



4x4 4K60 18G Matrix

User Manual
Benutzerhandbuch
Manuel Utilisateur
Manuale

English
Deutsch
Français
Italiano



No. 38245

lindy.com



Tested to Comply with
FCC Standards
For Home and Office Use!

Introduction

Thank you for purchasing the LINDY 4x4 4K60 UHD HDR HDMI 18G 2.0 Matrix, this product has been designed to provide trouble free, reliable operation. It benefits from both a LINDY 2 year warranty and free lifetime technical support. To ensure correct use, please read this manual carefully and retain it for future reference.

Package Contents

- 4x4 4K 18G Matrix
- 24V 2.7A DC PSU with ~1.2m power cable, with 4 pin din plug
- 1.8m Country specific IEC mains cable
- 2m IR Extension cable
- IR Remote control including CR2025 3V battery
- Quick Install Guide

Features

- HDMI 2.0, HDCP 2.2, DVI
- Resolutions up to 4K2K@60Hz Including 3D 1080p
- Full 18G bandwidth and 600Mhz TMDS
- Up to YUV 4:4:4 & 48 bit deep colour
- 7.1 channel of LPCM, Dolby TrueHD and DTS-HD Master Audio digital audio signals
- RS232, IR remote control & IP control for switching

Specification

- Input Ports: 4 x HDMI Female, IR ,RS232, RJ45, mini USB, Power
- Output Ports: 4 x HDMI Female
- Power Supply: DC 24V 2.7A
- ESD Protection Human Body Model: $\pm 8kV$ (air-gap discharge) $\pm 4kV$ (contact discharge)
- Dimensions: 43.6 x 16 x 4.4cm (WxDxH)
- Weight: ~2kg
- Operating Temperature: 0°C ~ 40°C
- Storage Temperature: -20°C ~ 60°C
- Relative Humidity: 20 ~ 90% RH (Non-condensing)
- Power Consumption: 21W Max

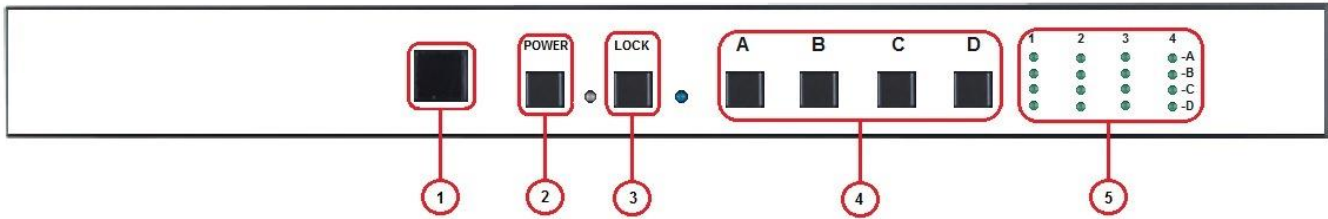
Installation

Make sure all devices are switched off before making any connections! Once all the connections have been made, switch on the devices in this order: displays, HDMI Matrix, source devices.

Connect the source devices such as a DVD player or games console to the HDMI matrix input ports. Then connect the high definition displays to the HDMI matrix output ports. When all the connections are made, connect the power supply and switch on.

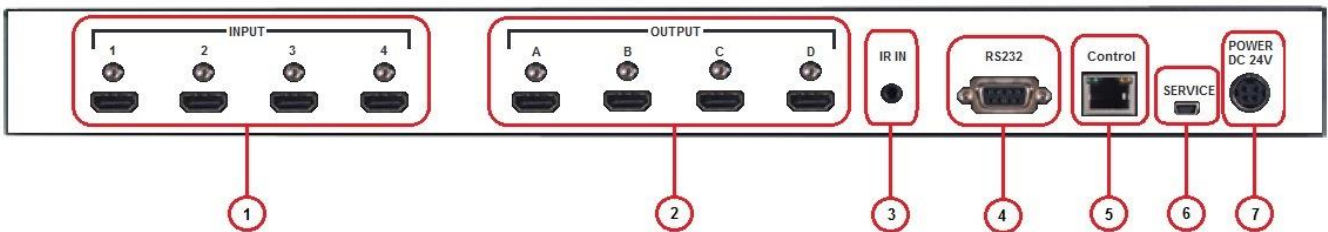
Operation

Front panel



1. IR WINDOW: The remote control will need to be pointed at this window to control switching
2. POWER BUTTON: Press the button to power the Matrix on/off
3. LOCK: Press the button to lock all the buttons on the panel; press again to unlock
4. A-D BUTTONS: Press a button to set the input source
5. 1-4 LED: The LED will indicate which source is set to display on which output

Rear Panel

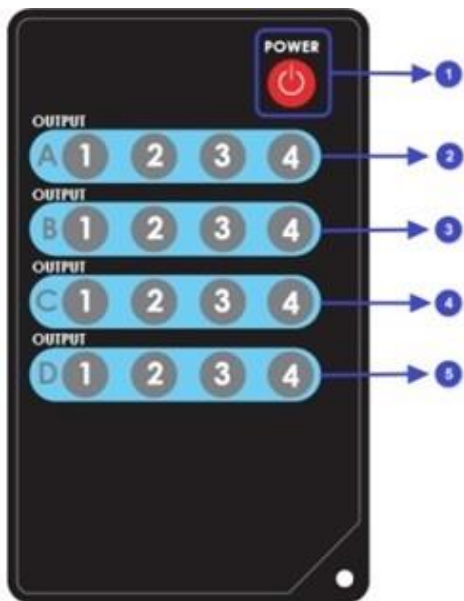


1. INPUT 1-4: Connect your HDMI sources to these input ports
2. OUTPUT A-D: Connect your HDMI displays to these output ports
3. IR IN: Connect the included IR extender cable to this port, ensuring the remote is in direct line of sight of the receiver.
4. RS232: Connect a PC or control system with a 9 pin cable to transmit RS232 commands
5. CONTROL: Connect to an active network for telnet and Web GUI control
6. SERVICE: Manufacture use only
7. POWER: Connect the supplier 24V DC power supply to this port

Remote Control

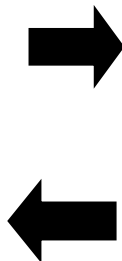
1. POWER: Press to power the Matrix or put it in stand-by
2. OUTPUT A: Press buttons 1-4 to select the input port to display on output A
3. OUTPUT B: Press buttons 1-4 to select the input port to display on output B
4. OUTPUT C: Press buttons 1-4 to select the input port to display on output C

5. OUTPUT D: Press buttons 1-4 to select the input port to display on output D



RS232 Protocols

Matrix	
PIN	Definition
1	NC
2	Tx
3	Rx
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC



Remote Controller	
PIN	Definition
1	NC
2	Rx
3	Tx
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC

Baud Rate: 115200bps
 Data bit: 8 bits
 Parity: None
 Flow Control: None
 Stop Bit: 1

Telnet and RS232 Commands

Command Name	Description	Description of Parameter
AN	Switch Output A to Input N	N=1~4
BN	Switch Output B to Input N	N=1~4
CN	Switch Output C to Input N	N=1~4
DN	Switch Output D to Input N	N=1~4
IN	Switch All Output to Input N	N=1~4
AB.....N	Switch output AB.....to input N	N=1~4
SETIP <x.x.x.x><x.x.x.x><x.x.x.x>	Setting IP, SubNet, GateWay(Static IP)	X=0~255
IPCONFIG	Display The Current IP Configuration	NONE
RSTIP	Set IP Configuration to DHCP	NONE
P0	Power Off	NONE

P1	Power On	NONE
STOREN	Store Current I/O to Position N	N=1~4
SHOWN	Show Current Port N I/O Position	N=1~4
PRESETN	Preset the store I/O Position N	N=1~4
NameN N1	Name port N as N1	N=1~4 N1=ABCDEFGH(Max Length=8)
ST	Show Unit Firmware Version	NONE
EMN	Setting EDID Mode N	N=1(Standard), 2(TV)
RS	Routing Reset to Default	NONE
USBISP	Update FW by USB	NONE
HELP(?)	Display all available commands	NONE
?	Display all available commands	NONE
QUIT	Quit Telnet	NONE

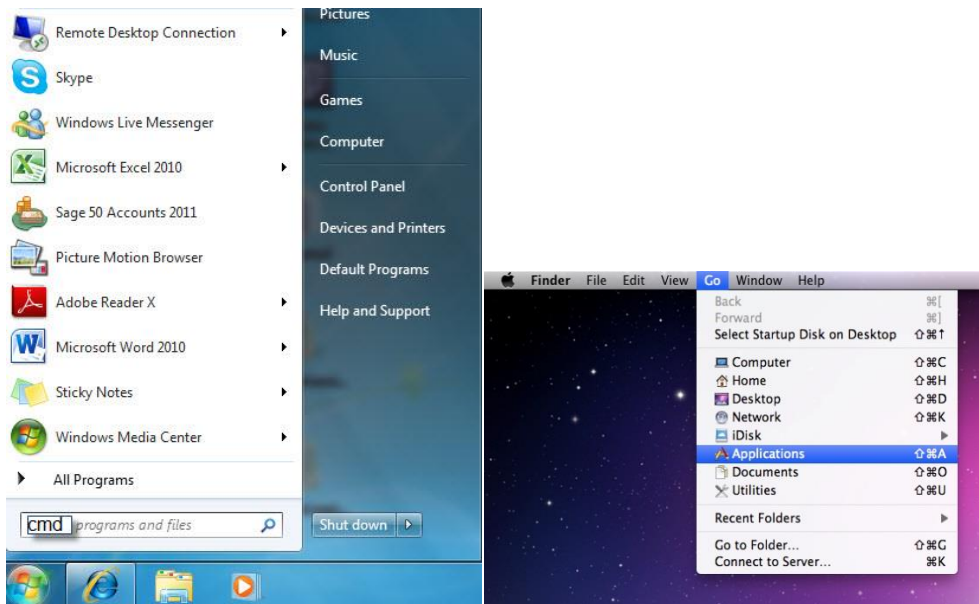
Note: All RS-232 commands will be not executed unless followed with a carriage return. All commands are case sensitive.

Telnet Control

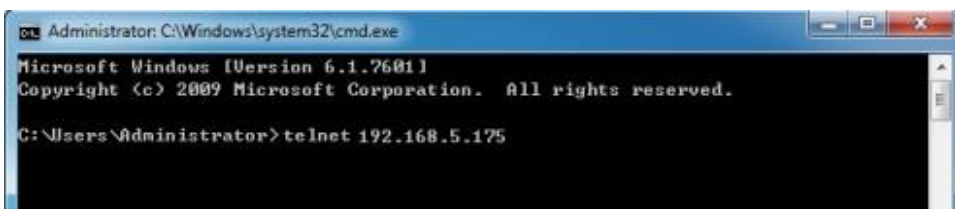
To access the telnet control in Windows 7, click on the ‘Start’ menu and type “cmd” in the Search field then press enter.

Under Windows XP go to the ‘Start’ menu and click on “Run”, type “cmd” and press enter.

Under Mac OS X, go to Go→Application→Utilities→Terminal



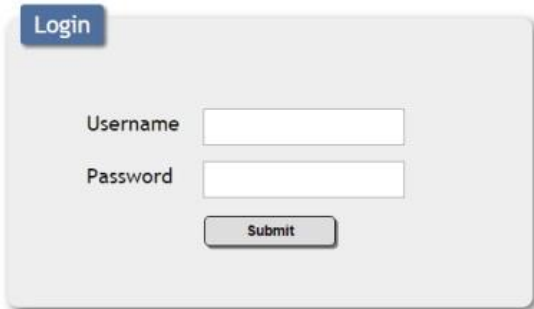
Once in the command line interface (CLI) type “telnet”, then the IP address of the unit and hit enter.



Type HELP or ? to list all the commands.

WebGUI Control

On a PC/Laptop which is connected to an active network system, open a web browser and type the device's IP address (192.168.1.50) on the web address entry bar. The browser will display the device's Switch, EDID settings and system Settings.



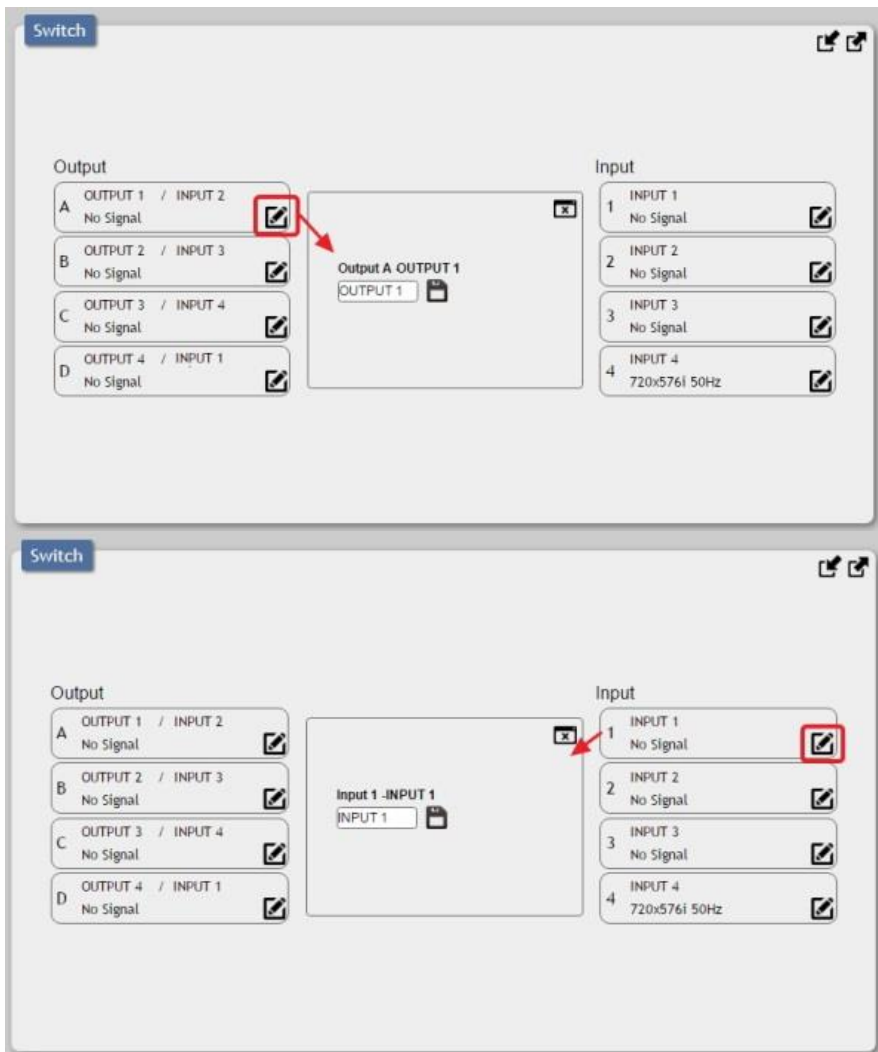
Type in the username: admin and password: admin to enter the interface. The Switch tab allows the user to edit input and output settings and allows setup or recalling presets.



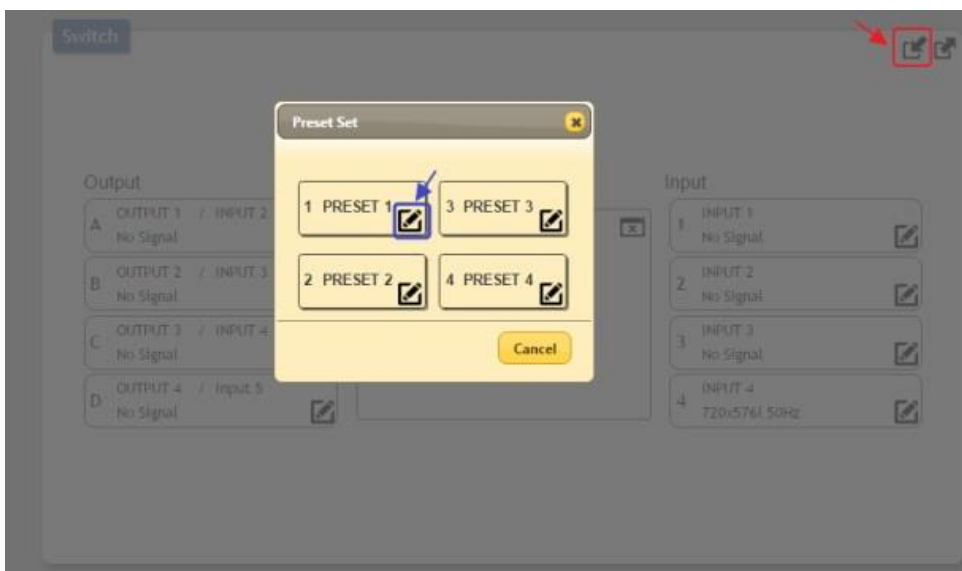
Press one or multiple output buttons then press the input button to set the input to select output.



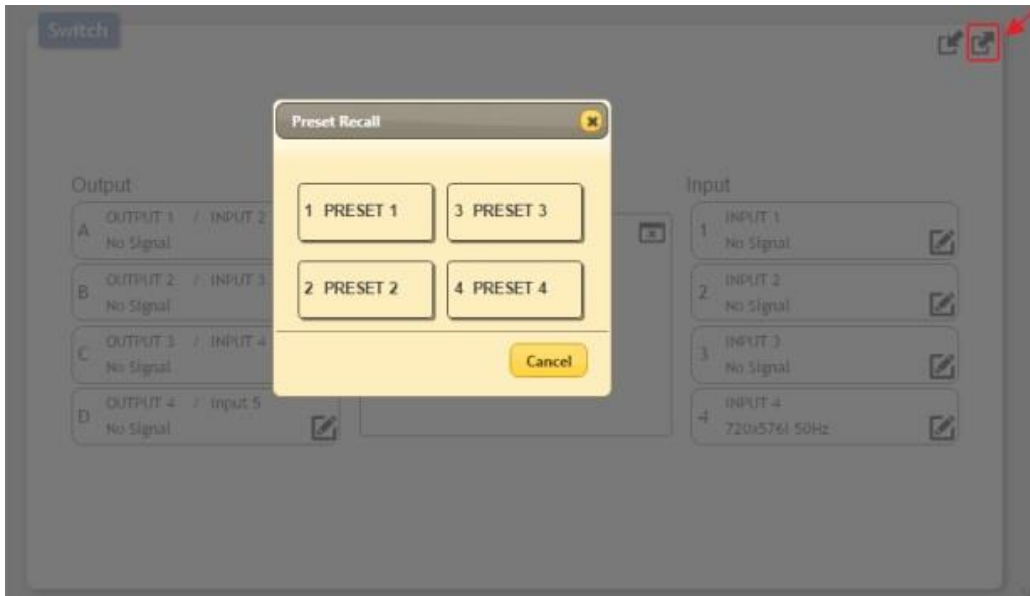
By clicking the edit button (marked in red) on each output and input you can edit the output/input name.



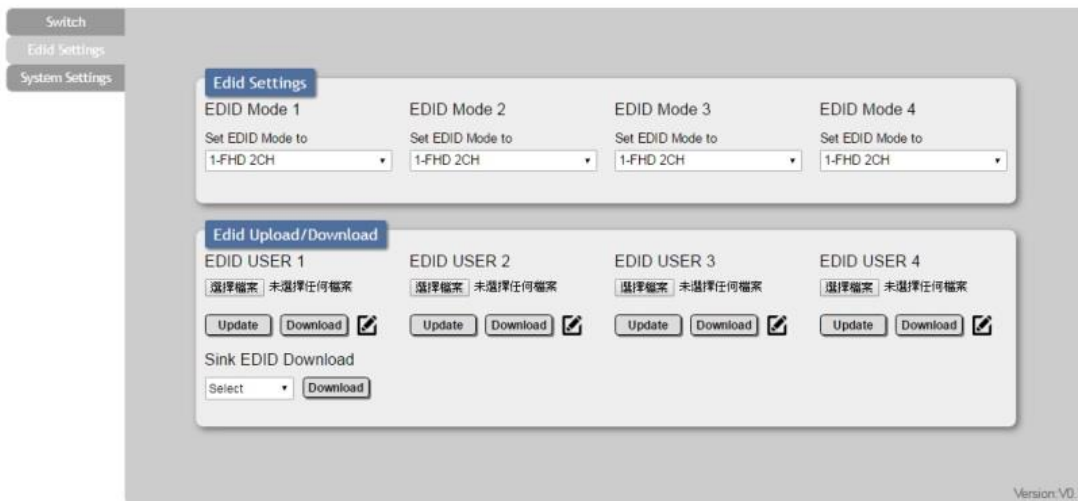
Clicking preset set button (marked in red), and click any one set could save current setting as preset set, press the edit button on preset (marked in blue) to edit preset name.



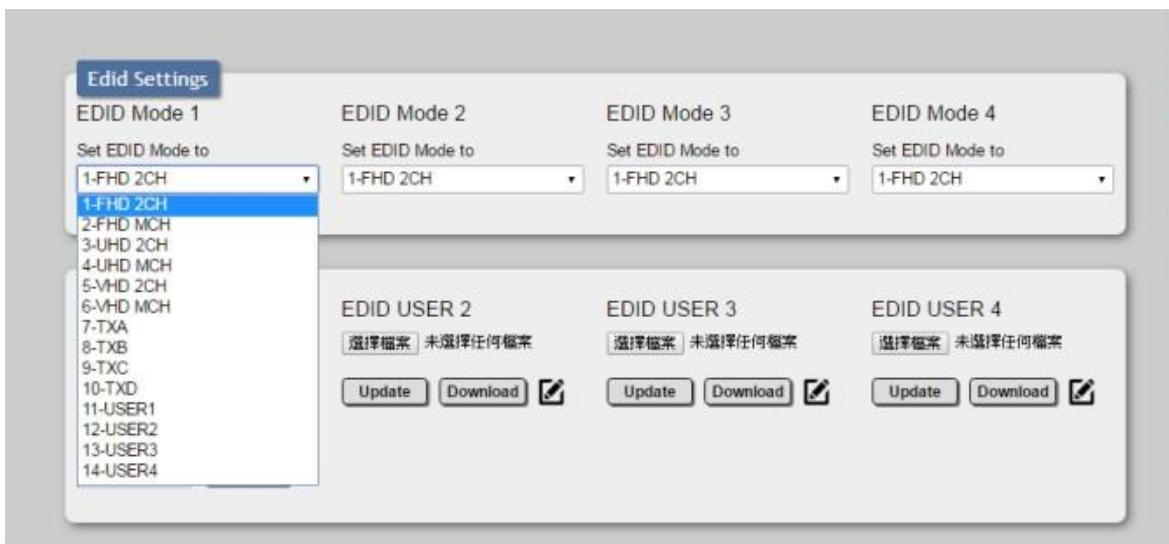
Clicking preset recall button (marked in red), and click any one set could recall pre-setting set.



On the EDID setting page, users can setup the EDID mode to upload/download custom EDID or to download EDID from sink.



EDID setting can be selected from the EDID mode list, it also allows four custom EDID bin files to be uploaded.



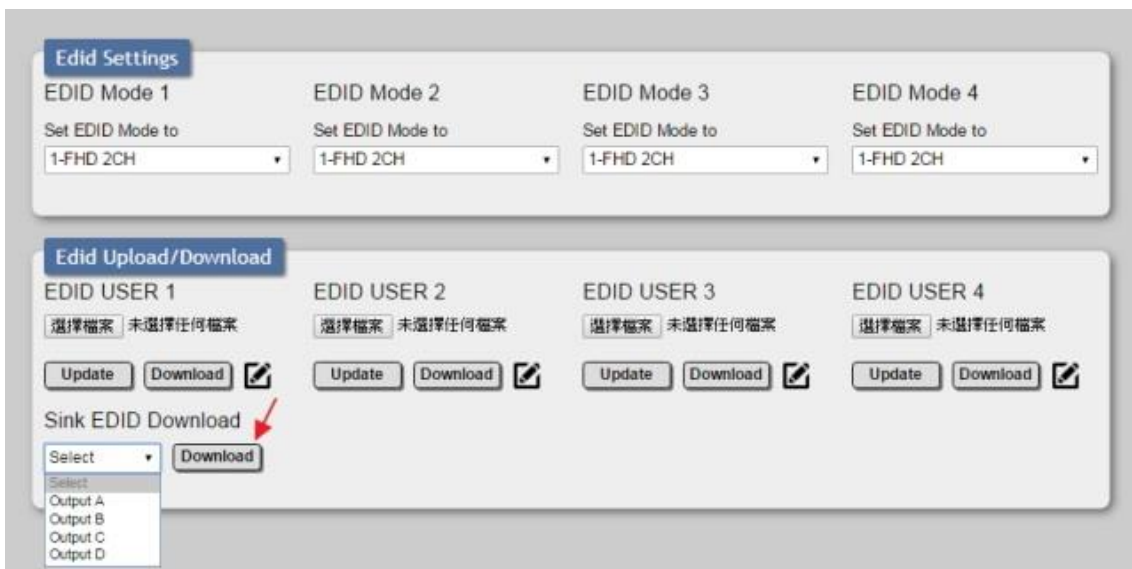
To upload a custom EDID, first click the highlighted button in red, then select the file from your PC/Laptop and click update.



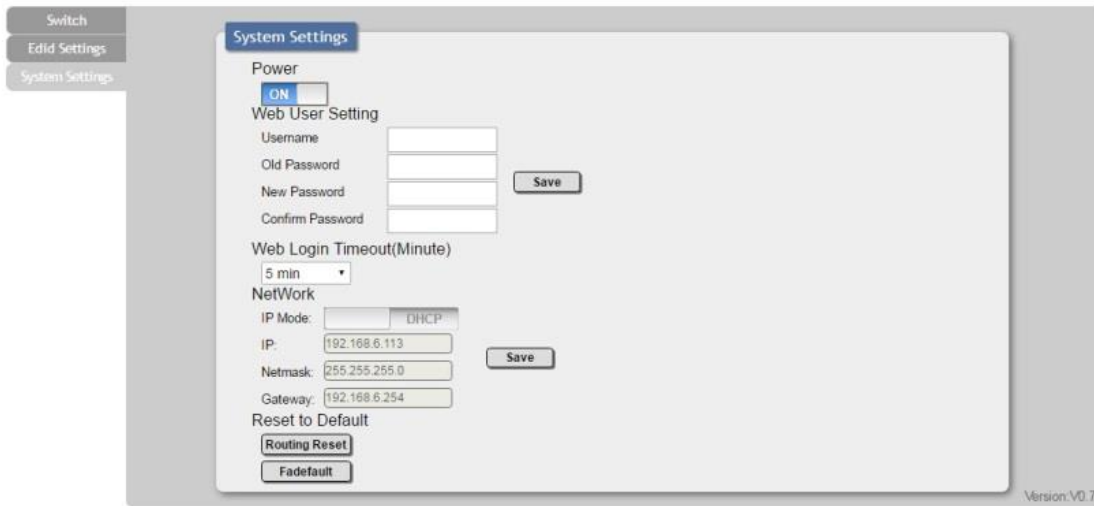
Click the edit button (marked in red) to edit the name of USER mode.



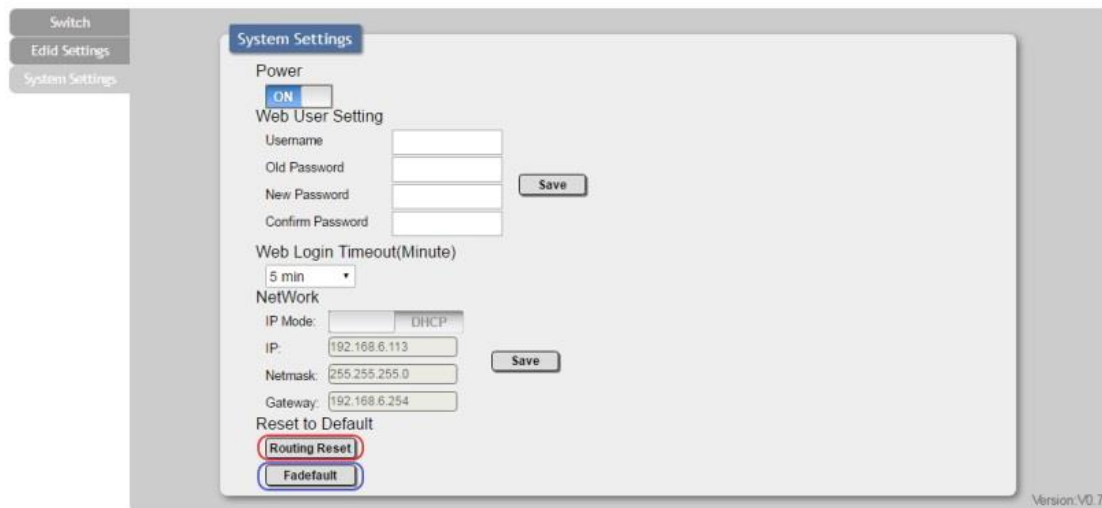
You can also select from four outputs to download EDID from sink.



System setting page allows you to power on/off, edit basic info, such as user name or password and set up WebGUI timeout and network settings.



Press Routing Reset to reset routing to default setting; press Fadefault to set to factory default.



Note: You will need to click on the save button once you are finished to save the network parameters

CE/FCC Statement

CE Certification

This equipment complies with the requirements relating to Electromagnetic Compatibility Standards. It has been manufactured under the scope of RoHS compliance.

CE Konformitätserklärung

Dieses Produkt entspricht den einschlägigen EMV Richtlinien der EU für IT-Equipment und darf nur zusammen mit abgeschirmten Kabeln verwendet werden.

Diese Geräte wurden unter Berücksichtigung der RoHS Vorgaben hergestellt.

Die formelle Konformitätserklärung können wir Ihnen auf Anforderung zur Verfügung stellen

FCC Certification

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

You are cautioned that changes or modification not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

LINDY Herstellergarantie – Hinweis für Kunden in Deutschland

LINDY gewährt für dieses Produkt über die gesetzliche Regelung in Deutschland hinaus eine zweijährige Herstellergarantie ab Kaufdatum. Die detaillierten Bedingungen dieser Garantie finden Sie auf der LINDY Website aufgelistet bei den AGBs.

Hersteller / Manufacturer (EU):

LINDY-Elektronik GmbH
Markircher Str. 20
68229 Mannheim
GERMANY
Email: info@lindy.com , T: +49 (0)621 470050

LINDY Electronics Ltd
Sadler Forster Way
Stockton-on-Tees, TS17 9JY
United Kingdom
postmaster@lindy.co.uk , T: +44 (0)1642 754000

Recycling Information



WEEE (Waste of Electrical and Electronic Equipment), Recycling of Electronic Products

Europe, United Kingdom

In 2006 the European Union introduced regulations (WEEE) for the collection and recycling of all waste electrical and electronic equipment. It is no longer allowable to simply throw away electrical and electronic equipment. Instead, these products must enter the recycling process.

Each individual EU member state has implemented the WEEE regulations into national law in slightly different ways. Please follow your national law when you want to dispose of any electrical or electronic products. More details can be obtained from your national WEEE recycling agency.

Battery Remark:

Do not put empty batteries in your domestic waste bin as they will not be recycled. Empty batteries can be returned for recycling at our trade counter or at your local household recycling centre.

The raw materials enclosed in batteries such as Zinc, Iron and Nickel can be reused to a very large proportion. The recycling of batteries and disused/obsolete electronic equipment is one of the most efficient environment protection actions you can easily take.

Germany / Deutschland

Rücknahme Elektroschrott und Batterie-Entsorgung

Die Europäische Union hat mit der WEEE Richtlinie Regelungen für die Verschrottung und das Recycling von Elektro- und Elektronikprodukten geschaffen. Diese wurden im Elektro- und Elektronikgerätegesetz – ElektroG in deutsches Recht umgesetzt. Das Entsorgen von Elektro- und Elektronikgeräten über die Hausmülltonne ist verboten! Diese Geräte müssen den Sammel- und Rückgabesystemen zugeführt werden! Dort werden sie kostenlos entgegen genommen. Die Kosten für den weiteren Recyclingprozess übernehmen die Gerätehersteller. LINDY bietet deutschen Endverbrauchern ein kostenloses Rücknahmesystem an, beachten Sie bitte, dass Batterien und Akkus den Produkten vor der Rückgabe an das Rücknahmesystem entnommen werden müssen und über die Sammel- und Rückgabesysteme für Batterien separat entsorgt werden müssen. Ausführliche Informationen zu diesen Themen finden Sie stets aktuell auf der LINDY Webseite im Fußbereich.

France

En 2006, l'union Européenne a introduit la nouvelle réglementation (DEEE) pour le recyclage de tout équipement électrique et électronique.

Chaque Etat membre de l' Union Européenne a mis en application la nouvelle réglementation DEEE de manières légèrement différentes. Veuillez suivre le décret d'application correspondant à l'élimination des déchets électriques ou électroniques de votre pays.

Remarque sur les piles et batteries

En tant que consommateur final, vous êtes tenus de restituer toutes les piles et batteries usagées. Il est clairement interdit de les jeter avec les ordures ménagères ! Les piles et batteries contenant des substances nocives sont marquées par le symbole ci-dessus. Vous pouvez déposer gratuitement vos piles ou batteries usagées dans les centres de collecte de votre commune, dans nos succursales ou dans tous les points de vente de piles ou batteries. Vous respecterez ainsi la loi et contribuerez à la protection de l'environnement !

Italy

Nel 2006 l'unione europea ha introdotto regolamentazioni (WEEE) per la raccolta e il riciclo di apparecchi elettrici ed elettronici. Non è più consentito semplicemente gettare queste apparecchiature, devono essere riciclate. Ogni stato membro dell' EU ha tramutato le direttive WEEE in leggi statali in varie misure. Fare riferimento alle leggi del proprio Stato quando si dispone di un apparecchio elettrico o elettronico.

Per ulteriori dettagli fare riferimento alla direttiva WEEE sul riciclaggio del proprio Stato.

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