



KA263TX HDMI OVER IP MATRIX 120M WITH IR 4K60HZ (IP COLOUR) TRANSMITTER



Introduction

This 4K@60Hz HDMI over IP matrix kit, including a transmitter and a receiver, realizing switching, extending and distributing 4K@60Hz audio and video signals via the IGMP switch. Built on ipcolor STREAM™ technology to deliver high-definition and low-latency transmission. The transmitter can extend 100 signal sources and switch to 253 receiving terminals. The HDMI signal can be extended up to 120 meters over Category 6 or higher-level networking cables while supporting one-to-one connection and many-to-many connection. Equipped with HDMI loop out, bi-directional IR passback, RS-232 command control, I/O. Widely used in audiovisual conference, transportation control center, radio and television, education and training and other fields.

Features

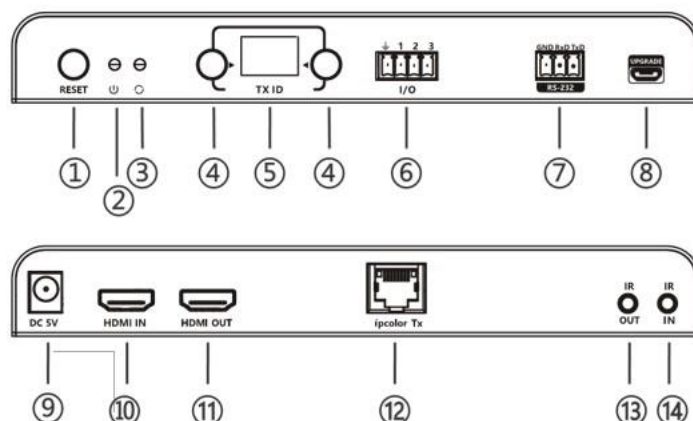
1. Built on ipcolor STREAM™ technology to deliver high-definition and low-latency transmission.
2. Supports up to 3840 x 2160@60Hz resolution, backwards compatible.
3. Compatible with Cat5/5e/6 or higher-level networking cables, transmission distance of Cat6 cable is 120 meters.
4. Supports one-to-one or many-to-many connections through the gigabit switch.
5. Supports RS-232 passthrough and control.
6. The transmitter supports HDMI loop out.
7. Supports bi-directional IR pass-back(20 ~ 60KHz).
8. Supports I/O interface control.
9. Supports POE (Power over Ethernet).
10. Creating multi-screen splicing with up to 5x5(also include 1x1/1x2/1x3/1x4/1x5/2x1/2x2/2x3/2x4/2x5/3x1/3x2/3x3/3x4/3x5/4x1/4x2/4x3/4x4/4x5/5x1/5x2/5x3/5x4/5x5) video wall through switch and controlled by APP.
11. Supports 100 signal source inputs and 253 signal outputs, providing flexible many-to-many matrix configuration.
12. Firmware upgrading via Micro USB port.
13. Lightning protection, surge protection, ESD protection.
14. Supports stable 24/7 operation.

Technical Parameter

| Item | Transmitter | Receiver |
|-----------------------|--|---|
| Video | | |
| Input interface | 1x HDMI | 1x RJ45 |
| Output interface | 1xHDMI 1xRJ45 | 1x HDMI |
| HDMI Length | ≤5m | ≤5m |
| Maximum transfer rate | 18Gbps | |
| Compatibility | HDMI 2.0 | |
| | HDCP 1.4/HDCP 2.2 | |
| Resolution | 3840x2160@24/30/50/60Hz, 1080P@50/60Hz, 720@50/60Hz, 1920x1200@60Hz, 2560x1440@60Hz | |
| Connection types | One-to-one connection, Many-to-many connection, Switch cascading | |
| Transmission distance | CAT5 80m/ CAT5E 100m/ CAT6 100m | |
| Transmission latency | 70~180ms | |
| Audio signal | | |
| Input interface | 1x HDMI | 1x RJ45 |
| Output interface | 1x HDMI 1x RJ45 | 1x HDMI |
| HDMI output | LPCM 2.0 | |
| Command Signal | | |
| Input Interface | 1x 3.5mm IR input 1x 3.5mm IR output | 1x 3.5mm IR input 1x 3.5mm IR output |
| IR receiving range | ≤5m | |
| IR frequency | 20kHz~60kHz | |
| RS232 (GND/RXD/TXD) | Default baud rate: 115200 Supported: 2400, 8400, 9600, 19200, 38400, 57600, 115200 | |
| Power | | |
| Power supply | DC 5V/2A | DC 5V/2A |
| Power Consumption | TX ≤ 5.5W | RX ≤ 3.5W |
| Operating Environment | | |
| Working Temperature | -20°C ~ 60°C | |
| Storage Temperature | -30°C ~ 70°C | |
| Humidity | 0 ~ 90%RH (no condensation) | |
| Physical Properties | | |
| Housing | Iron | |
| Weight | 472g | 458g |
| Color | Black | |
| Dimensions | 191(L) * 96(W) * 25(H) mm | |
| Protection | ESD protection 1a Contact discharge level 2 (±4KV) 1b Air discharge level 3 (±8KV) Implementation of the standard: IEC61000-4-2 | |
| | Lightning protection, Surge protection | |

Panel Description

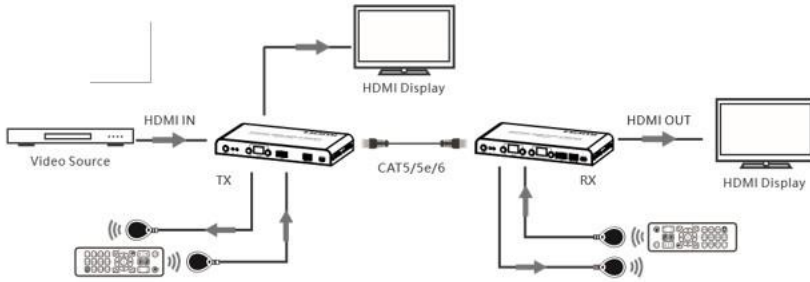
Transmitter



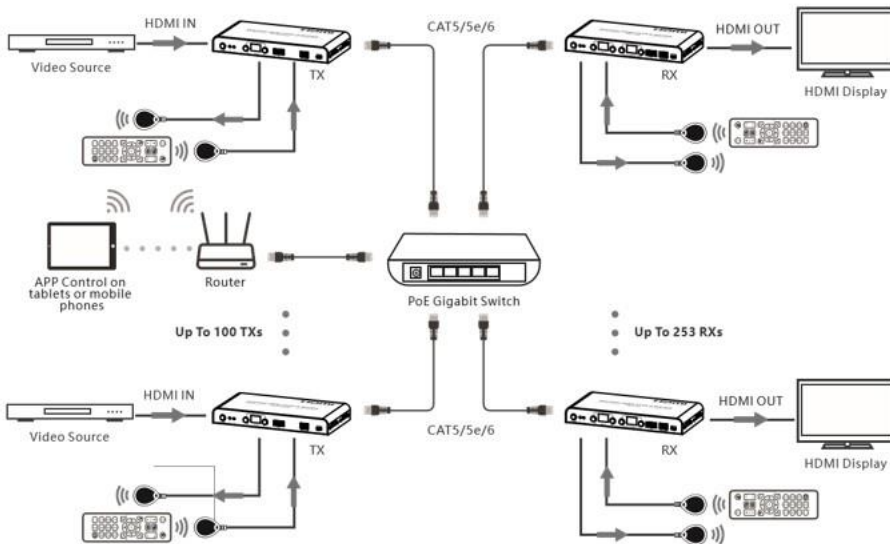
| | | |
|-----|-------------------------------|---|
| 1. | Reset | 1) Press to restart the device 2) Press and hold for 5 seconds to restore factory settings |
| 2. | Power indicator (blue) | The indicator will turn on when the power is turned on |
| 3. | Status indicator (orange) | 1) Light off: The transmitter and the receiver have not established a connection 2) Flash: The transmitter and the receiver are connected but no video data transmission 3) Steady on: The video data is transmitting |
| 4. | Transmitter ID setting button | Set up the ID of the transmitter |
| 5. | Transmitter ID indicator | Indicate the ID of the transmitter |
| 6. | I/O interface | Use the terminal block to connect the external device, and control the input/output signal via the control APP |
| 7. | RS-232 (GND/RXD/TXD) | 1) RS-232 passthrough commands for TX/RX 2) RS-232 control commands for APP |
| 8. | Micro USB port | For firmware upgrading |
| 9. | Power | Connect with DC5V/2A power adapter |
| 10. | HDMI input | Connect with HDMI source device |
| 11. | HDMI output | Connect with HDMI display device |
| 12. | Ipcolor TX | Connect with CAT5/5e/6 or higher-level networking cables (POE input) |
| 13. | IR output | Connect with IR blaster extension cable |
| 14. | IR input | Connect with IR receiver extension cable |

Connection Diagrams

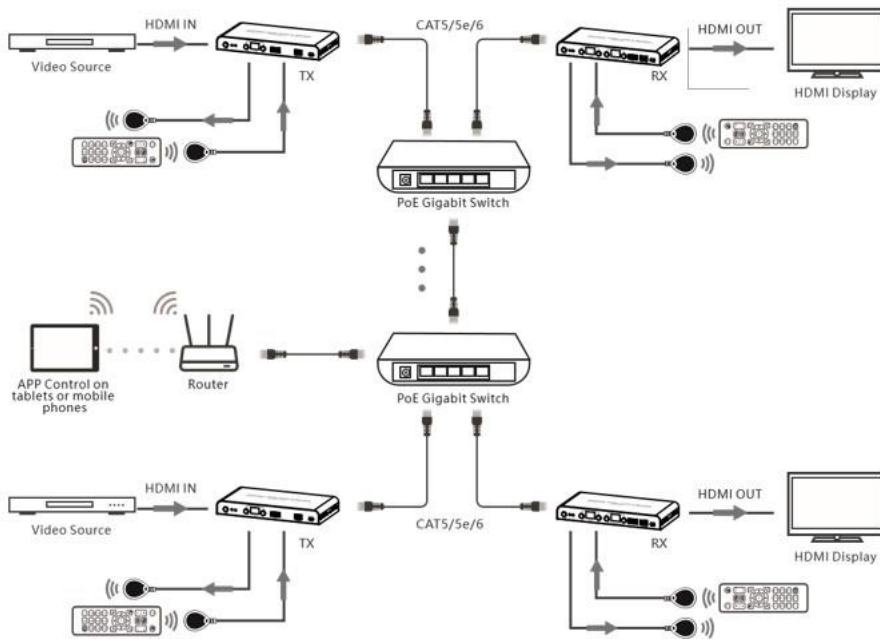
1. One-to-one connection



2. Many-to-many connection (through gigabit switch)



3. Many-to-many switch cascade connection (through gigabit switch)



4. Creating multi-screen splicing with up to 4x4 video wall through switch and controlled by APP

