

User Manual

USB-C to HDMI Converter

Model PT-C-CPDHD-18G-N
Designed in Germany

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Preface

Read this user manual carefully before using this product. Pictures shown in this manual are for reference only. Different model layouts and specifications are subject to the physical product.

This manual is for operation instructions only, not for any maintenance usage.

In the constant effort to improve our product, we reserve the right to make changes in functions or parameters without prior notice or obligation.

SAFETY PRECAUTIONS

To ensure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Unpack the equipment carefully and save the original box and packing material for possible future shipment
- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Do not put any heavy items on the extension cable in case of extrusion.
- Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
- Install the device in a place with fine ventilation to avoid damage caused by overheating.
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time.
- Information on disposal for scrap devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.

Product Introduction

The PT-C-CPDHD-18G-N is a 4K USB-C EDID HDCP Manager, USB-C input supports 4K60 (4:4:4), HDMI output support 5m long distance driver, extra PD port for USB-C charging, plug and play.

Feature

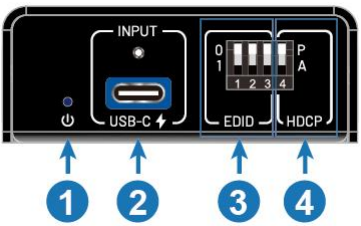
- USB-C video 18Gbps (4K 60Hz 4:4:4) to HDMI 2.0 conversion
- Integrated signal re-timer - up to 2.00m USB-C input, 5.00m HDMI output cable
- Integrated EDID and HDCP management
- Professional, mountable and semi user-facing ProAV housing design

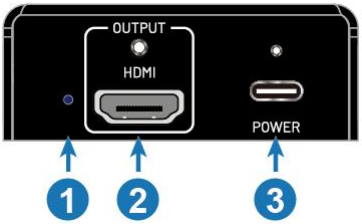
Package List

- 1 x PT-C-CPDHD-18G-N
- 2 x Mounting ears & 2x Screws
- 4 x Rubber feet
- 1 x Manual

Note: Please contact your distributor immediately if any damage or defect in the components are found

Panel Description



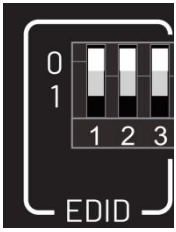


No.	Name	Description
Front Panel		
1	Power LED	The LED illuminates blue when the input source is connected.
2	USB-C IN	Input source, connects to any modern laptop or USB-C video source.
3	EDID	3-pin DIP Switcher, to set EDID resolutions.
4	HDCP	1-pin DIP Switcher, to switch HDCP modes.
Rear Panel		
1	LED	The LED illuminates Blue when the output is connected.
2	HDMI	Output, connects to any modern video display
3	USB-C Power	Connect with PD3.0 PSU. Max 20V 5A PSU.

Specification

Video	
Input	(1) USB-C IN
Input Connector	(1) USB Type-C
Input Resolution	Up to 4K@60Hz 4:4:4
Output	(1) HDMI OUT
General	
HDCP Version	Input: HDCP 2.2, HDCP 1.4 compliant
Operation	-5 to +55℃(+23° to +131°F)
Storage Temperature	-25 to +70℃(-13° to +158°F)
Relative Humidity	10% to 90%, Non-condensing
Power Supply	20V DC 5A
Power Consumption	1.3W (Full Load, without PD charging)
Dimension (W*H*D)	89 x 23 x 60 mm
Net Weight	125g

EDID Management



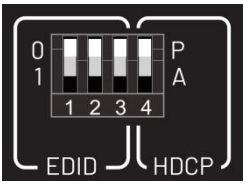
Switch Status	Video Resolution
000	Passthrough
001	1080p LPCM
010	WQHD@60Hz LPCM
011	4K@30Hz LPCM
100	4K@60Hz 420 LPCM
101	4K@60Hz LPCM
110	4K@30Hz HDR LPCM
111	4K@60Hz HDR LPCM

HDCP Management

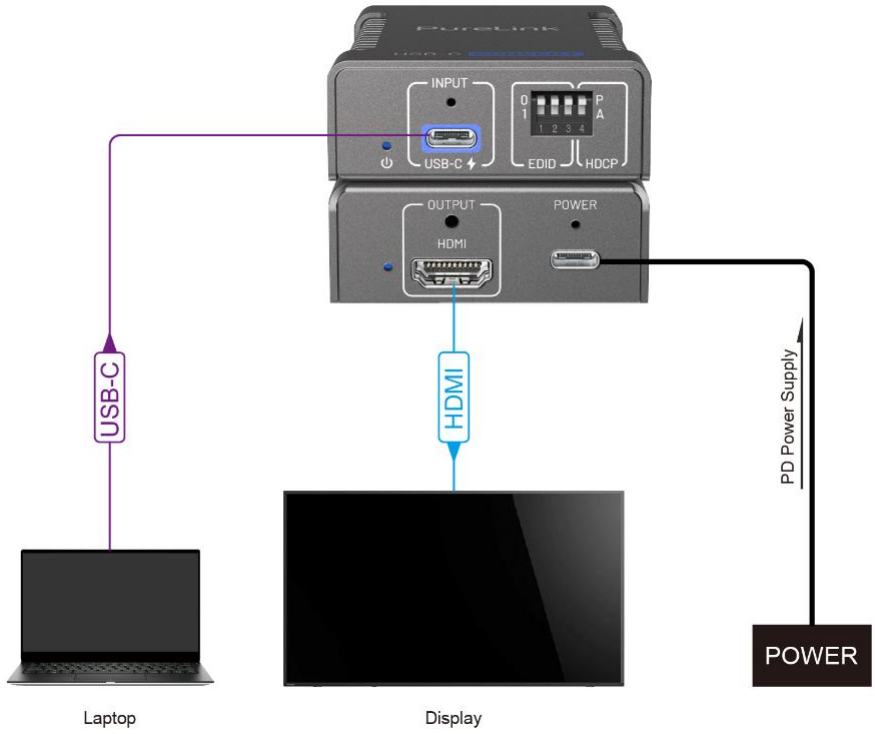


HDCP	MODE	Details
P	Passive Output HDCP	No HDCP
A	Active Output HDCP	The output HDCP follows display.

4-PIN DIP Switch: 0001(Default) – EDID passthrough, Passive HDCP



System Diagram



Supported Resolution

The resolution of input is supports up to 4K@60Hz 4:4:4, the tested resolutions are as follow:

4096x2160@60Hz RGB 8bit
4096x2160@60Hz 4:2:2 8bit
4096x2160@60Hz 4:2:0 10bit
4096x2160@60Hz 4:2:0 12bit
3840x2160@60Hz 4:4:4 8bit
3840x2160@60Hz 4:2:2 8bit
3840x2160@60Hz 4:2:0 8bit
3840x2160@60Hz 4:2:0 10bit
3840x2160@60Hz 4:2:0 12bit
3840x2160@30Hz RGB 8bit
3840x2160@30Hz RGB 10bit
3840x2160@30Hz RGB 12bit
3840x2160@30Hz 4:4:4 8bit
2560X1440@60Hz
1920x1200@60Hz
1080p@60Hz 4:4:4 8bit
1080p@60Hz 4:4:4 12bit
1080p@60Hz 4:2:2 8bit
1080p@60Hz RGB 8bit

Trademarks

Product model and logo are trademarks. Any other trademarks mentioned in this manual are acknowledged as the properties of the trademark owner. No part of this publication may be copied or reproduced without prior written consent.

Disclaimer of Liability

PureLink GmbH will not be held liable, nor provide any warranty for damage resulting from improper installation, assembly and use of the product, or failure to observe the operating instructions and/or safety instructions.

Product Conformity and Recycling

Declaration of Conformity

PureLink GmbH hereby declares that this product **PureTools PT-C-CPDHU-18G** complies with the **RoHS Directive 2011/65/EU amended by 2015/863 EU,** the **EMC Directive 2014/30/EU**, **LVD Directive 2014/35/EU** and **Ecodesign Directire 009/125/EC**. The full text of the EU Declaration of Conformity is available at the following Internet address:

http://www.purelink.de

Recycling

According to the European WEEE Directive, electrical and electronic equipment may not be disposed of with household waste. As a consumer, you are obliged to return electrical and electronic equipment free of charge at the end of its service life to the public collection points set up for this purpose or to the point of sale. Details on this are regulated by the respective national law.

The symbol on the product, the instructions for use or the packaging refers to these regulations Recycling old appliances in this way is an important contribution to the protection of our environment.

WEEE Reg Nr. DE 93847290

After-Sales Service

If there appear some problems when running the product, please check and deal with the problems referring to this user manual. Any transport costs are borne by the users during the warranty.

- **Product Limited Warranty:** This product will be free from defects in materials and workmanship for **three years** (The purchase invoice shall prevail).
  Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

- **What the warranty does not cover (servicing available for a fee):**
  - Warranty expiration.
  - Factory applied serial number has been altered or removed from the product.
  - Damage, deterioration or malfunction caused by:
    - Normal wear and tear.
    - Use of supplies or parts not meeting our specifications.
    - No certificate or invoice as the proof of warranty.
    - The product model showed on the warranty card does not match with the model of the product for repairing or had been altered.
    - Damage caused by force majeure.
    - Servicing not authorized by distributor.
    - Any other causes which does not relate to a product defect.
  - Delivery, installation or labor charges for installation or setup of the product.

- **Technical Support:** For any questions or problems, contact your distributor or reseller and tell them the respective product name and version, the detailed failure situation as well as the formation of the cases.

Asking for Assistance

Technical Support:

Phone: +49 5971 800299 - 0

Fax: +49 5971 800299 – 99

Technical Support Hours:

8:30 AM to 5:00 PM Monday thru Thursday

8:30 AM to 4:00 PM Friday

Write to:

PureLink GmbH

Von-Liebig-Straße 10 D - 48432 Rheine

www.purelink.de