PureLink

HEXA-01 Owner's Manual

HEXA-01

HDMI Audio Extractor with Downmixing

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Chapter 1. Introduction

1.1 Safety Precautions

When using and installing Dtrovision PureLink product, adhere to the following basic safety precautions.

- Read and understand all instructions before using and installing this product.
- The safety and operating instructions should be retained for future reference.
- Always use the correct external power supply (indicated on the product label) when operating this unit.
- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Mishandling of this product may lead to a fire or explosion hazard.
- Do not place any heavy objects or equipment on top of the product.
- Keep away from wet, magnetic, and flammable surfaces or substances.
- Air vents should be kept clean and unobstructed at all times.
- Any external impact may cause damage to the operation of this unit.
- Be sure this product is properly grounded (earthed) in order to prevent the risk of electrical shock.
- Turn off and unplug power before adding or removing Input/Output Boards.
- Input/Output Boards may be damaged when they are replaced with power turned on.
- Use surge protectors and/or AC line conditioners when powering this product.
- Only use a fuse(s) with the correct fuse rating in your enclosure.
- Make sure the product is on or attached to a stable surface.

If you experience any malfunctioning of product or have any question as to operation of the product, please contact our customer service center.

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1.2 Product Introduction

PureLink's HEXA01 is an audio extractor for HDMI with PCM multi-channel to 2-channel downmixing capabilities.

* HEXA01 supports downmixing of up to 5.1 channel PCM audio sources. It does not support downmixing of 7.1 channel PCM audio sources.

The HEXA01 - housed in a compact, portable frame, along with low power consumption – provides a simple and convenient way to extract audio from an HDMI signal.

1.3 Package Contents

Please make sure all of the following items are included in the package:
1) HEXA01
2) Firmware download cable (USB to mini USB)
3) DC 12V power supply adapter with an AC cord

Chapter 2. Features and Specifications

2.1 Features

Digital and Analog audio support

HDMI Audio extractor with PCM Multi-channel to 2 channel downmixing, and simultaneous HDMI, analog stereo, and digital S/PDIF outputs.

* HEXA01 supports downmixing of up to 5.1 channel PCM audio sources. It does not support downmixing of 7.1 channel PCM audio sources.

Balanced or unbalanced analog audio

Equipped with a 5-pin Phoenix Connector port supporting balanced or unbalanced analog stereo audio.

HDMI v1.4, 3D Support

Adopting latest HDMI version 1.4 enables to support 3D, 48-Bit Deep Color and 7.1 Channel Dolby TruHD & DTS MasterHD

Auto-EDID (EDID Library, Emulation)

PureLink's EDID library and emulation features failsafe EDID capture & storage to provide constant and continuous EDID for source devices.

HDCP (High-bandwidth Digital Content Protection) Compliant

Field Upgradable

** Integrated Noise-cancellation and Error-correct Logic for both Input and Output port to prevent any damage caused by Electrical Noise.

2.2 Mechanical specification

Specifications	
Product Name	HEXA01
Data Transfer Rate	2.25 Gbps
Frequency Range	25 – 165 Mhz
Input Signal	Single link HDMI
Output Signal	Single link HDMI, SPDIF and Stereo audio
Supported Resolution	Up to WUXGA(1920X1200) 60Hz 480P~1080i/P
Input Connector Type	DC Power Jack, 19-pin Type A HDMI female
Output Connector Type	19-pin Type A HDMI female S/PDIF coaxial digital audio 5-pin 3.5mm detachable terminal block
Standard	HDMI Ver1.4 Compliant with High-bandwidth Digital Content Protection (HDCP) using DVI and HDMI standards
Power Consumption	DC +12V 3A, 36W Max
Dimensions	4.7''(w) x 4.4'(D)' x 1.5''(H) mm
Net Weight	1 lb

2.3 Operation and Reliability Specification

*The following settings are recommended in order to maintain optimal performance:

1. Operating Environment
    Temperature : 50F ~ 104F (10℃ ~ 40℃)
    Humidity   : 10% ~ 80%
    Altitude   : 3,000m Max.

2. Transit Environment
    Temperature : -13F ~ 140F (-25℃ ~ 60℃)
    Humidity   : 5% ~ 95%
    Altitude   : 15,000m Max.

3. Storage Environment
    Temperature : -4F ~ -49F (-20℃ ~ 45℃)
    Humidity   : 5% ~ 95%
    Altitude   : 3,000m Max.

4. Reliability
    MTBF: 90% at over 50,000 hours aging test
    In compliance with LCD Monitor reliability test standard

Chapter 3. Installation and Operating Instruction

3.1 Installation Guidelines

1) Before installing the HEXA01 audio extractor, turn OFF the source and display devices.

2) Connect the HDMI and/or audio cable.

3) Plug in the adapter to the HEXA01 power jack.

4) Plug the wall mount power supply into the wall outlet.

5) Turn ON the display device.

6) Turn ON the source device.

3.2 Control Settings

4.1 Switch No.1 : HDMI Audio Output ON/OFF

ON : HDMI Audio Output ON   OFF : HDMI Audio Output OFF

4.2 Switch No.2 : EDID setting

ON : Internal EDID setting   OFF : Display (connected to HDMI Out) EDID setting

4.3 Switch No.3 : Select Internal EDID (when switch 2 is ON)

ON : Select Multi CH audio EDID   OFF : Select 2 CH Audio EDID

3.3 EDID Settings
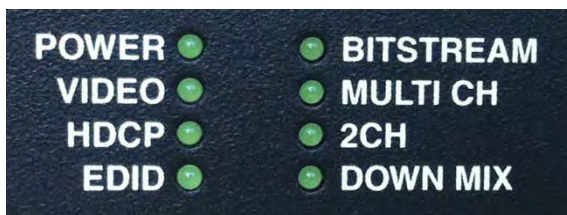
1) Internal EDID setting

Turn ON switch 2. Select settings for switch 3, then press SAVE to store internal EDID data.

2) Display EDID settings

Turn OFF switch 2, then press SAVE to reset the display EDID data.

3.3 LED Signals

POWER : Indicates that the power is ON
VIDEO : Indicates video signal input
HDCP : Indicates the video signal's HDCP compliance
EDID : The LED light will turn ON for 3-4 seconds, indicating that the EDID settings have been successfully saved.
  A blinking LED light indicates that the EDID settings have not been successfully saved.
BITSTREAM : Indicates that BITSTREAM audio has been detected.)
MULTI CH : Indicates Multi CH Audio signal input
2CH : Indicates 2CH Stereo Audio signal input
DOWN MIX : Indicates when Multi CH Audio is down-mixed out correctly

Chapter 4. Additional Information

4.1 Manufacturer's Warranty (2-Year)

Dtrovision warrants this HEX01 to be free from defects in workmanship and materials, under normal use and service, for a period of two (2) year from the date of purchase from Dtrovision or its authorized resellers.

If the product does not operate as warranted during the applicable warranty period, Dtrovision shall, at its option and expense, execute one of the following as necessary:

1. Repair the defective product or part
2. Deliver to customer and equivalent product or part to replace the defective item
3. Refund to customer the purchase price paid for the defective product

All products that are replaced become the property of Dtrovision, LLC.　　Replacement products may be new or reconditioned.　　Repaired or replacement products or parts come with a 90-day warranty or the remainder of the warranty period. Dtrovision shall not be responsible for any software, firmware, information, or memory data loss of contained in, stored on, or integrated with any products returned to Dtrovision for repair under warranty.

Customer Service

Any customer service inquiries can be submitted electronically through the Q&A form on our website at www.purelinkav.com. For immediate assistance please contact us at (201) 488-3232 to reach our customer care or tech support team.

4.2 FCC/CE Statement

This device complies with part 15 of FCC Rules and EN 55022/55024/61000-3 for CE certification. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must not accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 and 2 of FCC Rules and EN 55022/55024/61000-3 for CE certification. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and. if not installed and used in accordance with the instruction guide, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult a service representative for help.

Properly shielded and grounded cables and connectors must be used in order to comply with FCC/CE emission limits. Changes or modifications not expressly approved by the party responsible for compliance could void the user s authority to operate the equipment.

4.3 UL Statement
This device has completed a UL Commercial Inspection and Testing Services for the multimode HDMI cable complied with VW-1 under UL 758. it is validated by the UL file number SV2038 and project number 04CA05353.