



CDPW-K1

15-Button Wall Plate Control Keypad



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
VR0	26/08/15	Preliminary release
VR1	31/03/16	Add Macro Features



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1. INTRODUCTION

The Wall-Plate Control System box is a fantastic and useful design for system installer and smart home user. With 15 direct macro buttons and extra 15 macro in WebGUI control which allows up to 16 commands to be execute, within one push and a total of 128 commands capacity inside this box that can bring out a set of scenes in a seconds. Soft and colorful LED design fitting all environment purpose and PoE (Power over Ethernet) function ease power supply issue without extra DC power burden. Further, relay outputs design and scheduling function control settings can trigger master switch or any main switch of the installation environment that brings the world of control to whole.

2. APPLICATIONS

- Smart Home Installation
- Control Center
- Functional Room
- Show Room
- Ballroom

3. PACKAGE CONTENTS

- 1×Wall Plate Control Keypad
- 1×USB Type A to Mini USB OTG Connector
- 2×3.5mm Terminal Block Pitch
- 1×5V/2.6A DC Power Adaptor
- 1×Button Stickers (60pcs)
- 1×Operation Manual

4. SYSTEM REQUIREMENTS

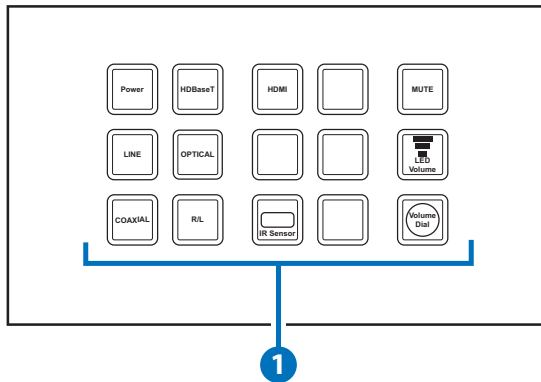
Active internet connection from Hub or Router and output to DC controllable device.

5. FEATURES

- 30 macro buttons with up to 128 commands to implant for control system
- Supports Relays to control on/off of other devices
- Supports Scheduling control system and settings
- Supports Schedule memory over power blackout up to 48 hrs
- Supports daylight saving timing system
- Supports Key Pad, Telnet and WebGUI controls
- Supports PoE function or DC power supply selection
- UK 2 Gang wall plate design with adjustable LED dim light
- Multiple uses for home, hotel room central control or conference room and etc.

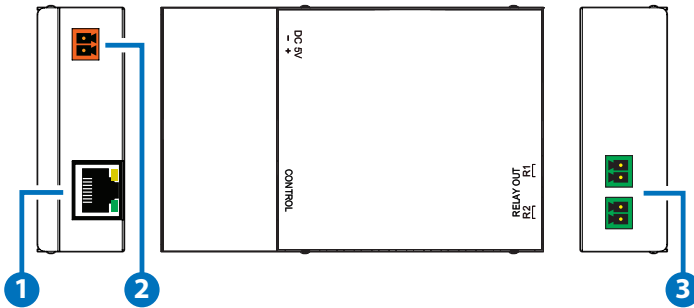
6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel



- 1 Macro Buttons 1~15:** Each buttons has 2 colors of LEDs adjustable from dim 0~100% and can be insert up to 16 commands. (Further detail settings please refers to section 6.7 WebGUI Control.)

6.2 Rear Panel



- 1 IP Control:** Connect from PC/Laptop with active internet service or Telnet or WebGUI control with RJ-45 terminated cable. This slots supports PoE PD 48V function which means when the connected server/Hub support PSE 48V it can be powered without DC supply connection.
- 2 DC 5V:** Plug the 5V DC power adaptor included in the package and connect to AC wall outlet for power supply.
- 3 RELAY OUT:** Connect with device that supports DC 0~24V/5A power or signal that supports relay function.

6.3 Telnet Commands

COMMAND	DESCRIPTION	PARAMETER
IPCONFIG	<i>Display the current IP configure</i>	NONE
SETIP N, N1,N2	<i>Set Ethernet IP, net mask and gateway address</i>	N=IP XXX.XXX.XXX.XXX(0~255) N1= net mask XXX.XXX.XXX.XXX(0~255) N2= gateway XXX.XXX.XXX.XXX(0~255)
SIPADDR XXX. XXX.XXX.XXX	<i>Set ethernet IP address</i>	XXX=0~255
SNETMASK XXX. XXX.XXX.XXX	<i>Set Ethernet net mask</i>	XXX=0~255
SGATEWAY XXX. XXX.XXX.XXX	<i>Set Ethernet gateway</i>	XXX=0~255
SIPMODE N	<i>Set Ethernet IP Mode</i>	N=STATIC/DHCP
VER	<i>Show unit firmware version</i>	NONE
FADEFAULT	<i>All configure set to factory default</i>	NONE
ETH_FADEFAULT	<i>All Ethernet configure set to factory*</i>	NONE
REBOOT	<i>System reboot</i>	NONE
HELP (?)	<i>Show command list</i>	NONE
HELP N	<i>Show descript of command</i>	N=COMMAND NAME
RELAY N N1	<i>Relay control</i>	N (PORT)=1 or 2 N1=OPEN/CLOSE/ TOGGLE

COMMAND	DESCRIPTION	PARAMETER
LEDBLUE N N1	<i>Led blue backlight control</i>	N (LED NO.)=1~15 N1=% (0-100)
LEDRED N N1	<i>Led red backlight control</i>	N (LED NO.)=1~15 N1=% (0-100)
LEDBLUES N	<i>All blue led backlight control</i>	N=% (0-100)
LEDREDS N	<i>All red led backlight control</i>	N=% (0-100)
LEDSHOW N	<i>Led dimming mode control</i>	LEDSHOW N N=ON/OFF/TOGGLE
BACKLIGHT N	<i>All led backlight control</i>	N=% (0-100)
KEY_PRESS N RELEASE KEY_PRESS N HOLD	<i>Key press trigger type</i>	KEY_PRESS N RELEASE (Default) N=KEY NUMBER KEY_PRESS N HOLD N=PORT NUMBER
MACRO RUN N MACRO STOP MACRO STOP N	<i>Macro control</i>	MACRO RUN N N=MACRO ID (1~15) MACRO STOP (Stop All) MACRO STOP N N=MACRO ID (1~30)

Note:

1. Any commands will not be executed unless followed by a carriage return. Commands are case-insensitive.
2. *Command reset IP address back to factory default only.

6.4 Software Application

Please download the software from www.cypress.com.tw with file name CDPS V2.000 and save it in a directory where you may use it later.

Note: The default setting of the IP address is 192.168.1.50

Connect the Control System with PC/Laptop through the Ethernet port through an active network system and open the CDPS V2.000 application. Click on Find Devices on Network and a list of the devices connected to the Control System will show up.

Find Devices on Network				
Product Name	Description	IP Address	MAC Address	

Then user may use the IP Address to find the control device through Telnet or WebGUI tools.

MAC Address	F8:22:85:00:40:19
IP Address	192.168.1.50
Subnet Mask	255.255.255.0
Gateway IP	192.168.1.254
DNS	0.0.0.0
IP Mode	Static
Web GUI Port	80
Telnet Port	23
S / N	SN:2236
Firmware Version	v1.
Hardware Version	v1.00

6.5 Telnet Control

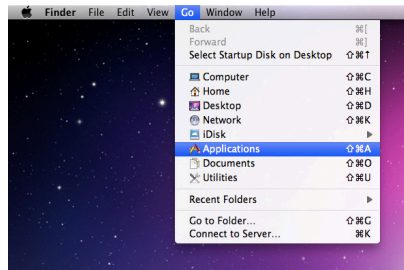
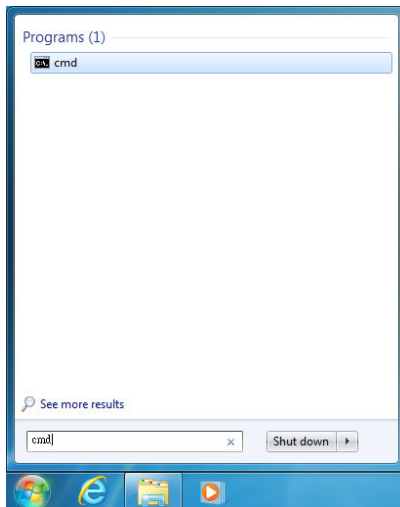
Before attempting to use the Telnet control, please ensure that both the Wall Plate Control Keypad (via the 'LAN/CONTROL' port) and the PC/Laptop are connected to the same active networks.

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" with then press enter.

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

See below for reference.



Once in the command line interface (CLI) type "telnet", then the IP address of the unit and "23", then hit enter.

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>telnet 192.168.XX.XX 23
```

This will bring us into the unit which we wish to control. Type "help" to list the available commands.

```

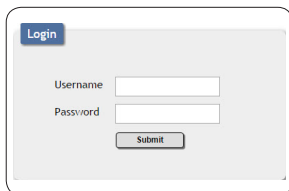
Welcome to TELNET.
>?
HELP          : SHOW DESCRIPT OF COMMAND
               : USE <HELP N, N=COMMAND NAME> TO SHOW DESCRIPT OF COMMAND
?             : SHOW DESCRIPT OF COMMAND
               : USE <? N, N=COMMAND NAME> TO SHOW DESCRIPT OF COMMAND
IPCONFIG      : DISPLAY THE CURRENT IPCONFIG
SETIP         : SET ETHERNET IP, NETMASK AND GATEWAY ADDRESS
SIPADDR      : SET ETHERNET IP ADDRESS
SNETMASK     : SET ETHERNET NETMASK
SGATEWAY     : SET ETHERNET GATEWAY
SIPMODE      : SET ETHERNET IP MODE
UER          : SHOW UNIT FIRMWARE VERSION
FADEFAULT    : ALL CONFIGURE SET TO FACTORY DEFAULT
ETH_FADEFAULT : ALL ETHERNET CONFIGURE SET TO FACTORY DEFAULT
REBOOT       : SYSTEM REBOOT
LEDBLUES     : ALL BLUE LED BACKLIGHT CONTROL
LEDRS        : ALL RED LED BACKLIGHT CONTROL
LEDBLUE      : LED BLUE BACKLIGHT CONTROL
LEDRED       : LED RED BACKLIGHT CONTROL
RELAY        : RELAY CONTROL
KEY_PRESS    : KEY PRESS TRIGGER TYPE
MACRO        : MACRO CONTROL
BACKLIGHT    : ALL LED BACKLIGHT CONTROL
LEDSHOW      : LED DIMMING MODE CONTROL
TELNET_TIMEOUT : SET TELNET TIME OUT ON/OFF
DEVICE       : Device setting
  
```

Note: Commands will not be executed unless followed by a carriage return. Commands are case-insensitive. If the IP is changed then the IP Address required for Telnet access will also change accordingly.

6.6 WebGUI Control

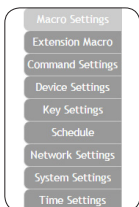
On a PC/Laptop that is connected to an active network system, open a web browser and type device's IP address on the web address entry bar. A security page will appear to ask for User and Password, please key in "Admin" for both and click Submit to enter.

Note: The Default IP setting is on Static with address at 192.168.1.50

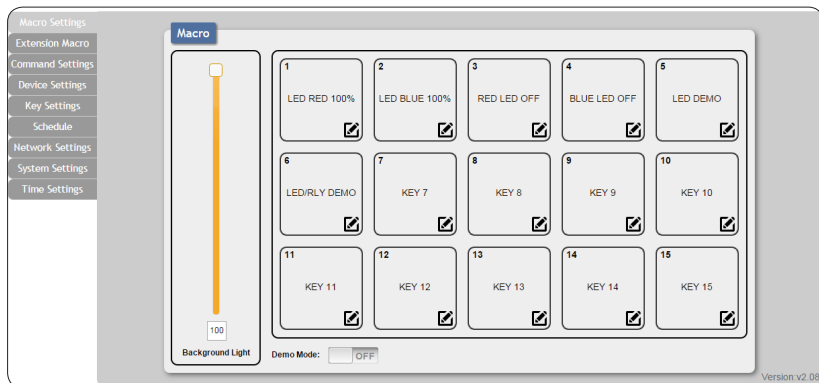


A screenshot of the login page. It features a blue 'Login' button at the top left. Below it are two input fields: 'Username' and 'Password'. At the bottom is a 'Submit' button.

The browser will display the device's Macro Settings, Extension Macro, Command Settings, Schedule, Network Settings, System Settings and Time Settings pages for users to control.



The Background Light bar allows user with instant change on the LEDs lighting percentage base on the original illuminate setting.

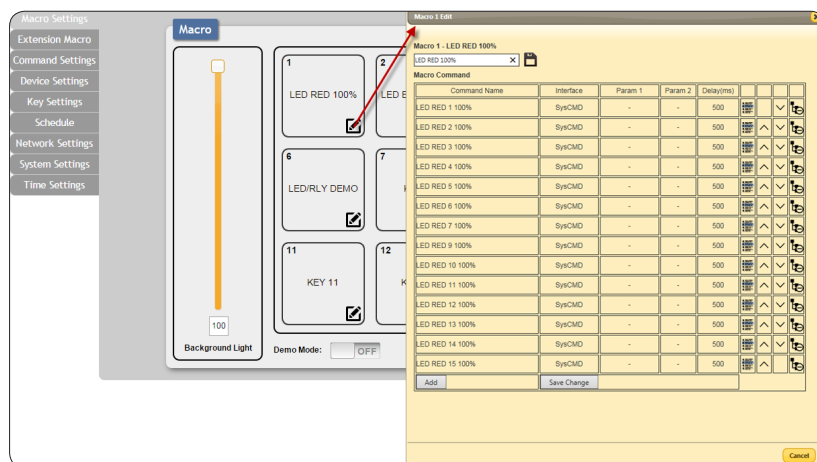


There are 6 Macro inserted as default setting for testing the Wall-Plate Control System's functionality. Click on Macro 1~6 to demonstrate the function of lighting LEDs.

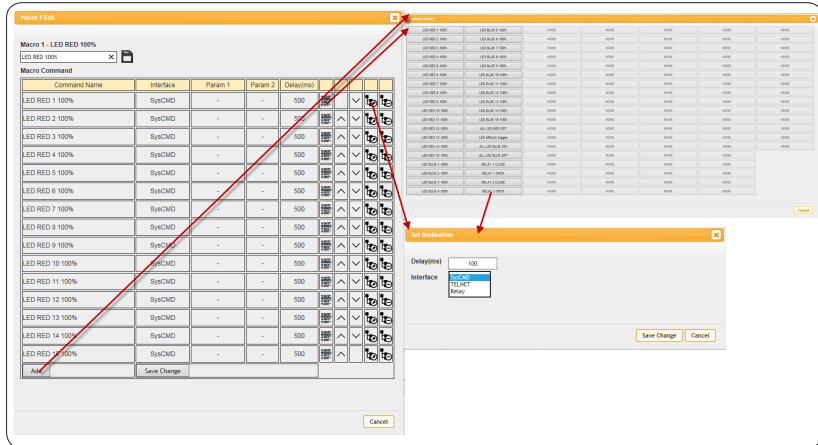
- Macro 1: Light up the Red backlight LED with 100% brightness sequentially from 1~15 with every 500ms
- Macro 2: Light up the Blue backlight LED with 100% brightness sequentially from 1~15 with every 500ms
- Macro 3: Switch off all the red backlight LED with 0% brightness
- Macro 4: Switch off all the blue backlight LED with 0% brightness
- Macro 5: LED show mode toggle, switch off Demo Mode
- Macro 6: Light up the Blue backlight LED with 10% brightness, Switch off all the blue backlight LED with 0% brightness, switch Off & On Relay 1 and switch Off & On Relay 2 with delay of 1000ms

To disable default testing mode, click on Demo Mode/Macro 5 to switch it off.

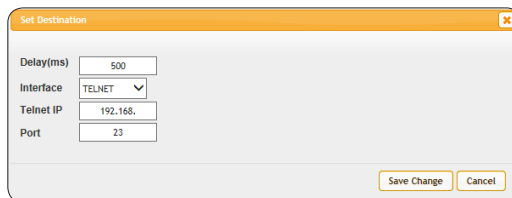
Click on the mark to edit the command settings. Up/down arrows are to move the command up or down and button is to delete the command.



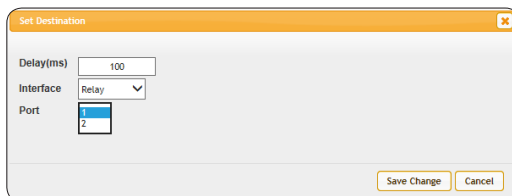
Click on Insert button to insert commands. Command can be set to control the Wall-Plate Control Box/SysCMD, other devices connected within the same Telnet system/Internet area and Relay devices connected through the Relay outputs of Wall-plate Control Box with delay time setting. It is suggest to set the delay time >100ms once the setting is confirmed double click on Save Change.



Command set to control the devices within the same telnet system or internet area require to set its IP and Port number and it is strongly recommend to set the delay time >500ms in order to secure a successful command sending. Once the setting is done click on Save Changes.



Command set to control the Relay devices require to set the Port number. Click on Save Change to confirm the setting.

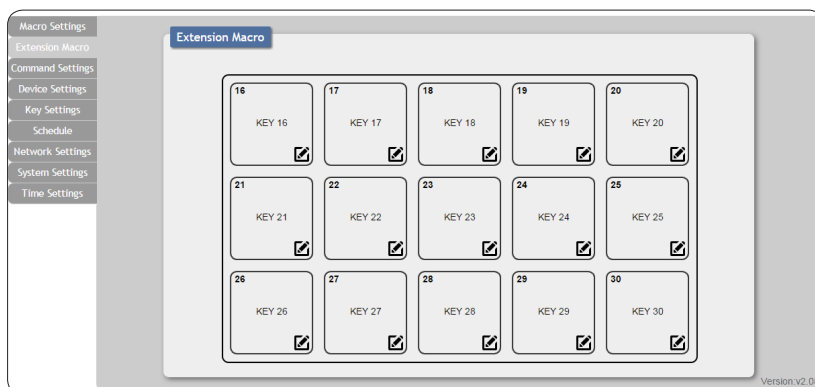


The 'Set Destination' dialog box contains the following fields:

- Delay(ms)**: A text input field with the value '100'.
- Interface**: A dropdown menu with 'Relay' selected.
- Port**: A list box with '1' and '2' as options; '1' is currently selected.

At the bottom right, there are two buttons: 'Save Change' and 'Cancel'.

Click on 'Extension Macro' to execute/edit more Macro action up to 15 more.



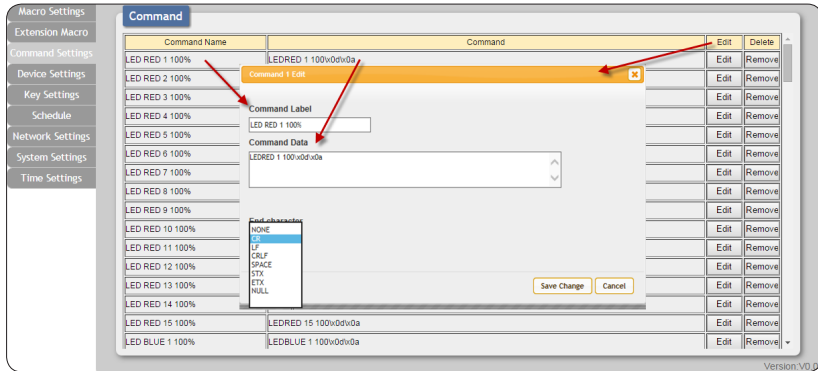
The 'Extension Macro' screen features a sidebar on the left with the following menu items: Macro Settings, Extension Macro (highlighted), Command Settings, Device Settings, Key Settings, Schedule, Network Settings, System Settings, and Time Settings.

The main area, titled 'Extension Macro', displays a 3x5 grid of 15 key configuration slots, numbered 16 to 30. Each slot contains a label (e.g., 'KEY 16') and a small icon with a checkmark.

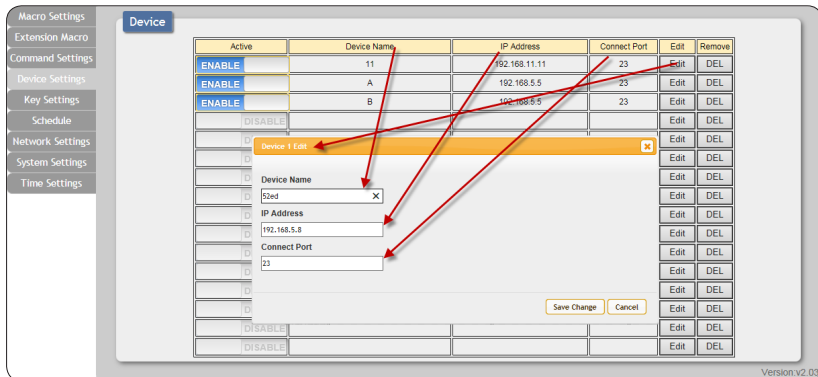
Version v2.08

Click on 'Command Settings' to insert new commands or delete commands and Label the command with end character.

Command under 128 characters including space can be build up to 128 commands, command over 128 characters and under 512 characters including space can be build up to 32 command in addition with 96 commands of 128 characters under. Click on Save Change to save the command inserted.



Click on 'Device Settings' to enable or disable the selected device settings with up to 16 sets available. Device naming up to 24 characters include space, IP address and Connection port re-assignable. This setting will be linked directly to the command list and the command setting under Macro Settings.

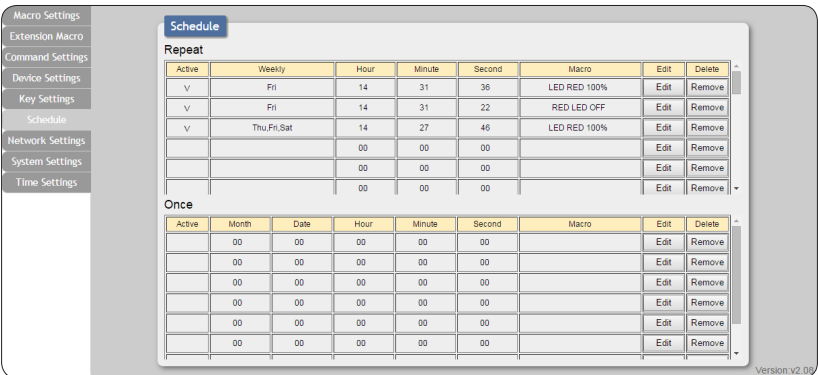


Click on Key Settings to enable and disable Repeat and or Toggle mode on Macro buttons.

Enable Repeat Mode will allow action(s) to be executed repeatedly when Macro button is pressed and held on. Upon button releasing action will be terminated. This function works on Macro 1~15 only. Each Macro can contain up to 16 actions. Enable Toggle mode will combine both Macro button and Extension Macro into one. When Macro button is pressed only one part of Macro will be executed at a time.



Click on 'Schedule' to set the executing time schedule of the Macro(s).
Note: The scheduling system supports up to 48hrs of memory under power blackout; after that, the system will reset the time automatically back to 2015/01/01 00:00:00.



Click on Edit from Repeat column to set the macro command(s) to be activated repeatedly on a set time.

Schedule - Repeat 1 Edit

Active

ACTIVE

Weekly

☐ Mon
 ☐ Tue
 ☐ Wed
 ☐ Thu
 ☐ Fri
 ☐ Sat
 ☐ Sun

Time

00:00:00

Macro/Extension Macro

NONE

Choose Time

Time

00:00:00

Hour

-

+

Minute

-

+

Second

-

+

Now

Done

Cancel

Macro/Extension Macro Select

Macro

Macro 1 - LED RED 100%	Macro 2 - LED BLUE 100%	Macro 3 - RED LED OFF
Macro 4 - BLUE LED OFF	Macro 5 - LED/RLY DEMO	Macro 6 - KEY 6
Macro 7 - KEY 7	Macro 8 - KEY 8	Macro 9 - KEY 9
Macro 10 - KEY 10	Macro 11 - KEY 11	Macro 12 - KEY 12
Macro 13 - KEY 13	Macro 14 - KEY 14	Macro 15 - KEY 15

Extension Macro

Extension Macro 16 - KEY 16	Extension Macro 17 - KEY 17	Extension Macro 18 - KEY 18
Extension Macro 19 - KEY 19	Extension Macro 20 - KEY 20	Extension Macro 21 - KEY 21
Extension Macro 22 - KEY 22	Extension Macro 23 - KEY 23	Extension Macro 24 - KEY 24
Extension Macro 25 - KEY 25	Extension Macro 26 - KEY 26	Extension Macro 27 - KEY 27
Extension Macro 28 - KEY 28	Extension Macro 29 - KEY 29	Extension Macro 30 - KEY 30

Cancel

Click on Edit from Once column to set the macro command(s) to be activated on a set time only.

Schedule - Once 1 Edit

Active

ACTIVE

Date & Time

00-00 00:00:00

Macro/Extension Macro

NONE

April 2015

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Time 00:00:00

Hour -

Minute -

Second -

Save Change Cancel

Now Done

Macro/Extension Macro Select

Macro

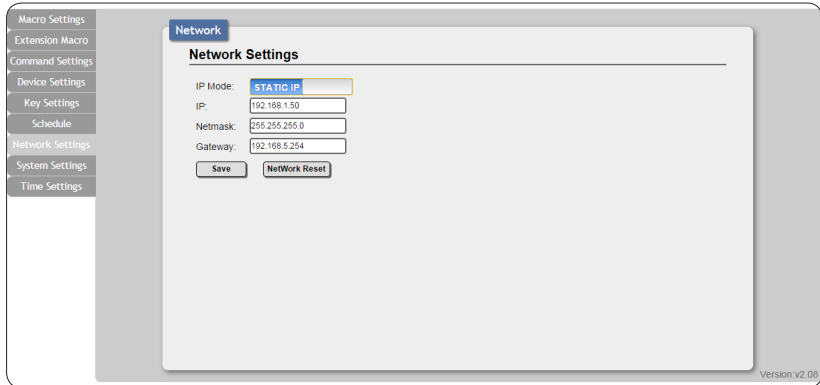
Macro 1 - LED RED 100%	Macro 2 - LED BLUE 100%	Macro 3 - RED LED OFF
Macro 4 - BLUE LED OFF	Macro 5 - LED/RLY DEMO	Macro 6 - KEY 6
Macro 7 - KEY 7	Macro 8 - KEY 8	Macro 9 - KEY 9
Macro 10 - KEY 10	Macro 11 - KEY 11	Macro 12 - KEY 12
Macro 13 - KEY 13	Macro 14 - KEY 14	Macro 15 - KEY 15

Extension Macro

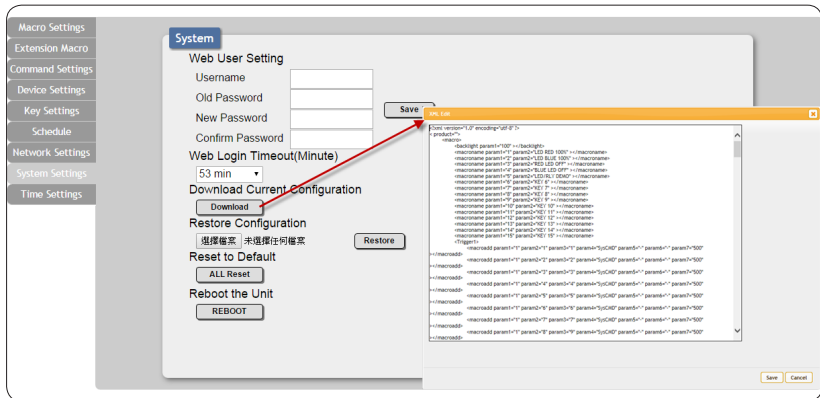
Extension Macro 16 - KEY 16	Extension Macro 17 - KEY 17	Extension Macro 18 - KEY 18
Extension Macro 19 - KEY 19	Extension Macro 20 - KEY 20	Extension Macro 21 - KEY 21
Extension Macro 22 - KEY 22	Extension Macro 23 - KEY 23	Extension Macro 24 - KEY 24
Extension Macro 25 - KEY 25	Extension Macro 26 - KEY 26	Extension Macro 27 - KEY 27
Extension Macro 28 - KEY 28	Extension Macro 29 - KEY 29	Extension Macro 30 - KEY 30

Cancel

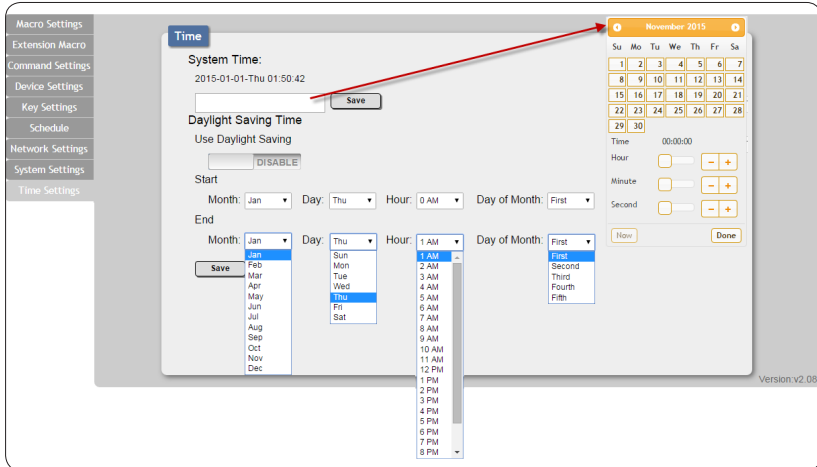
Click on 'Network Settings' to reset the IP, Netmask or Gateway address.



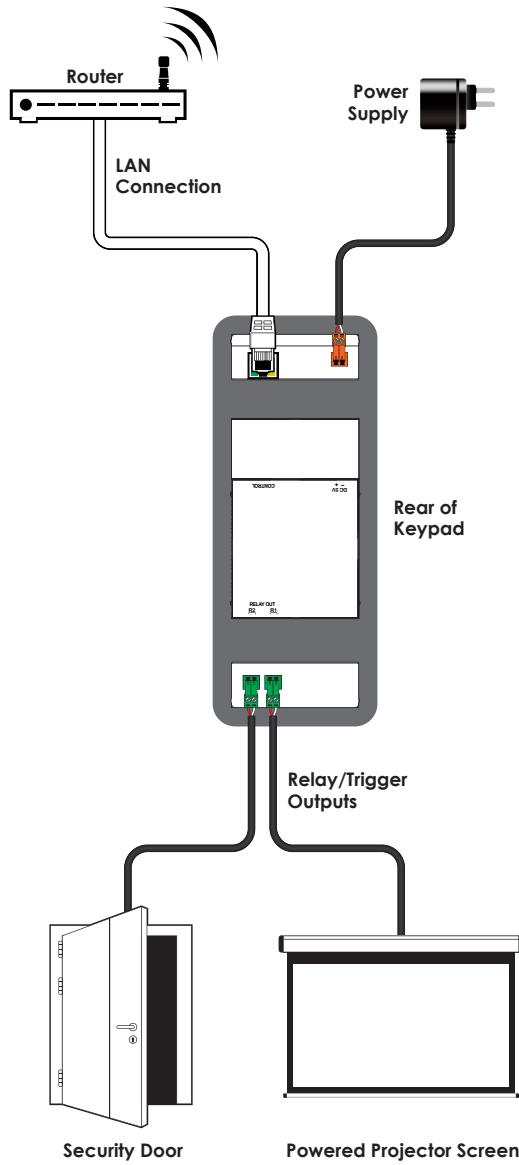
Click on 'System Settings' to reset the WebGUI login password and timeout setting and save or download the Macro settings. Reset to Default allows IP and login ID & password to be reset back to factory default.



Click on 'Time Settings' to set the system time and to enable/disable Daylight Saving Time(DST) function. Simply click on the white column and a calendar will appear for your selection with current timing setting. Another simple few clicks to enable/disable DST with its start and end time.



7. CONNECTION DIAGRAM



8. SPECIFICATIONS

Input Ports	15×Buttons, 1×IP Control (Terminal Block)
Output Ports	2×Relay (Terminal Block)
Power Supply	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human body model: ±8 kV (air-gap discharge) ±6 kV (contact discharge)
Dimensions	148.5mm (W)×87mm (D)×28mm (H) /Jacks Excluded 148.5 mm (W)×87 mm (D)×30 mm (H) /Jacks Included
Weight	226 g
Chassis Material	Metal
Color	White
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 (non-condensing)
Power Consumption	3.7 W

9. ACRONYMS

ACRONYM	COMPLETE TERM
CLI	Command Line Interface
GUI	Graphical User Interface
IP	Internet Protocol
LAN	Local Area Network
PoE	Power over Ethernet
USB	Universal Serial Bus



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