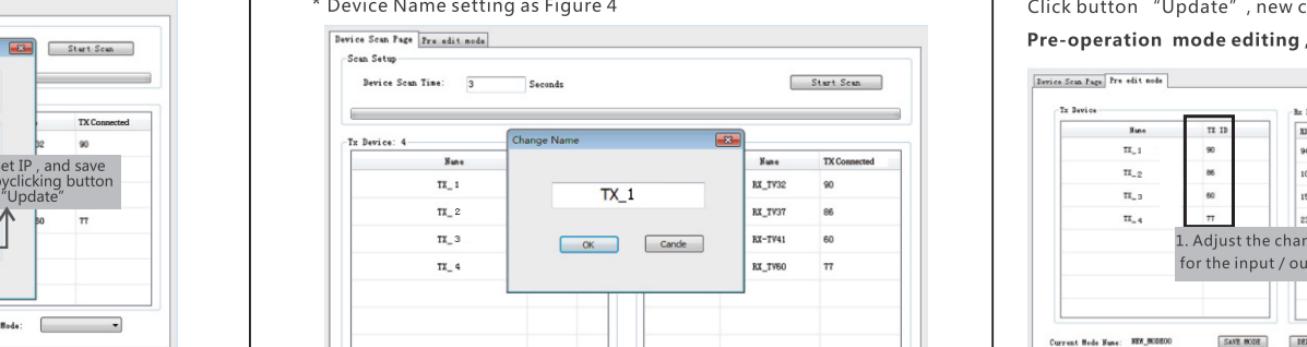


Figure 2

**Device scanning and setting** (here make an example of TX's setting only, RX's setting is same as TX's)

\* Click button "Start Scan", the scanned result shows as Figure 3

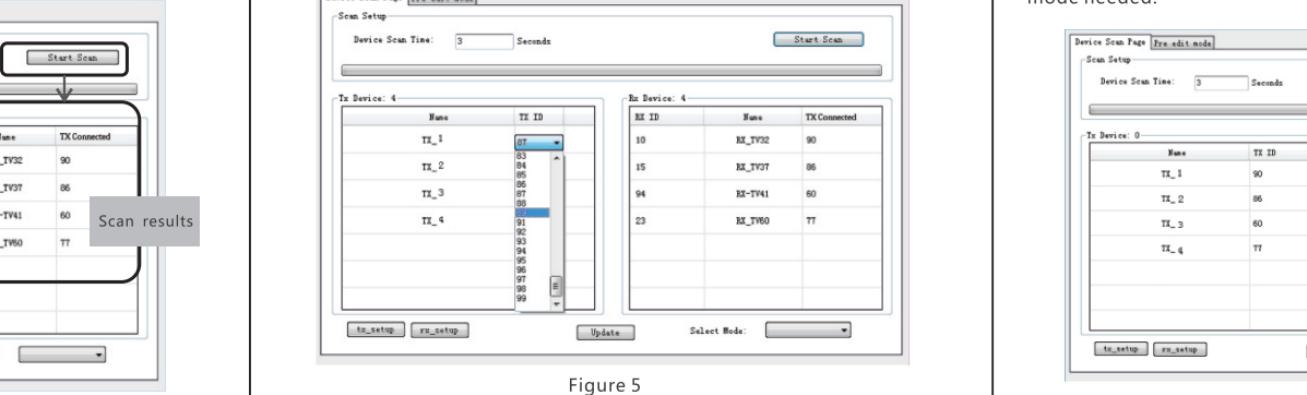


Figure 3

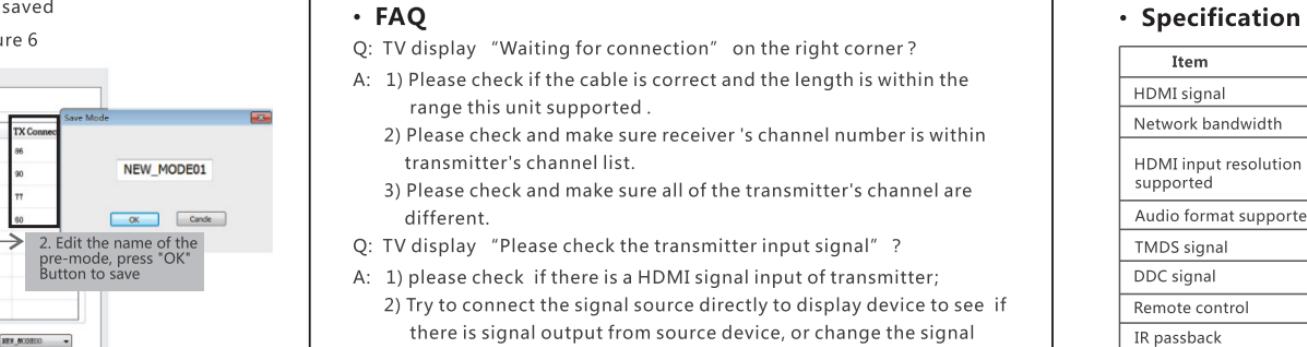


Figure 4

\* Device channel (TX ID) setting as Figure 5

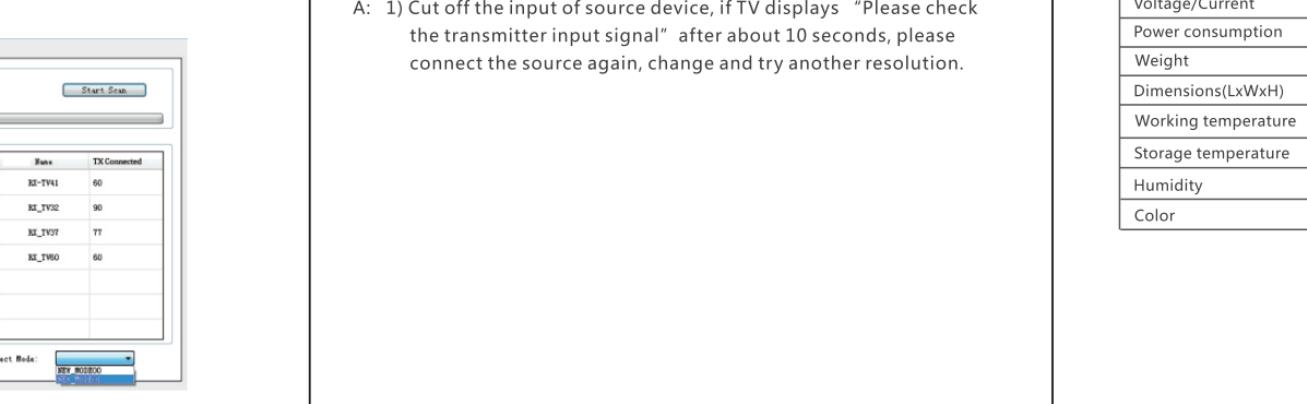


Figure 5

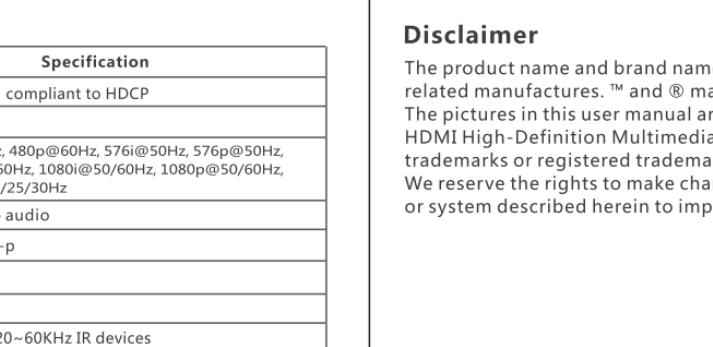


Figure 6

**Operation mode selection setting**

Follow up Figure 7, Click button "Select Mode", to choose the mode needed.

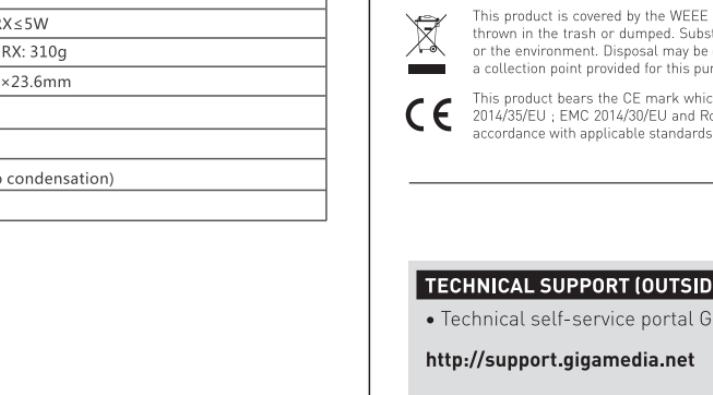


Figure 7



**Permet de scanner et configurer les périphériques**

**Pour enregistrer une préconfiguration**

**Configurer IP Rx/Tx**

**Sélection de mode**

**Configuration IP :**

Les Rx et Tx ont leur propre adresse IP :  
**Tx:** 192.168.1.238  
**Rx:** 192.168.1.239

En général, il n'est pas nécessaire de les modifier.  
 Suivez les procédures suivantes afin de les modifier.

**1. Cliquez sur «Tx setup»**

**Choisissez DHCP**

**Configurer et sauvegarder en cliquant sur "update"**

**Résultat du scan**

**TX\_1**

**Indiquez le canal d'émission**

**Indiquez quel canal afficher**

**Directive DEEE**

Ce produit entre dans le cadre de la directive DEEE II [Directive 2012/19/UE]. Il ne doit pas être jeté à la poubelle ni mis en décharge. Les substances contenues dans le produit peuvent être dangereuses pour la santé humaine ou l'environnement. L'élimination peut s'effectuer en renvoyant le produit à votre revendeur ou en le déposant dans un lieu de collecte prévu à cet effet.

**CE**

Ce produit porte le marquage CE qui atteste de sa conformité aux directives LVD 2014/35/UE ; CEM 2014/30/UE et RoHS 2011/65/UE.

La conformité a été évaluée selon les normes applicables en vigueur.

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**EQUIPEMENTS**  
**RESEAUX**

# MANUEL UTILISATEUR

**Récepteur Matrice HDMI 4K 30 Hz**  
GGM HDOIP4K3MR

**ASSISTANCE TECHNIQUE**  
Assistance technique GIGAMEDIA sur internet :  
<http://support.gigamedia.net>

Assistance technique France GIGAMEDIA par téléphone  
**0899 250 013**  
(0,50 € TTC / min depuis un poste fixe)  
Du lundi au vendredi entre 09h-12h et 14h-17h

**www.gigamedia.net**

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Configurer et sauvegarder en cliquant sur "update"

Résultat du scan

TX\_1  
TX\_2  
TX\_3  
TX\_4  
RX\_1  
RX\_2  
RX\_3  
RX\_4

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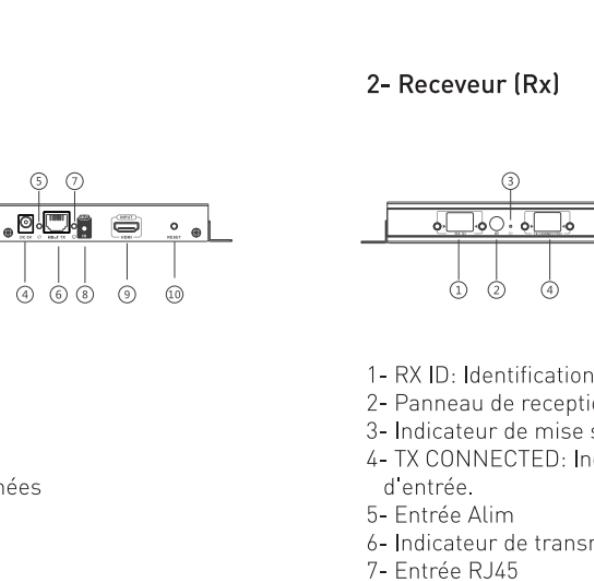
## Instructions de sécurité:

- Merci de lire ce manuel avant utilisation des produits
- Attention de ne pas melanger les Rx et les Tx avant l'installation
- Les canaux des Tx doivent étre différents
- Il est conseillé de configurer les canaux avant le raccordement au switch
- Installez le matériel dans un lieu conforme aux préconisations
- Ne rien poser sur les produits
- Ne pas positionner les produits à proximité d'une source de chaleur.
- Ne pas utiliser dans un environnement humide
- Doit être raccordé à un switch gérant l'IGMP
- Utilisez une alimentation 5V 2A. assurez vous des spécifications si vous utilisez un adaptateur tierce.

## Informations du produit

- Matrice HD Bit T Rx ou Tx
- A raccorder sur switch IGMP ou en point à point
- Résolution 4K 30 Hz max
- Distance jusqu'à 120M en point à point.
- Supporte l'émission / réception des IR
- Plug & Play
- Jusqu'à 100 Tx et Rx illimité
- Contrôlé par un software

## Contenu du carton:



## Description des panneaux:

### 1- Emetteur (Tx)

