CYP

CLUX-DDP
DVI to DVI Enhancer with EDID Management

Operation Manual

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SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

REVISION HISTORY

VERSION NO.	DATE (DD/MM/YY)	SUMMARY OF CHANGE
RDV1	28/03/16	Preliminary Release

CONTENTS

1. INTRODUCTION

The DVI Enhancer with EDID Management is a handy device for your DVI signal extension and differentiation. With 3G bandwidth and EDID selection this device allows you with fast and clear viewing on the DVI signal status. Further, this device allows user to upload EDID for selection which create alternative EDID selection for specific usage. Last but not least, EDID hot keys and LEDs design allow fast switching and quick viewing on the status.

2. APPLICATIONS

- DVI signal extension
- EDID selection
- Gaming/Commercial Display

3. PACKAGE CONTENTS

- 1 x DVI Enhancer with EDID Management
- 1 x 5V/2.6A DC Power Adaptor
- 1 x Operation Manual

4. SYSTEM REQUIREMENTS

Input DVI source signal with output DVI display and connection cables.

5. FEATURES

- DVI with 3G supported, HDCP and HDMI compliant
- Supports video source and output display signal analysis
- Supports EDID selection from internal, external and user's EDID to be insert
- Supports application control via USB
- Supports LEDs display with fast viewing on current selection status
- Supports USB firmware update

6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel
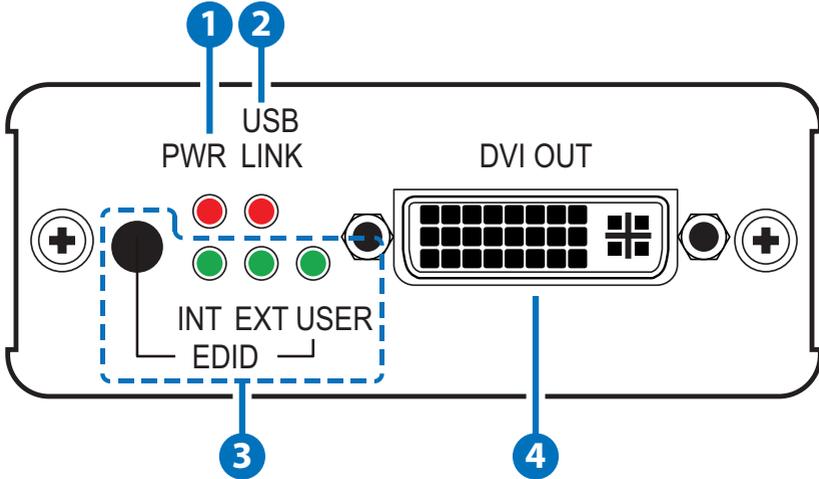
1 **Power:** This LED will illuminate when the device is connected to an active power supply.

2 **USB LINK:** This LED will illuminate when the connected USB device is valid for PC control.

3 **EDID:** Press this button to select EDID of INTernal/EXTernal or USER where internal EDID is 1080p at 2Ch, external EDID is depending on the connected DVI output display and USER is for user to upload with default setting on 1080p 2CH.

4 **DVI OUT:** Connect to DVI display for output display.

![CYP logo]

6.2 Transmitter Rear Panel
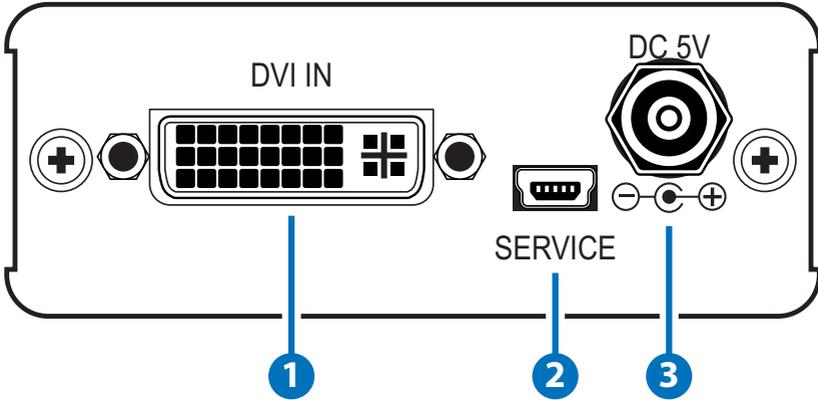
1 **DVI IN:** Connect with DVI source equipment such as PC or Graphic card devices.

2 **SERVICE:** This is reserved for firmware update use and EDID Manager Tool only.

3 **DC 5V:** Connect the adapter included in the package and connect to AC wall outlet for power supply.

6.3 EDID Manager

This unit includes an EDID Manager application that allows user to manage EDID from PC to display. The application can be downloaded from www.cypress.com.tw with file name CDPS 2016.

Once the file has been downloaded successfully an icon of CDPS

2016 will appear. Connect the unit under power ON status with USB cable from PC/Laptop. Click on Search to allow the unit to be lined up.

Once the search is done successfully, click on DVI Enhance to bring up the EDID Controller.
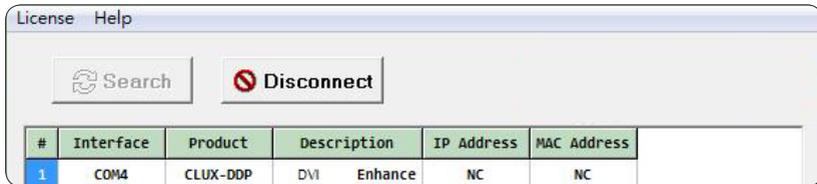
User may select EDID from Internal, External or User as a reference for input HDMI source, the selection will act correspondingly with the unit's LED light. EDID may be uploaded, simply by open the EDID's *.bin file and click on Upload the unit will check EDID's Header and Checksum and proceed the upload. When the upload is successfully done EDID mode will switch to User.

EDID may also be downloaded, simply by a click on Internal, External or User and the unit will download current EDID with a pop up screen to save.
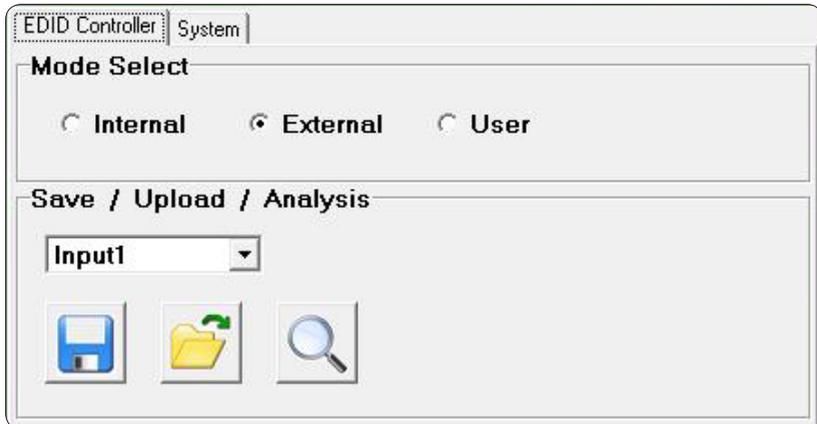
Click on System to learn the unit's Current Firmware version. To update simply open the *.bin file and click on Update. Once the update is finished click on Disconnect and re-power on the unit will complete the update procedure.
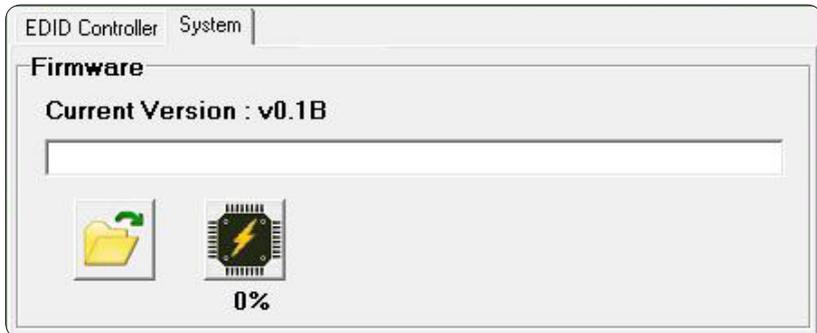
To use the advance features like EDID Analyzer and Creator requires registration and approval license. Please consult with vendor for further advanced features.

7. CONNECTION DIAGRAM

PC or Notebook

DVI Cable

DVI IN

DC 5V

SERVICE

USB
PWR LINK

DVI OUT

INT EXT USER
EDID

DVI Cable

Monitor or Display
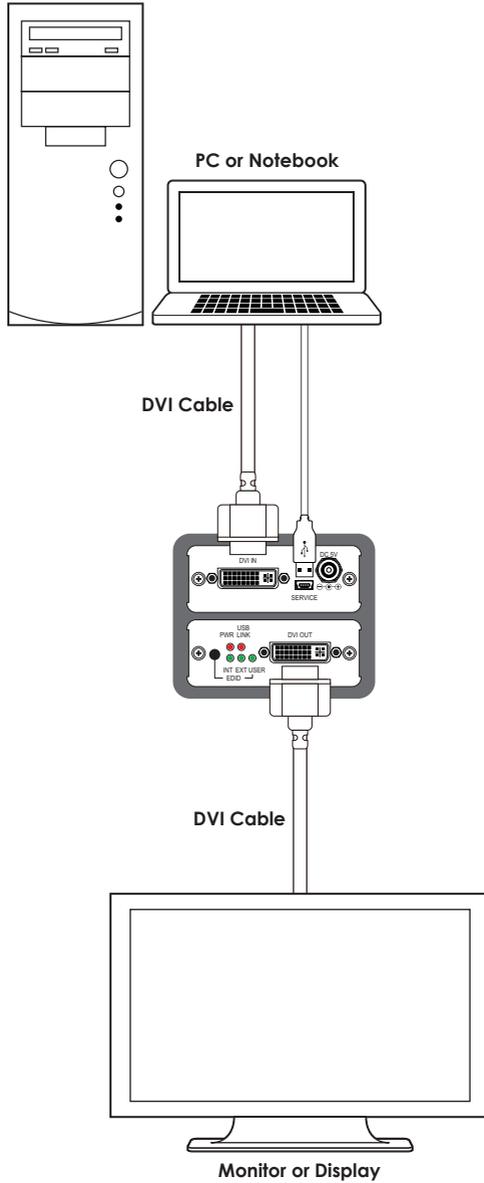
8. SPECIFICATIONS

8.1 Technical Specification

Video Bandwidth	300MHz/9Gbps
Input Ports	1 x DVI
	1 x mini-USB(Service)
Output Ports	1 x DVI
Supported Resolutions	VGA~WUXGA(RB)
	480i~1080p@24/50/60
	4K2K@24/25/30/50/60(YUV420)
DVI Cable Distance	5m@4K2K/60_YUV420
	10m@1080p/12-bit
	15m@1080p/8-bit
Power Supply	5VDC/2.6A (US/EU standards, CE/FCC/ UL certified)
ESD Protection	Human Body model: ± 8kV (air-gap discharge) ± 4kV (contact discharge)
Chassis Material	Metal
Silkscreen Color	Grey
Dimensions	78.5mm (W) x 72mm (D) x 30mm (H) (Jacks excluded)
	78.5mm (W) x 84mm (D) x 30mm (H) (Jacks included)
Weight	146G
Operating Temperature	0˚C~40˚C/32˚F~104˚F
Storage temperature	-20˚C~60˚C/-4˚F~140˚F
Relative Humidity	20~90% RH (no condensation)
Power Consumption	1.32 W

8.2 Supported Resolutions

DVI AND HDMI SUPPORTED RESOLUTIONS	INPUT	OUTPUT
640x480@60/72/75/85	✓	✓
800x600@56/60/72/75/85	✓	✓
1024x768@60/70/75/85	✓	✓
1280x1024@60	✓	✓
1366x768@60	✓	✓
1600x1200@60	✓	✓
1920x1080@60	✓	✓
1920x1200@60	✓	✓
1440x576i@50	✓	✓
1440x480i@59.94/60	✓	✓
720x480p@59.94/60	✓	✓
720x576p@50	✓	✓
1280x720p@50/59.94/60	✓	✓
1920x1080i@50/59.94/60	✓	✓
1920x1080p@23.97/24/25/29.97/30/50/59.94/60	✓	✓
3840x2160@24/25/30	✓	✓
3840x2160@50/60_YUV420	✓	✓
4096x2160@24/25/30	✓	✓
4096x2160@50/60_YUV420	✓	✓

MPM-CLUXDDP