



TRIBUTARIES®

Bringing it all **together**

HDMI™

HIGH-DEFINITION MULTIMEDIA INTERFACE

EXTENDER

over 1 CAT6



HX1C6

Extends HDMI 140 feet

www.tributariescable.com

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HX1C6

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1. Introduction

The Tributaries HX1C6 HDMI 1.3 Transmitter (Tx) and Receiver (Rx) is a system designed to extend an HDMI signal over a long distance without loss. Using the same electronics as the original HXC6IR but sacrificing CEC and IR control; the HX1C6 is able to send an uncompressed HDMI signal over 1 CAT6 cable. The HX1C6 will transfer Deep Color (12 bits/color) video and new lossless compressed (Dolby® TrueHD, Dolby® Digital Plus and DTS®-HD Master Audio) digital audio, with a bandwidth up to 225MHz (6.75Gbps).

2. Features

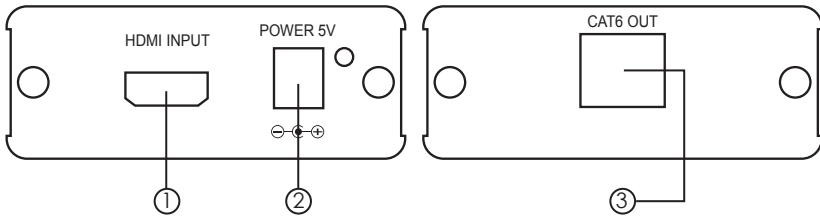
- Extends 12 bit color 1080p resolution up to 10 meters over single CAT6
Supports input/output HDMI cables up to 10 meters
- Extends 8 bit color 1080p resolution up to 45 meters over single CAT6
Supports input/output HDMI cables up to 15 meters
- Compliant with HDMI 1.3, HDCP 1.1 and DVI1.1 standards
- Supports digital video formats in Deep Color Mode at up to 36 bits (12bits/color)
- Supports new lossless compressed (Dolby® TrueHD, Dolby® Digital Plus and DTS®-HD Master Audio) digital audio
- Supports one CAT-6 cable for data/DDC transmission
- Equalization and recovery of incoming TMDS data signal prior to re-transmitting.
- Supports xvYCC Color Space

3. Package Contents

- HX1C6-TX Transmitter
- HX1C6-RX Receiver
- Two 5V/1A universal DC Power Supplies
- Operation manual

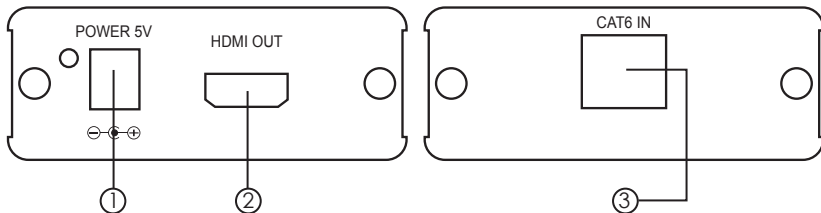
4. Operation Controls and Functions

Transmitter Unit



- 1 HDMI INPUT:** Connect to the HDMI output of your source equipments such as a DVD player or Set-top-box with an HDMI cable.
- 2 DC 5V:** Connect the 5V DC power supply to the HX1C6. Then connect the adaptor to an AC wall outlet.
- 3 CAT6 OUT/IN:** Connect the CAT6 output of the transmitter to a CAT6 cable terminated with CAT6 RJ45 connectors to the CAT6 input of the receiver.

Receiver Unit



- 1 DC 5V:** Connect the 5V DC power supply to the HX1C6. Then connect the adaptor to an AC wall outlet.
- 2 HDMI OUTPUT:** Connect the HDMI input of your display, or to extend the signal distance, cascade to another HX1C6 transmitter.
- 3 CAT6 OUT/IN:** Connect the CAT6 output of the transmitter to a CAT6 cable terminated with CAT6 RJ45 connectors to the CAT6 input of the receiver.

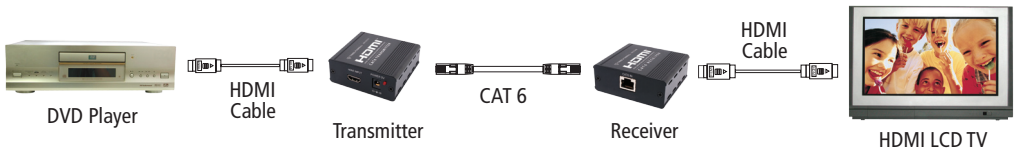
NOTE:

A. The system has been pre-tested with CAT-6/23AWG/solid core cabling. Using cables of another type may result in a different operating distance.

B. The equipment used in testing the cable distance included: Blu-ray player and a LCD TV connected with Tributaries solid 23AWG CAT6 cable terminated with Tributaries RJ456 Cat6 connectors.

C. Figures provided in this manual are for reference only. Actual performance will depend upon the source and display used along with the type of cable and the integrity of the cable/connector termination

5. Connection and Installation



6. Specifications

- Frequency Bandwidth: 2.25Gbps (single link)
- Transmitter I/O Connectors: (1)HDMI female connector,
(1) CAT6 RJ45 female connector
- Receiver O/I Connectors: (1) HDMI Female connector,
(1) CAT6 RJ45 female connector
- Power Supply: 5V/1A DC (US/EU standards, CE/FCC/UL certified)
- Dimensions (Tx & Rx): 3 $\frac{1}{8}$ " (78.5mm)W x 2 $\frac{7}{8}$ " (72mm)D x 1 $\frac{1}{8}$ " (30mm)H
- Weight (Tx & Rx): 3.2oz (90g)
- Chassis Material: Aluminum
- Power Consumption TX: 3.5w ; RX: 2w
- Operating Temperature: 32°F ~ 104°F / 0°C ~ 40°C
- Storage Temperature: -4°F ~ 140°F / -20°C ~ 60°C
- Relative Humidity 20~90% RH (non-condensing)

HDMI Electronics 2 Year Warranty

This Warranty only applies to products purchased and used in the United States of America. Products purchased or used outside the United States are subject to such warranties, if any, as are provided by the Tributaries distributor in the respective countries.

Scope and Duration of Warranty

Subject to the terms and conditions stated below, Gordon J. Gow Technologies, Inc., ("Gow") warrants that this Product shall be free from defects in workmanship or materials for a term of two (2) years from the date when it was purchased from an Authorized Gow Dealer.

What Gow Will Do Under the Warranty

In the event of any defect covered by this warranty, Gow shall without charge provide all parts, materials, and labor necessary to restore the Product to its original specifications, and shall return the Product to its owner at Gow's expense. In the alternative, Gow may at its sole option either replace the Product without charge, or if replacement is not commercially practicable or repair or replacement cannot be accomplished within a reasonable time, Gow may refund the purchase price of the Product, subject where appropriate to reasonable depreciation for use in accordance with applicable laws, in full satisfaction of its warranty obligations. Gow will undertake to complete the repair and return of the Product as soon as circumstances permits, unless prevented by causes beyond its reasonable control.

LIMITATIONS ON GOW'S OBLIGATIONS UNDER THE WARRANTY

GOW'S SOLE OBLIGATION UNDER THIS WARRANTY SHALL BE TO REPAIR OR REPLACE THE PRODUCT, OR AT ITS OPTION REFUND THE PURCHASE PRICE, AS PROVIDED FOR HEREIN ABOVE. GOW DOES NOT WARRANT AGAINST, NOR SHALL IT BE LIABLE FOR, ANY OF THE FOLLOWING: REMOVAL OR INSTALLATION CHARGES: SHIPPING EXPENSES TO GOW OR ITS AUTHORIZED SERVICE FACILITY: PROPERTY DAMAGE OF ANY KIND: OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES OF ANY KIND.

Note: Some states do not allow exclusion or limitation of consequential damages, so the foregoing exclusion may not apply.

Exclusions:

Parts and Occurrences That Are Not Covered by the Warranty

This Warranty does not cover any of the following: (A) glass panels, cabinetry, trim, or any other appearance items (except) where they are defective at the time of original sale and the Product is delivered for repair within the first thirty (30) days thereafter: (B) batteries, or failure of or damaged to the Product caused by batteries; (C) failures arising from catastrophe, misuse, neglect, or failure to properly connect an operate the Product in accordance with the accompanying instructions; (D) failures arising from improper installations of the Product or incompatibility of other components in the

system of which the Product is a part; (E) failures of any kind in Products (I) which have been purchased from other than an Authorized Gow Dealer, or (II) which evidence any tampering, alteration, or attempted servicing by anyone other than Gow or an Authorized Gow Service Facility, or (III) which are not delivered or shipped to Gow or an Authorized Service Facility within the two (2) year Warranty term; and Gow shall have no liability or obligation of any kind with respect to any of the foregoing types of failures.

What the Owner Must Do to Obtain Service Under This Warranty

To obtain service under this warranty, the owner must at the owner's expense (I) arrange for any necessary de-installation of the Product, and (II) return the Product to the Authorized Gow Dealer from which it was purchased. If return to the Authorized Gow Dealer is impracticable, the owner must deliver or ship the Product, properly packaged, prepaid, and insured, to Gow at the address below, or to an Authorized Gow Service Facility. In addition, the owner must provide evidence that the Product is a the time of delivery with the scope of this Warranty, by either having completed and submitted to Gow on a timely basis the Warranty Registration Card, if one is included with the Product, or by including the original or a legible copy of the dated sales receipt with the Product when submitted for repair. All Products must also be accompanied by the owner's name, address, and telephone number.

What the Owner Must Pay For

As noted above, the owner must arrange and pay any expense for removing the Product from its installation and delivering it to Gow or the Authorized Gow Service Facility. Upon return of the Product to the owner following repair, it shall be the owner's responsibility to arrange and pay for any reinstallation which may be required. In addition, it shall be the owner's obligation to pay for any repairs made to Products for which the owner has neither completed and submitted (where one is included) the warranty Registration Card at the time of purchase nor include a legible copy or the original of the dated sales receipt with the Product when delivered for service, or which are otherwise subject to the exclusions noted above, at Gow's or its Authorized Service Facility's then current repair rates.

How to Learn Where the Nearest Authorized Gow Service Facility is, or Obtain Answers to Other Questions Concerning This Warranty

In order to learn the name and address of the nearest Authorized Gow Service Facility, obtain instructions for shipment of a covered Product to Gow, or obtain the answers to any other questions you may have concerning this Warranty, you may telephone Gow between the hours of 9:00a.m. and 5:00p.m. Eastern Time, Monday through Friday, at 1.888.554.2514, or write to Service Department, Gordon J. Gow Technologies, Inc. 6448 Pinecastle Blvd; Suite 101, Orlando, FL 32809, (Fax 1.800.553.1366).

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



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