HDMI PIN DEFINITION



Type A (Receptacle) HDMI

| Pin 1 | TMDS Data2+ | Pin 8 | TMDS Data0 Shield | SCL | |
|-------|-------------------|--------|--------------------------|--------|-----------------|
| Pin 2 | TMDS Data2 Shield | Pin 9 | TMDS Data0- | Pin 16 | SDA |
| Pin 3 | TMDS Data2- | Pin 10 | TMDS Clock+ | Pin 17 | DDC/CEC Ground |
| Pin 4 | TMDS Data1+ | Pin 11 | TMDS Clock Shield | Pin 18 | +5V Power |
| Pin 5 | TMDS Data1 Shield | Pin 12 | TMDS Clock- | Pin 19 | Hot Plug Detect |
| Pin 6 | TMDS Data1– | Pin 13 | CEC | | |
| Pin 7 | TMDS Data0+ | Pin 14 | Reserved(N.C. on device) | | |

NOTICE

- All HDMI over CAT5 transmission distances are measured using Belden 1583A CAT5e 125MHz UTP cable and ASTRODESIGN Video Signal Generator VG-859C & VG-870B.
- 2. Incorrect placement of IR Blaster and Receiver may result in the failure of the IR extenders. Please check carefully before plugging in the IR extender to the respective IR sockets. Warranty will not cover the damage.
- 3. The transmission length is largely affected by the type of Cat-5/5e/6 cables, the type of HDMI sources, and the type of HDMI display. The testing result shows solid UTP cables (usually in the form of 300m [1,000ft] bulk cables) can transmit a lot longer signals than stranded UTP cables (usually in the form of fixed length patch cords). Shielded STP cables are better suited than unshielded UTP cables. A solid UTP Cat-5e cable shows longer transmission range than stranded STP Cat-6 cable. For long extension applications, solid UTP/STP cables are the only viable choice.
- **4.** EIA/TIA-568-B termination (T568B) for Cat-5/5e/6 cables is recommended for better performance.
- To reduce the interference among the unshielded twisted pairs of wires in Cat-5/5e/6 cable, one can use shielded STP cables to improve EMI problems, which is worsen in long transmission.
- 6. Because the quality of the CAT5/6 cables has the major effect on how long the transmission limit can achieve and how good is the received picture quality, the actual transmission range is subject to one's choice of Cat-5/5e/6 cables. For desired resolutions greater than 1080i or 1280x1024, a Cat-6 cable is recommended.
- 7. If your HDMI display has multiple HDMI inputs, it is found that the first HDMI input [HDMI input #1] generally can produce better transmission performance among all HDMI inputs.



| Wiring | Shielding | CAT5 | CAT5e | CAT6 |
|-------------|------------------|--|-------|------|
| Colid | Unshielded (UTP) | *** | **** | **** |
| 50110 | Shielded (STP) | *** | *** | **** |
| Otropdad | Unshielded (UTP) | * | ** | ** |
| Stranueu | Shielded (STP) | * | * | ** |
| Termination | | Please use EIA/TIA-568-B termination (T568B) at any time | | |

HDMI PIN DEFINITION



Pin 7 TMDS Data0+ Pin 14 Reserved(N.C. on device)

NOTICE

- All HDMI over CAT5 transmission distances are measured using Belden 1583A CAT5e 125MHz UTP cable and ASTRODESIGN Video Signal Generator VG-859C & VG-870B.
- 2. Incorrect placement of IR Blaster and Receiver may result in the failure of the IR extenders. Please check carefully before plugging in the IR extender to the respective IR sockets. Warranty will not cover the damage.
- 3. The transmission length is largely affected by the type of Cat-5/5e/6 cables, the type of HDMI sources, and the type of HDMI display. The testing result shows solid UTP cables (usually in the form of 300m [1,000ft] bulk cables) can transmit a lot longer signals than stranded UTP cables (usually in the form of fixed length patch cords). Shielded STP cables are better suited than unshielded UTP cables. A solid UTP Cat-5e cable shows longer transmission range than stranded STP Cat-6e cable. For long extension applications, solid UTP/STP cables are the only viable choice.

HARDWARE INSTALLATION

- Connect a HDMI or DVI source (such as a Blu-ray Disc player) to the transmitting unit K5700-TX.
- Connect a HDMI or DVI display (such as a LCD TV) to the receiving unit K5700-RX.
- 3. Connect IR Blaster/Receiver to both TX and RX units.
- 4. Connect a Cat-5/5e/6 cable between the transmitting and receiving units.
- 5. Make sure this Cat-5/5e/6 cable is tightly connected and not loose.
- **6.** Plug in 5V DC power supply unit to the power jack of the receiving unit K5700-RX and the transmitting unit K5700-TX.

WARRANTY

The SELLER warrants the **K5700 HDMI Extender over Single Cat.X with HDBaseT-Lite, Bi-directional IR and RS-232** free from defects in the material and workmanship for 1 year from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surge. This warranty is offered by the SELLER for its BUYER with direct transaction only. This warranty is void if the warranty seal on the metal housing is broken.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables and power adapters are limited to a 30 day warranty and must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the K5700 features and specifications is subject to change without further notice.



HDMI Extender over Single Cat.X with HDBaseT-Lite, Bi-directional IR and RS-232

<u>User Manual</u>







The K5700 HDMI Extender over Single Cat.X with HDBaseT-Lite, Bi-directional IR and RS-232 has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the K5700 should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.



HARDWARE INSTALLATION

- 1. Connect a HDMI or DVI source (such as a Blu-ray Disc player) to the transmitting unit K5700-TX.
- Connect a HDMI or DVI display (such as a LCD TV) to the receiving unit K5700-RX.
- 3. Connect IR Blaster/Receiver to both TX and RX units.
- **4.** Connect a Cat-5/5e/6 cable between the transmitting and receiving units.
- Make sure this Cat-5/5e/6 cable is tightly connected and not loose.
- 6. Plug in 5V DC power supply unit to the power jack of the receiving unit K5700-RX and the transmitting unit K5700-TX.

WARRANTY

The SELLER warrants the **K5700 HDMI Extender over Single Cat.X with HDBaseT-Lite, Bi-directional IR and RS-232** free from defects in the material and workmanship for 1 year from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surge. This warranty is offered by the SELLER for its BUYER with direct transaction only. This warranty is void if the warranty seal on the metal housing is broken.

Unit that fails under conditions other than those covered will be



HDMI Extender over Single Cat.X with HDBaseT-Lite, Bi-directional IR and RS-232

<u>User Manual</u>





- **4.** EIA/TIA-568-B termination (T568B) for Cat-5/5e/6 cables is recommended for better performance.
- To reduce the interference among the unshielded twisted pairs of wires in Cat-5/5e/6 cable, one can use shielded STP cables to improve EMI problems, which is worsen in long transmission.
- Because the quality of the CAT5/6 cables has the major effect on how long the transmission limit can achieve and how good is the received picture quality, the actual transmission range is subject to one's choice of Cat-5/5e/6 cables. For desired resolutions greater than 1080i or 1280x1024, a Cat-6 cable is recommended.
- If your HDMI display has multiple HDMI inputs, it is found that the first HDMI input [HDMI input #1] generally can produce better transmission performance among all HDMI inputs.



Performance Guide for HDMI over Category Cable Transmission

| Perfo | ormance rating | Type of category cable | | |
|----------|------------------|------------------------|-----------------------|--------------------|
| Wiring | Shielding | CAT5 | CAT5e | CAT6 |
| 0-11-1 | Unshielded (UTP) | *** | **** | **** |
| 50110 | Shielded (STP) | *** | *** | **** |
| Strandad | Unshielded (UTP) | * | ** | ** |
| Stranueu | Shielded (STP) | * | * | ** |
| Т | ermination | Please use EIA/TIA | A-568-B termination (| T568B) at any time |

repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables and power adapters are limited to a 30 day warranty and must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the K5700 features and specifications is subject to change without further notice.



The K5700 HDMI Extender over Single Cat.X with HDBaseT-Lite, Bi-directional IR and RS-232 has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the K5700 should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.



INTRODUCTION

The K5700 HDMI Extender over Single Cat.X with HDBaseT-Lite,

Bi-directional IR and RS-232 boosts up your video/audio transmission distance up to 60m (198ft) in HDTV 1080p with 48-bit color depth. K5700 also supports the most advanced 3D video format complaint with HDMI specification and therefore guarantees the highest 3D video compatibility on the market. With only one cost effective Cat.5/5e/6 cable, users can readily extend HDTV sources from DVD players, Blu-ray Disc player, PS3, PC, and any other kinds of sources compliant with TMDS to distant display monitors including HDMI or DVI enabled TV sets or LCD PC monitors. With the advanced design for the latest HDMI technology, deep color video, DTS-HD or Dolby TrueHD audio, and HDCP supports and compatibility are all further insured. This flexibility makes HDCP compliant DVD players or PS3 transmit utmost high quality video and audio with a greater distance at the minimal cost, when integrating several components apart. In addition, K5700 is also equipped with bi-directional IR pass-through path and RS-232 serial port control. These bonus features allow users to boost IR control distance up to 60m (198 ft) and makes IR control possible through only single Cat.5/5e/6 cable including HDMI signals. In addition, serial port offers the convenient path for interactive application, such as touch panels

The CV-57VR includes two units: transmitting unit K5700-TX and receiving unit K5700-RX. The transmitting unit is used to capture the input HDMI / DVI signals with IR control packets and carry the signals via one cost effective Cat.5/5e/6 cable. The receiving unit is responsible for equalizing the transmitted HDMI signal and reconstructing IR signals. K5700 offers the most convenient solution for digital signage with long distance A/V transmission path, and with 10G transmission width ready, K5700 is ready for your next HDMI generation and applications!

FEATURES

- Support HDMI Deep Color & full 3D & 4K2K@30 (HDBaseT-Lite technology)
- Extend the transmission up to 60m (198ft) from the HDMI source at Full HD 1080p 48-bit and 40m (130ft) at 4K2K@30
- HDCP & EDID Bypass
- **CEC** support
- Auto equalization
- Pure unaltered uncompressed 7.1ch digital HDMI over Cat.5/5e/6 cable transmission
- DTS-HD Master Audio and Dolby TrueHD high bit rate audio support Support full frequency IR signal from 20KHz to 60KHz
- Bi-directional IR path-through
- Full Duplex RS-232 control up to 115,200 bps through connector Wall mounting housing design for easy and robust installation



The length depends on the characteristics and quality of the cables. Higher resolutions and longer transmission distances require low skew cables (<25ns/100m) for best performance. Unshielded CAT6 with metal RJ45 connectors is recommended

PACKAGE CONTENTS

- 1x K5700 [TX & RX]
- 2x 5V DC power supply
- 1x User Manual

1x IR blaster 1x IR receiver

INTRODUCTION

The K5700 HDMI Extender over Single Cat.X with HDBaseT-Lite, Bi-directional IR and RS-232 boosts up your video/audio transmission distance up to 60m (198ft) in HDTV 1080p with 48-bit color depth. K5700 also supports the most advanced 3D video format complaint with HDMI specification and therefore guarantees the highest 3D video compatibility on the market. With only one cost effective Cat.5/5e/6 cable, users can readily extend HDTV sources from DVD players, Blu-ray Disc player, PS3, PC, and any other kinds of sources compliant with TMDS to distant display monitors including HDMI or DVI enabled TV sets or LCD PC monitors. With the advanced design for the latest HDMI technology, deep color video, DTS-HD or Dolby TrueHD audio, and HDCP supports and compatibility are all further insured. This flexibility makes HDCP compliant DVD players or PS3 transmit utmost high quality video and audio with a greater distance at the minimal cost, when integrating several components apart. In addition, K5700 is also equipped with bi-directional IR pass-through path and RS-232 serial port control. These bonus features allow users to boost IR control distance up to 60m (198 ft) and makes IR control possible through only single Cat.5/5e/6 cable including HDMI signals. In addition, serial port offers the convenient path for interactive application, such as touch panels

The CV-57VR includes two units: transmitting unit K5700-TX and receiving unit K5700-RX. The transmitting unit is used to capture the input HDMI / DVI signals with IR control packets and carry the signals via one cost effective Cat.5/5e/6 cable. The receiving unit is responsible for equalizing the transmitted HDMI signal and reconstructing IR signals. K5700 offers the most convenient solution for digital signage with long distance A/V transmission path, and with 10G transmission width ready, K5700 is ready for your next HDMI generation and

SPECIFICATIONS

| Model N | lame | K57 | 700 | |
|--------------------------|-----------|---|--|--|
| Technical | | K5700[Tx] | K5700[Rx] | |
| Role of usag | е | Transmitter [TX] | Receiver [RX] | |
| HDMI compli | ance | HDMI Deep Color, full 3D & 4K2K@30 | | |
| HDCP comp | liance | Y | es | |
| Video bandw | ridth | Single-link 340 | MHz [10.2Gbps] | |
| Video suppo | rt | 480i / 480p / 720p | o / 1080i / 1080p60 | |
| HDMI over U | TP | 1080p@60 60m (198ft) [CAT5e] | | |
| Audio suppor | rt | Surround sound [up to 7. | 1ch) or stereo digital audio | |
| Equalization | | Ai | uto | |
| Input TMDS | signal | 1.2 Volts [p | eak-to-peak] | |
| Input DDC si | gnal | 5 Volts [peak | -to-peak, TTL] | |
| ESD protecti | on | [1] Human body model — ±19kV [air-gap [2] Core chipset — ±8kV | o discharge] & ±12kV [contact discharge] | |
| PCB stack-u | р | 4-layer board [impedance contro | l — differential 100Ω; single 50Ω] | |
| IR pass-thru | | Bi-dire | ectional | |
| RS-232 supp | ort | Yes | | |
| Input | | 1x HDMI 1x 3.5mm | 1x RJ-45[HDBaseT] 1x 3.5mm | |
| Output | | 1x RJ-45[HDBaseT] 1x 3.5mm | 1x HDMI 1x 3.5mm | |
| In/ Out | | 1x RS-232 | 1x RS-232 | |
| HDMI source | control | Controllable via IR pass-through from RX to TX with IR extenders | | |
| HDMI connector | | Type A [19-pin female] | | |
| RJ-45 conne | ctor | WE/SS 8P8C(Reverse Mode) | | |
| Rotary contro | ol switch | None | | |
| 3.5mm connector | | IR receiver / IR blaster | IR receiver / IR blaster | |
| Mechanical | | K5700[Tx] | K5700[Rx] | |
| Housing | | Metal enclosure | | |
| Dimonsions | Model | 73 x 89 x 26mm [2.9" x 3.5" x 1"] | | |
| L x W x H | Package | 175 x 125 x 216mm [6.8" x 4.9" x 8.5"] | | |
| | Carton | 647 x 366 x 237mm [2'1" x 1'2" x 9.3"] | | |
| Neight | Model | 200g [7oz] | 196g [6.9oz] | |
| weight | Package | 900g [2 lbs] | | |
| Fixedness | | Wall-mounting case with screws | | |
| Power supply | y | 5V 2 | A DC | |
| Power consu | Imption | 3 Watt [max] | 7 Watt [max] | |
| Operation temperature | | 0~40°C [32~104°F] | | |
| Storage temp | perature | -20~60°C [-4~140°F] | | |
| Relative hum | idity | 20~90% RH [no condensation] | | |

PANEL DESCRIPTIONS

Transmitting unit **K5700-TX**[RX]

[Receiving unit]



with a DSUB-9 male-male cable here Dip Switch: Setup the RS-232 mode for serial communication channe LED: TX/RX link indicator *RJ45:* Plug in a Cat-5/5e/6 cable that needs to be linked to the TX or RX.

RS-232: Connect to host/device serial port

LED: Power indicator HDMI IN[OUT]: Connects to a HDMI source[Display] with a HDMI male-male cable IR Receiver: Infrared 3.5mm socket for plugging in the extension cable of IR receiver

IR Blaster: Infrared 3.5mm socket for plugging in the extension cable of IR blaste Latch-locking power jack: Connect to 5V DC power supply

| TX & RX | | Description |
|---------|-----------------------|---|
| DIN1#4 | ON [♣](DTE) | TxD: The 2^{nd} pin of RS-232, which is in charge of sending data RxD: The 3^{rd} pin of RS-232, which is in charge of receiving data |
| PIN#1 | OFF [†](DCE) | TxD: The 3^{rd} pin of RS-232, which is in charge of sending data RxD: The 2^{nd} pin of RS-232, which is in charge of receiving data |
| ON [4] | | Firmware Update |
| PIN#2 | OFF [1] | Normal |

SPECIEICATIONS

| JILCH | | 5115 | | | |
|-------------------------|-----------|---|-------------------------------|--|--|
| Model Name | | К5700 | | | |
| Technical | | K5700[Tx] | K5700[Rx] | | |
| Role of usag | е | Transmitter [TX] | Receiver [RX] | | |
| HDMI compl | iance | HDMI Deep Color, | full 3D & 4K2K@30 | | |
| HDCP comp | liance | Yes | | | |
| Video bandw | /idth | Single-link 340MHz [10.2Gbps] | | | |
| Video suppo | rt | 480i / 480p / 720p | o / 1080i / 1080p60 | | |
| HDMI over U | JTP | 1080p@60 60m | n (198ft) [CAT5e] | | |
| Audio suppo | rt | Surround sound [up to 7. | 1ch) or stereo digital audio | | |
| Equalization | | A | uto | | |
| Input TMDS | signal | 1.2 Volts [p | eak-to-peak] | | |
| Input DDC si | ignal | 5 Volts [peak | -to-peak, TTL] | | |
| ESD protection | | [1] Human body model — ±19kV [air-gap discharge] & ±12kV [contact discharge] [2] Core chipset — ±8kV | | | |
| PCB stack-up | | 4-layer board [impedance control — differential 100Ω ; single 50Ω] | | | |
| IR pass-thru | | Bi-directional | | | |
| RS-232 support | | Yes | | | |
| Input | | 1x HDMI 1x 3.5mm | 1x RJ-45[HDBaseT] 1x 3.5mm | | |
| Output | | 1x RJ-45[HDBaseT] | 1x HDMI | | |
| - uput | | 1x 3.5mm | 1x 3.5mm | | |
| In/ Out | | 1x RS-232 1x RS-232 | | | |
| HDMI source | e control | Controllable via IR pass-through from RX to TX with IR extenders | | | |
| HDMI conne | ctor | Type A [19-pin female] | | | |
| RJ-45 conne | ector | WE/SS 8P8C(Reverse Mode) | | | |
| Rotary control switch | | No | one | | |
| 3.5mm connector | | IR receiver / IR blaster | IR receiver / IR blaster | | |
| Mechanical | | K5700 [Tx] | K5700 [Rx] | | |
| Housing | | Metal enclosure | | | |
| Dimensions | Model | 73 x 89 x 26mm [2.9" x 3.5" x 1"] | | | |
| $[L \times W \times H]$ | Package | 175 x 125 x 216mm [6.8" x 4.9" x 8.5"] | | | |
| | Carton | 647 x 366 x 237m | m [2'1" x 1'2" x 9.3"] | | |
| Weight | Model | 200g [7oz] | 196g [6.9oz] | | |
| | Package | 900g | [2 lbs] | | |
| Fixedness | | Wall-mounting case with screws | | | |
| Device events | | EV AA DO | | | |

CONNECTION DIAGRAM



IR PASS-THROUGH



IR Sockets

IR BLASTER: plug in the IR blaster to emit all IR command signals received from the IR receiver from the other end to control the devices corresponding to the IR signals

IR RECEIVER: plug in the IR receiver to receive all IR command signals from the IR remote controls of the corresponding devices



1. IR Signal

2. Grounding

Incorrect placement of IR Blaster and Receiver may result in the failure of the IR extenders. Please check carefully before plugging in the IR extender to the respective IR sockets. Warranty will not cover the damage.

Definition of IR Earphone Jack

1. IR Signal[20-60 kHz] 2. Grounding 3. Power 23 **IR Receiver**



IR Blaster

You can buy any IR extension cables in the market that are compatible to the definition of the IR sockets for the matrix than 2m (6-ft) may not work.

CONNECTION DIAGRAM

IR (outgoing) 🔶 HDMI RS-232 CAT5/5e/6 IR (incoming) Blu-ray Player IR-T Flat Panel Display RS232 Controllable Devices 0 ۲ . 💿 💿 K5700)TX K5700 RX Up to 60m / 198 f

IR PASS-THROUGH

IR Extenders



applications!

FEATURES

- Support HDMI Deep Color & full 3D & 4K2K@30 (HDBaseT-Lite technology)
- Extend the transmission up to 60m (198ft) from the HDMI source at Full HD 1080p 48-bit and 40m (130ft) at 4K2K@30
- HDCP & EDID Bypass
- CEC support
- Auto equalization
- Pure unaltered uncompressed 7.1ch digital HDMI over Cat.5/5e/6 ٠ cable transmission
- DTS-HD Master Audio and Dolby TrueHD high bit rate audio support
- Support full frequency IR signal from 20KHz to 60KHz
- Bi-directional IR path-through ۰
- Full Duplex RS-232 control up to 115,200 bps through connector
- Wall mounting housing design for easy and robust installation

The length depends on the characteristics and quality of the cables. Higher resolutions and longer transmission distances require low skew cables (<25ns/100m) for best performance. Unshielded CAT6 with metal RI45 connectors is recommended.

1x IR blaster

1x IR receiver

PACKAGE CONTENTS

- 1x K5700 [TX & RX]
- 2x 5V DC power supply
- 1x User Manual

Power consumption 3 Watt [max] 7 Watt [max] Operation 0~40°C [32~104°F] mperature -20~60°C [-4~140°F] torage temperature 20~90% RH [no condensation elative humidity

PANEL DESCRIPTIONS

Transmitting unit ► K5700-TX[RX] [Receiving unit]



RS-232: Connect to host/device serial port with a DSUB-9 male-male cable here

- Dip Switch: Setup the RS-232 mode for serial communication channel
- LED: TX/RX link indicator
- RJ45: Plug in a Cat-5/5e/6 cable that needs to be linked to the TX or RX.
- LED: Power indicator
- HDMI IN[OUT]: Connects to a HDMI source[Display] with a HDMI male-male cable
- IR Receiver: Infrared 3.5mm socket for plugging in the extension cable of IR receiver
- IR Blaster: Infrared 3.5mm socket for plugging in the extension cable of IR blaster
- Latch-locking power jack: Connect to 5V DC power supply

| DIP Switch Position TX & RX | | Description | |
|--------------------------------|--------------|---|--|
| DINH | ON [♣](DTE) | TxD: The 2 nd pin of RS-232, which is in charge of sending data RxD: The 3 rd pin of RS-232, which is in charge of receiving data | |
| PIN#1 | OFF [1](DCE) | TxD: The 3 rd pin of RS-232, which is in charge of sending data RxD: The 2 nd pin of RS-232, which is in charge of receiving data | |
| DIN#2 | ON [♥] | Firmware Update | |
| F 111#2 | OFF [1] | Normal | |

IR Sockets

IR BLASTER: plug in the IR blaster to emit all IR command signals received from the IR receiver from the other end to control the devices corresponding to the IR signals.

IR RECEIVER: plug in the IR receiver to receive all IR command signals from the IR remote controls of the corresponding devices.



Incorrect placement of IR Blaster and Receiver may result in the failure of the IR extenders. Please check carefully before plugging in the IR extender to the respective IR sockets. Warranty will not cover the damage

Definition of IR Earphone Jack





You can buy any IR extension cables in the market that are compatible to the definition of the IR sockets for the matrix if necessary for replacement use. However, IR cables longer than 2m (6-ft) may not work.