

# HDMI Repeater (for CAT-5e/6-Cable)

Model No. CSC 5

## Operating Instructions



## FEATURES

- Each module set (Transmitter and Receiver) is a closed system and does not need to be adjusted or configured.
- Please use an UTP LAN Cable (CAT-5e/6) to establish a long-range HDMI connection.
- UTP cable termination follows the standard of IEEE-568B.
- Transmission distance reaches up to 100 meters under the video format of 1080p.
- Auto adjustment of feedback, equalisation and amplification. The user does not have to take care about the cable adjustment.
- HIGH SPEED HDMI with Ethernet
- HDCP-compatible
- With LED indicators to show the power and video signal status.
- With integrated ESD protection.
- Mounting ears supplied.
- Additional 10m/100m Ethernet-transmission alongside the HDMI-Signal-Transfer
- Additional bidirectional transfer of the infrared-remote signal alongside the HDMI-signal
- This model can be cascaded.

## Dear Customer!

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

## Notice!

We Inc. reserves the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.



### **ATTENTION:**

#### **TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE:**

- 1) DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.
- 2) DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED.
- 3) TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.
- 4) DO NOT INSTALL NEAR ANY HEAT SOURCES SUCH AS RADIATORS, HEAT REGISTERS, STOVES, OR OTHER APPARATUS (INCLUDING AMPLIFIERS) THAT PRODUCE HEAT.
- 5) DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.
- 6) CLEAN THIS APPARATUS ONLY WITH DRY CLOTH.
- 7) UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.
- 8) PROTECT THE POWER CORD FROM BEING WALKED ON OR PINCHED PARTICULARLY AT PLUGS.
- 9) ONLY USE ATTACHMENTS/ACCESSORIES SPECIFIED BY THE MANUFACTURER.
- 10) REFER ALL SERVICING TO QUALIFIED SERVICE PERSONNEL.

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## **INTRODUCTION**

The CSC 3 Set is a HDMI which uses CAT-5E/6 cable for transmitting data. It consists of a transmitter and a receiver.

The benefits of CSC 5:

- 1) The length of a HDMI cable is fixed and unchangeable after it is produced. Because the HDMI connector can only be soldered or terminated by professional worker in the factory, the users can not reduce or increase the length by themselves. However CAT-5E/6 cables are available everywhere and be processed easily by the user or installer.
- 2) By using CSC 5, the transmission distance for 1080P reaches 100. At a length of more than 10 metres, standard HDMI cables must be customized.
- 3) CSC 5 has the ability of buffering and amplifying. Serial connection of several CSC 5, achieves long distance signal transmission. When two or more CSC 5 are connected in series, they can be used to create a larger signal distribution.
- 4) Due to the infrared-system of the remote controls, signals can be transmitted into both directions.

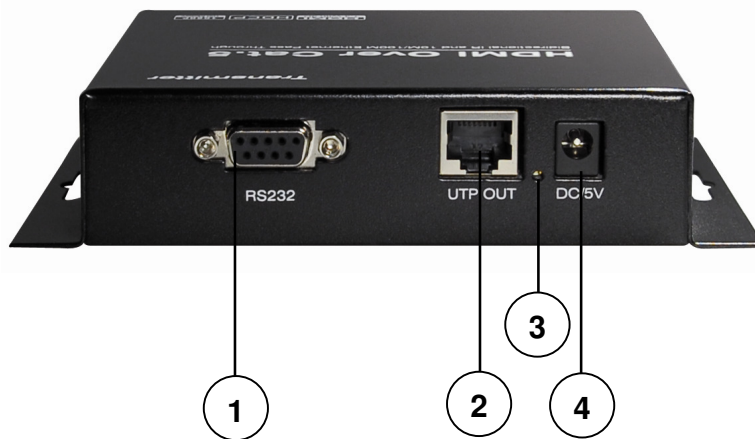
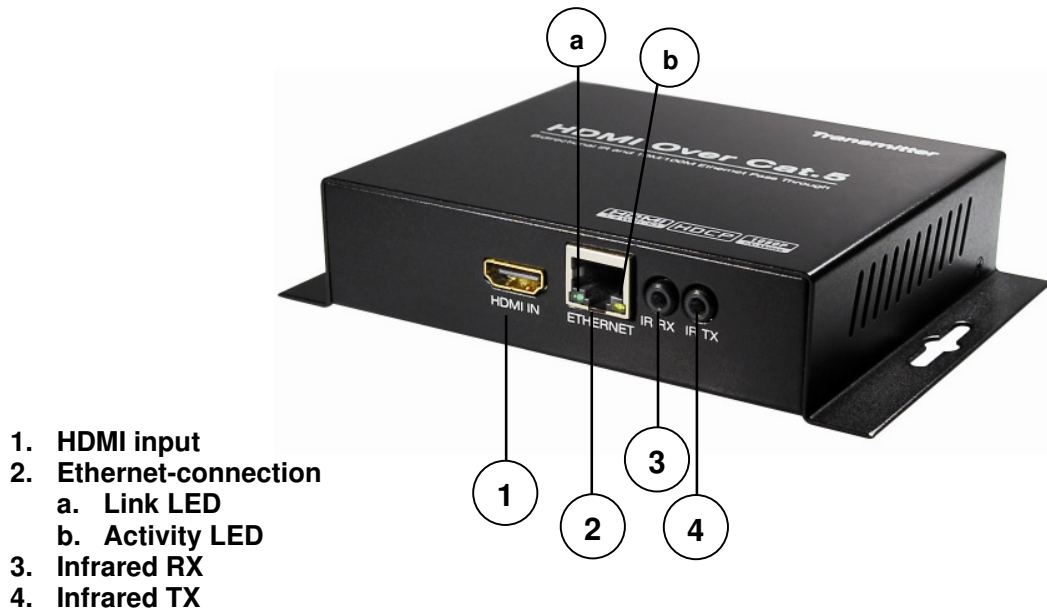
The CSC 5 offers solutions for digital entertainment centers, HDTV retail and show sites, STB, DVD and projector application, surveillance and security concerns, data center control, information distribution, conference room presentation, school and corporate training environments.

## **Content**

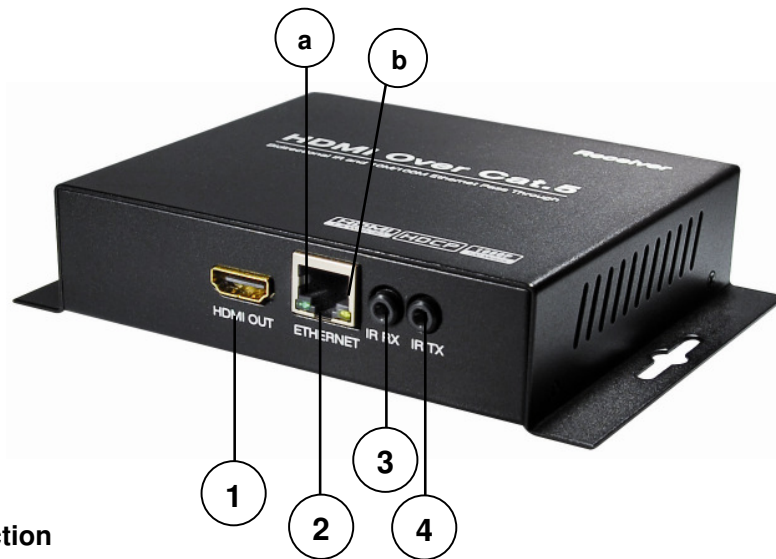
- 1) Transmitter
- 2) Receiver
- 3) Operation instruction
- 4) 2 x 5V DC-power supply
- 5) 1 x Infrared-TX-device (transmitter cable)
- 6) 1 x Infrared-TX-device (receiver cable)

## PANEL DESCRIPTION

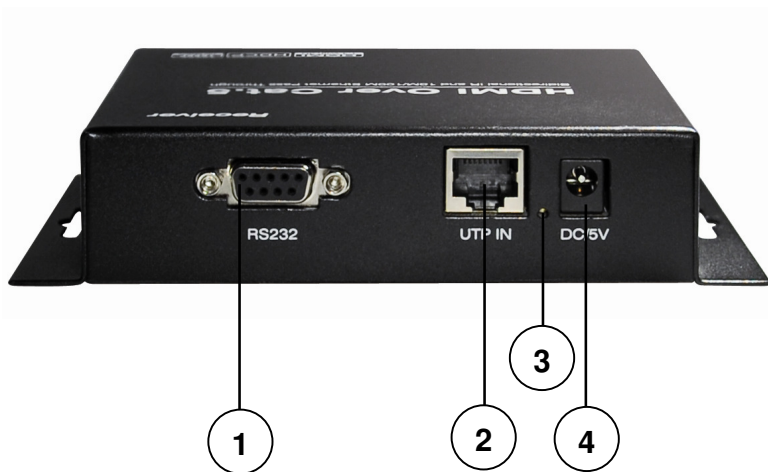
### CSC 5 Transmitter



## CSC 5 Receiver



1. HDMI-output
2. Ethernet-connection
  - a. Link LED
  - b. Activity LED
3. Infrared RX
4. Infrared TX



1. RS232-connection (for servicing purposes)
2. Link
3. UTP-Eingang
4. Status of power input. If switched on, the LED lights up
5. 5 V DC mains in

## CONNECTION AND OPERATION

1. Connect the HDMI input source (e.g. HD-DVD, PS3, STB etc.) with the transmitter.
2. Connect the UTP-output of the transmitter and the UTP-input of the receiver using a Cat-5E/6E cable.
3. Connect the receiver and the signal source (DVD-, BlueRay-Player, PS3, STB) using a HDMI-cable.
4. Connect a IR-transmitter modul to the TX contact of the CSC 5 transmitter and a IR-receiver module to the RX contact of the CSC 5 receiver.
5. Connect a IR-receiver modul to the RX contact of the CSC 5 transmitter and a IR-receiver modul to the TX contact of the CSC 5 receiver.
6. Should you require an additional Ethernet signal transmission, please connect the network Cat-5e/6-cable with the ethernet-contact of the CSC 5.

**Attention: Please be careful when connecting and disconnecting cables, to avoid the damage of the plugs and sockets.**

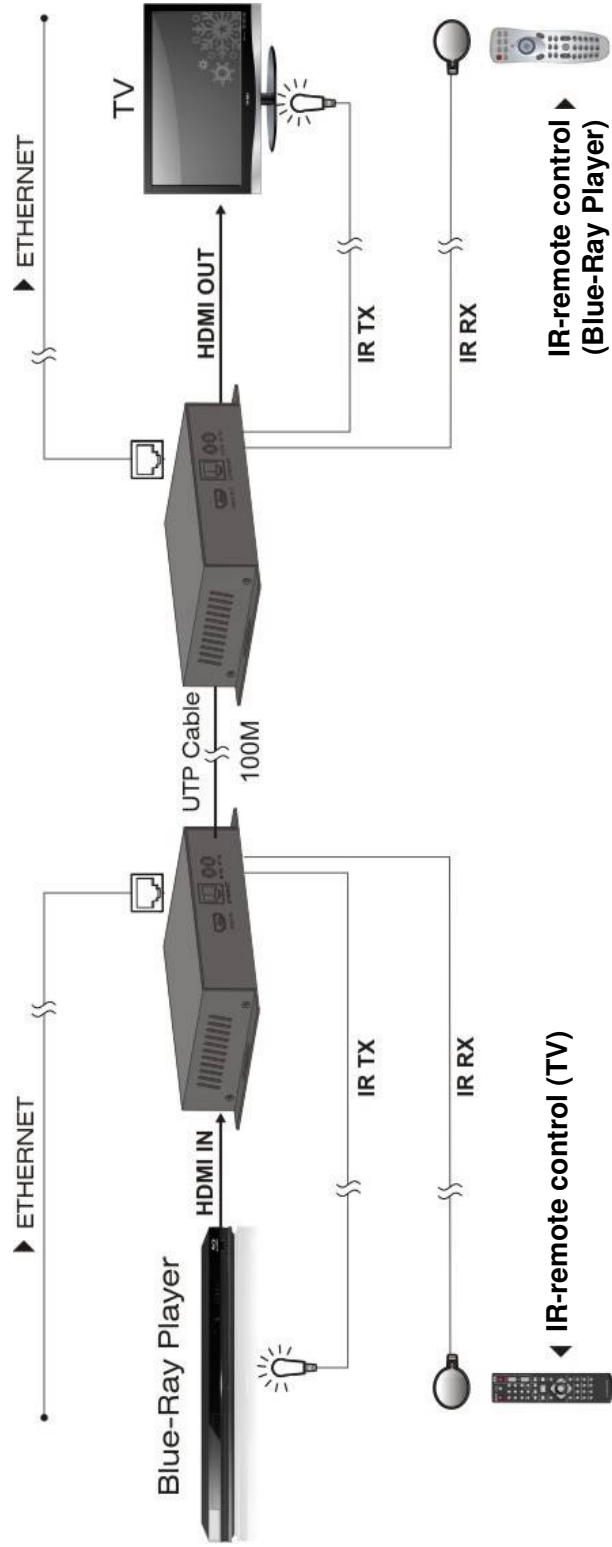
## TECHNICAL DATA

Operating Temperature Range	-5 to +35 °C (-41 to +95 °F)
Operating Humidity Range	5 to 90 % RH (no condensation)
Input Video Signal	0.5-1.0 Vpp
Input DDC Signal	5 Vpp (TTL)
Video Format Supported	DTV/HDTV; 1080P/1080i/720P/576P/480P/576i/480i
Output Video	Max. transmitting distance
Output Audio	DTS-HD, Dolby HD
Max. transmitting distance	up to 100 m
Power supply	5VDC
Power input	2.5 - 5 W max.
Dimensions	152mmW×105mmH×31mmD/5.98"W×4.13"H×1.22"D
Weight (main device)	0.9 kg (Pairs)/1.98lb

**\*Note: Specifications are subject to change without notice. Mass and dimensions are approximate.**



## Characteristic Application



## MAINTENANCE

Clean this unit with a soft, dry cloth only. Never use alcohol or other cleaning agents.

## PRODUCT SERVICE

- 1) The **unit should be serviced by qualified service personnel if:**
  - (a) The DC power supply cord or AC adaptor has been damaged;
  - (b) Objects or liquids have gotten into the unit;
  - (c) The unit has been exposed to rain;
  - (d) The unit does not operate normally or exhibits a marked change in performance;
  - (e) The unit has been dropped or the cabinet has been damaged.
- 2) **Service-Personnel:** Do not attempt to service the unit beyond the described matters. Refer to authorized servicing personnel in other cases.
- 3) **Replacement:** Should parts need replacing ensure using parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.
- 4) **Safety check:** After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

## Warranty

If your product does not work properly because of a defect in materials or workmanship, We Company (referred to as “the warrantor”) will, for the length of 1 year which starts with the date of original purchase (“Limited guarantee period”), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

During the “Labor” Limited guarantee period there will be no charge for labor. During the “Parts” guarantee period, there will be no charge for parts. You must mail-in your product during the guarantee period. This Limited guaranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of original purchase date is required for Limited guaranty service.

### Mail-In Service

When shipping the unit, carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

SHOULD REPAIR BE REQUIRED DURING THE LIMITED GUARANTEE PERIOD THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.

### Limits of restricted guarantee and exemptions

- 1) This Limited guarantee ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited guarantee ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributable to acts of nature beyond control.
- 2) THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS GUARANTEE. (This excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the servicer, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.)
- 3) PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED GUARANTEE, ARE OF THE RESPONSIBILITY OF THE PURCHASER.



**Thank you for your purchase!**

**Please contact us should your require further information!**

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