CR-KP1

15-Button Wall Plate Control Keypad

Operation Manual

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
RDV3	12/01/16	Revised Telnet Command, Add hot key and IP reset, PC application software

CONTENTS

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

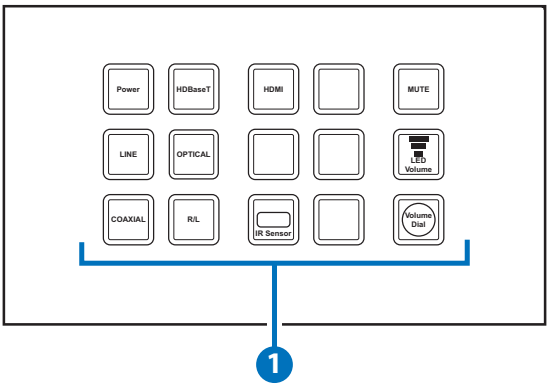
Active internet connection from Hub or Router and output to DC controllable device.

5. FEATURES

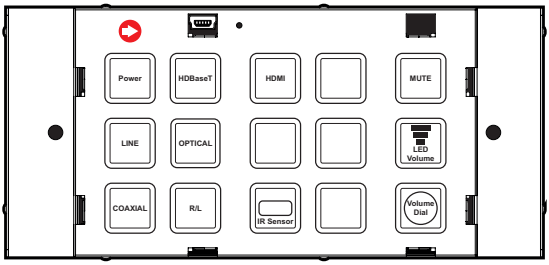
- 30 macro buttons with up to 128 commands to implant for control system
- Supports Relays to control on/off of other devices
- Supports Scheduling control system and settings
- Supports Schedule memory over power blackout up to 48 hrs
- Supports daylight saving timing system
- Supports Key Pad, Telnet 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 and Key sequence

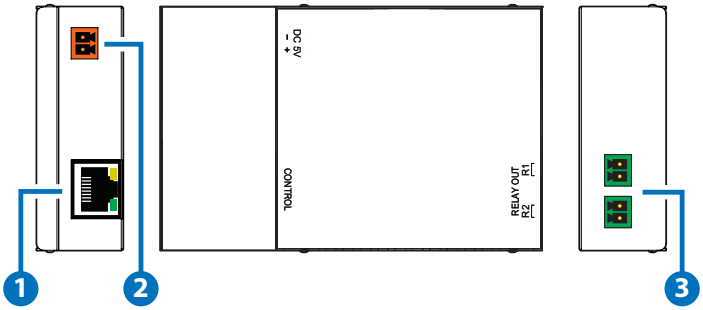


1 Macro Buttons 1~15: Each buttons has 2 colors of LEDs adjustable from dim 0~100% and can be insert up to 16 commands. (Further detail settings please refers to section 6.7 WebGUI Control.)



When remove front plate, there is arrow sticker to point out the place of first key. The sequence of key number increase is follow arrow direction.

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/8A power or signal that supports relay function.

6.3 Telnet Commands

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

COMMAND	DESCRIPTION	PARAMETER
RELAY N N1	*Relay control*	N =PORT(1~2) N1=OPEN/CLOSE/ TOGGLE
LEDBLUE N N1	*Led blue backlight control*	N = LED NO.(1~15) N1=% (0-100)
LEDRED N N1	*Led red backlight control*	N = LED NO.(1~15) N1=% (0-100)
LEDBLUES N	*All blue led backlight control*	N=% (0-100)
LEDREDS N	*All red led backlight control*	N=% (0-100)
LEDSHOW N	*Led dimming mode control*	LEDSHOW N N=ON/OFF/TOGGLE
BACKLIGHT N	*All led backlight control*	N=% (0-100)
KEY_PRESS N RELEASE **KEY_PRESS N HOLD**	*Key press trigger type*	KEY_PRESS N RELEASE (Default) N=KEY NUMBER KEY_PRESS N HOLD N=KEY NUMBER
MACRO RUN N **MACRO STOP** **MACRO STOP N**	*Macro control*	MACRO RUN N N=MACRO ID (1~30) MACRO STOP (Stop All) MACRO STOP N N=MACRO ID (1~30)

Note:

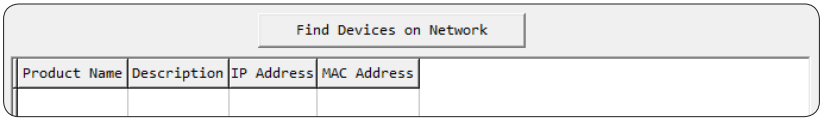
1. *Any commands will not be executed unless followed by a carriage return. Commands are case-insensitive.*
2. **Command reset IP address back to factory default only.*

6.4 Software Application

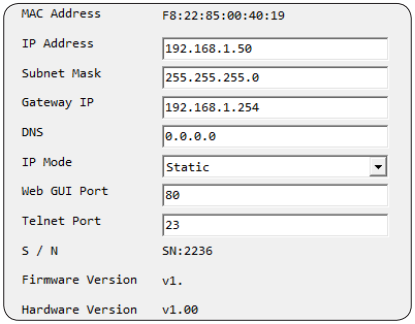
Please download the software from www.cypress.com.tw with file name CDPS V2.000 and save it in a directory where you may use it later.

Note: The default setting of the IP address is DHCP mode.

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.



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



6.5 Telnet Control

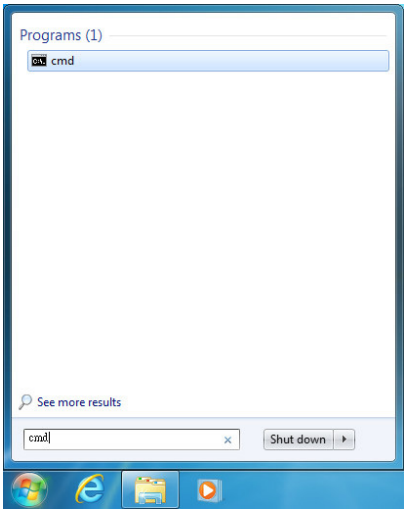
Before attempting to use the Telnet control, please ensure that both the Wall Plate (via the 'LAN/CONTROL' port) and the PC/Laptop are connected to the same active networks.

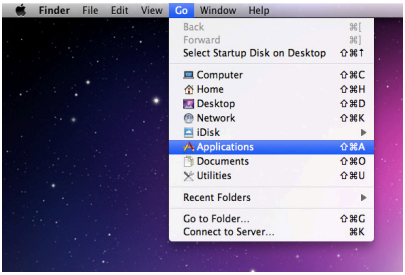
To access the Telnet control in Windows 7, click on the 'Start' menu and type "cmd" in the Search field then press enter.

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.

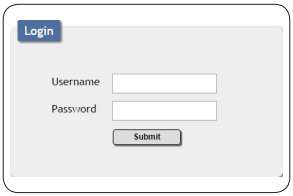
```
Welcome to TELNET.
>help
HELP            : SHOW DESCRIPT OF COMMAND
                  USE <HELP N, N=COMMAND NAME> TO SHOW DESCRIPT OF COMMAND
?               : SHOW DESCRIPT OF COMMAND
                  USE <? N, N=COMMAND NAME> TO SHOW DESCRIPT OF COMMAND
IPCONFIG        : DISPLAY THE CURRENT IPCONFIG
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
VER             : SHOW UNIT FIRMWARE VERSION
FADEFAULT       : ALL CONFIGURE SET TO FACTORY DEFAULT
ETH_FADEFAULT   : ALL ETHERNET CONFIGURE SET TO FACTORY DEFAULT
REBOOT          : SYSTEM REBOOT
RELAY           : RELAY CONTROL
LEDBLUE         : LED BLUE BACKLIGHT CONTROL
LEDRED          : LED RED BACKLIGHT CONTROL
KEY_PRESS       : KEY PRESS TRIGGER TYPE
MACRO           : MACRO SETTING
LEDBLUES        : ALL BLUE LED BACKLIGHT CONTROL
LEDREDS         : ALL RED LED BACKLIGHT CONTROL
BACKLIGHT       : ALL LED BACKLIGHT CONTROL
LEDSHOW         : LED DIMMING MODE CONTROL
TELNET_TIMEOUT  : SET TELNET TIME OUT ON/OFF
```

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.

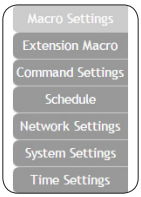
6.6 WebGUI Control

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.

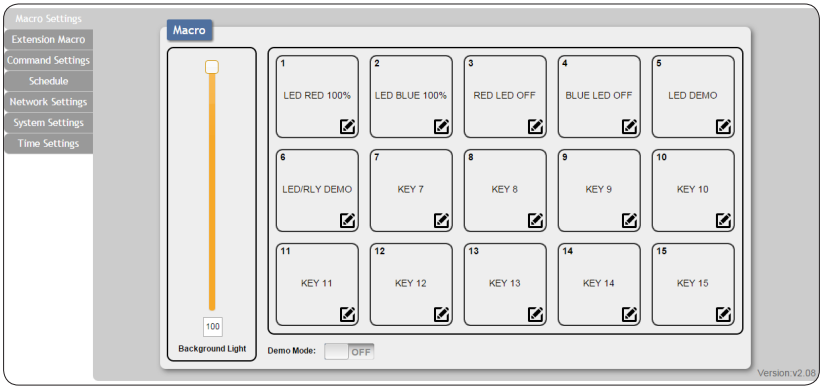
Note: The default setting of the IP address is DHCP mode.



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 orignial illuminate setting.

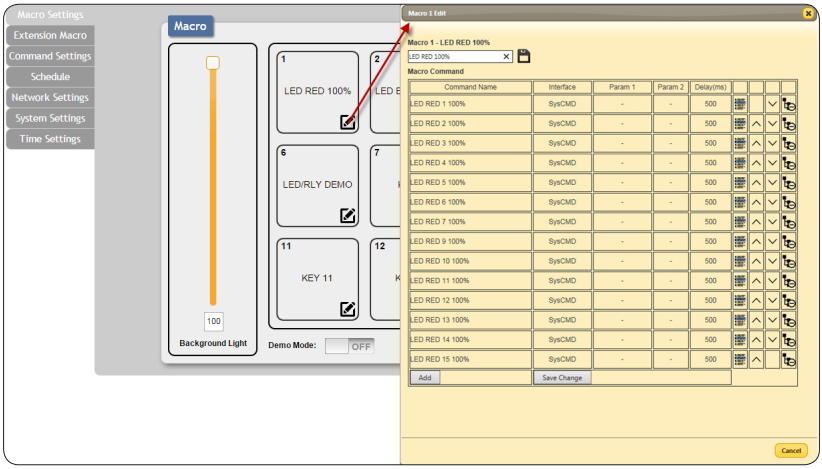


There are 6 Macro inserted as default setting for testing the Wall-Plate Control System's functionality. Click on Macro 1~6 to demonstrate the function of lighting LEDs.

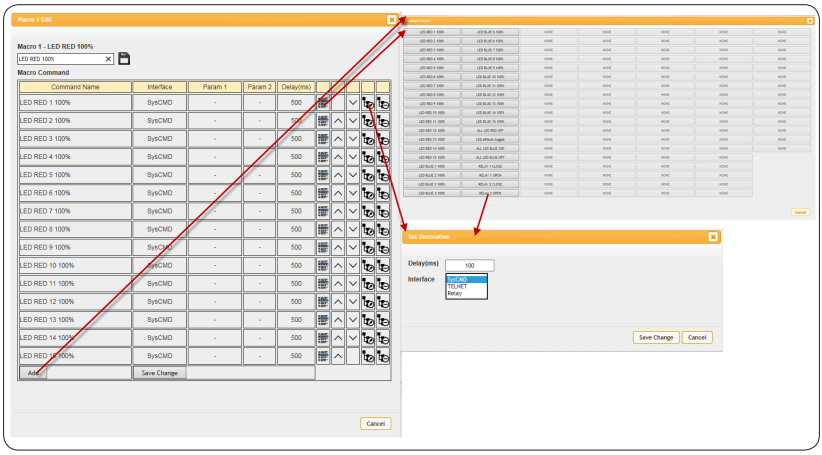
- Macro 1: Light up the Red backlight LED with 100% brightness sequentially from 1~15 with every 500ms
- Macro 2: Light up the Blue backlight LED with 100% brightness sequentially from 1~15 with every 500ms
- Macro 3: Switch off all the red backlight LED with 0% brightness
- Macro 4: Switch off all the 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.

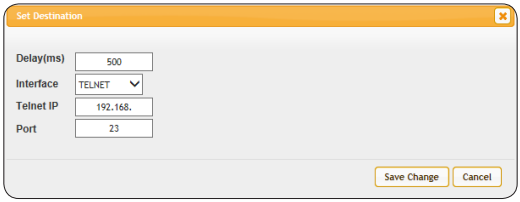
Click on the mark to edit the command settings. Up/down arrows are to move the command up or down and button is to delete the command.



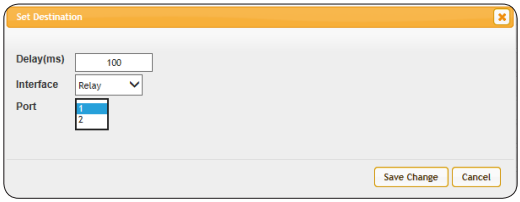
Click on Insert button/Add to insert commands. Command can be set to control the Wall-Plate Control Box/SysCMD, other devices connected within the same Telnet system/Internet area and Relay devices connected through the Relay outputs of Wall-plate Control Box with delay time. It is suggested the delay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



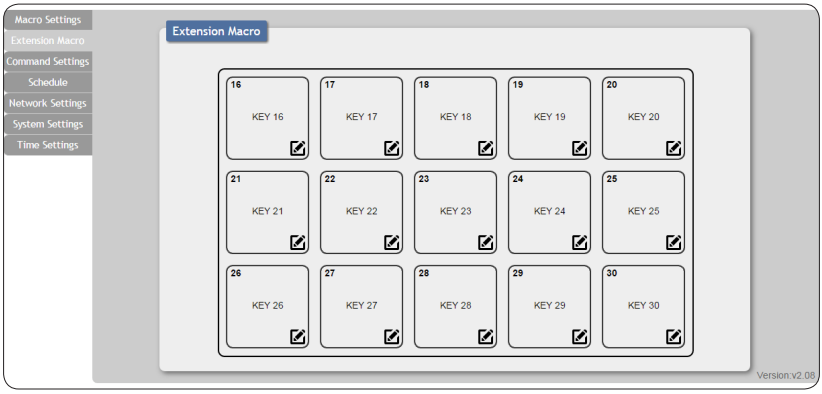
Command set to control the devices within the same telnet system or internet area require to set its IP and Port number and it is strongly recommand to set the delay time >500ms in order to secure a successful command sending. Once the setting is done click on Save Changes.



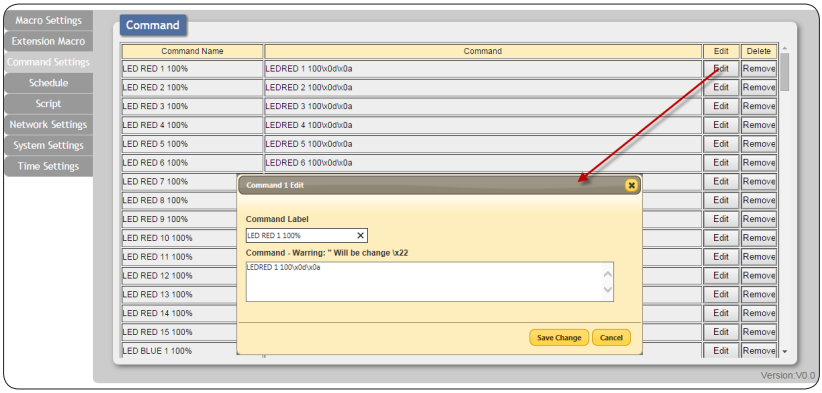
Command set to control the Relay devices require to set the Port number. Click on Save Change to confirm the setting.



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

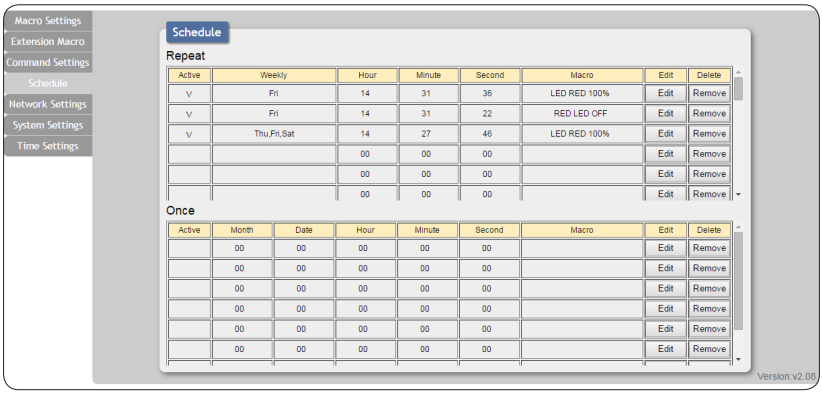


Click on 'Command Settings' to insert new commands or delete commands. Command under 128 characters including space can be build up to 128 commands, command over 128 characters and under 512 characters including space can be build up to 32 command in addition with 96 commands of 128 characters under.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

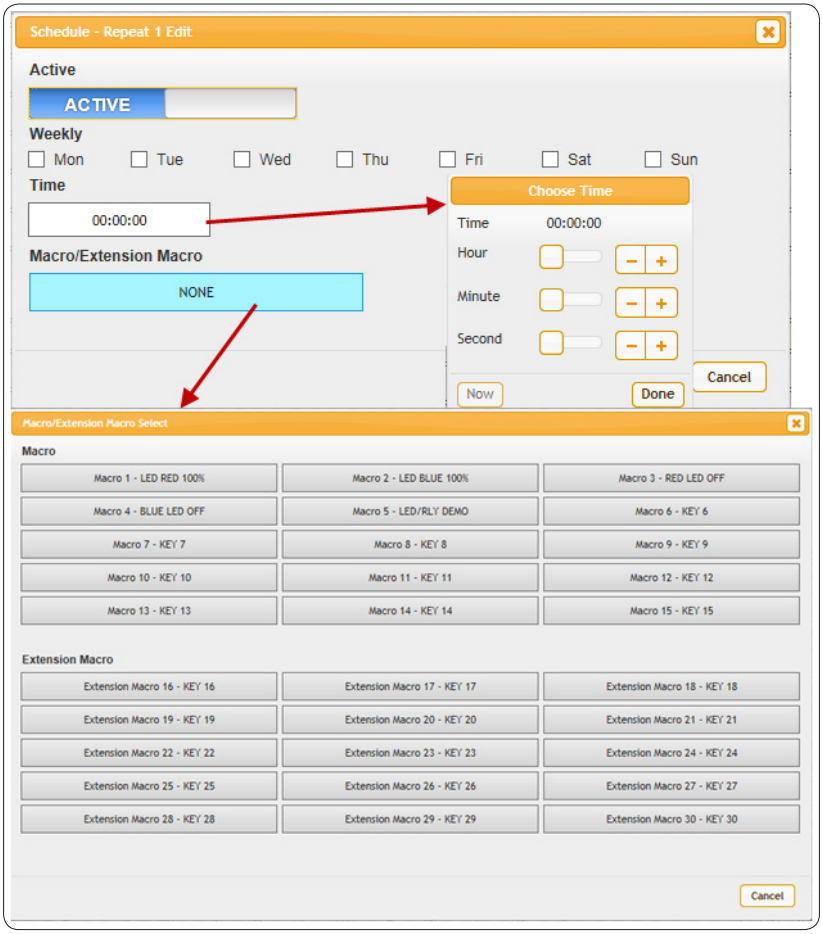


Click on 'Schedule' to set the executing time schedule of the Macro(s).

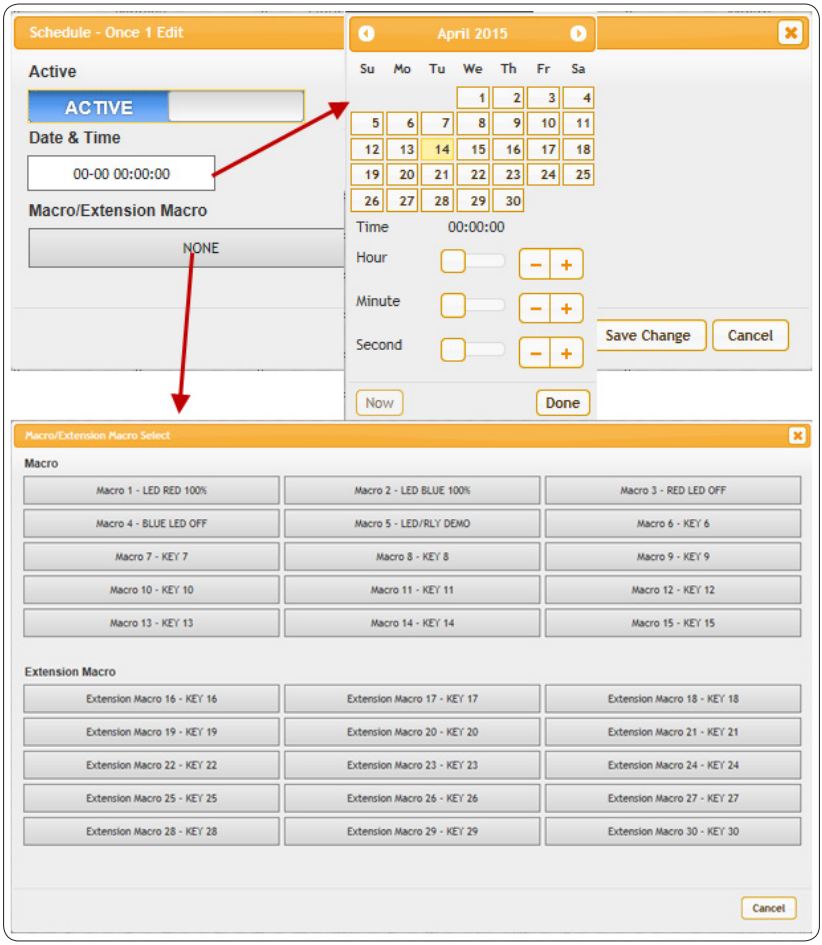
Note: The scheduling system support up to 48hrs of memory under power blackout after that the system will reset the time automatically back to 2015/01/01 00:00:00.



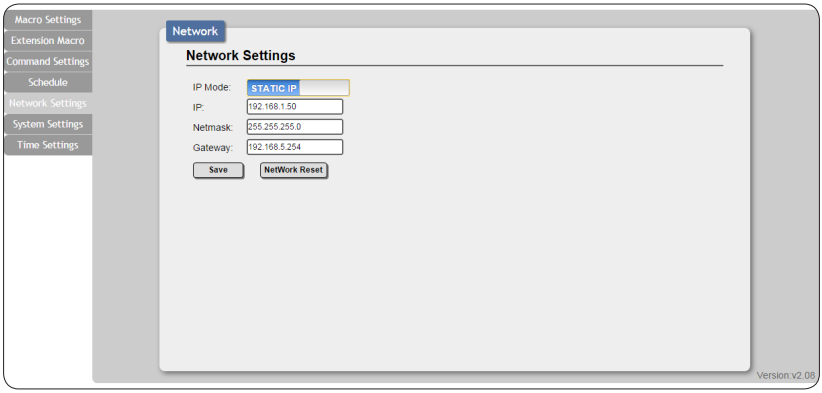
Click on Edit from Repeat column to set the macro command(s) to be activated repeatedly on a set time.



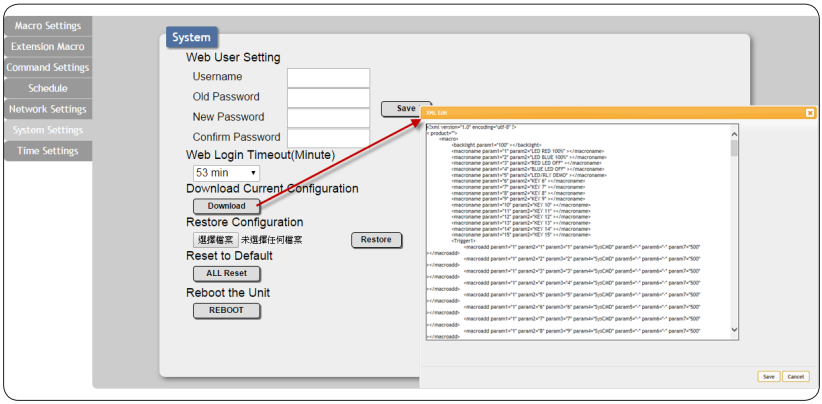
Click on Edit from Once column to set the macro command(s) to be activated on a set time only.



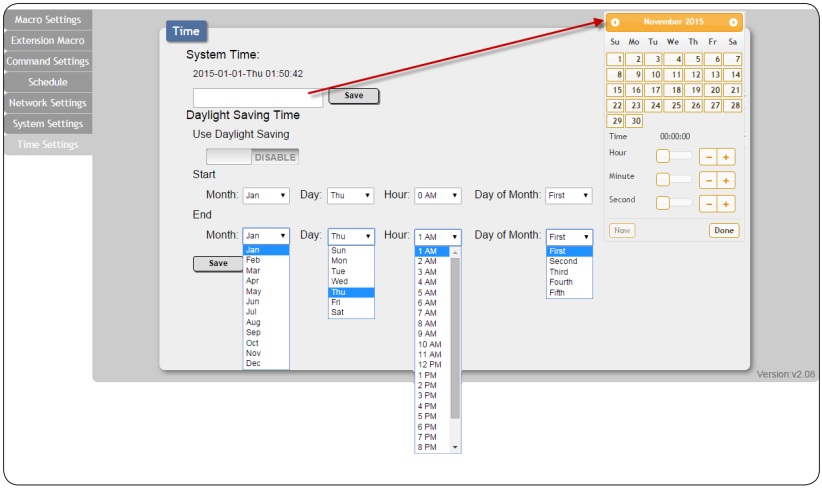
Click on 'Network Settings' to reset the IP, Netmask or Gateway address.



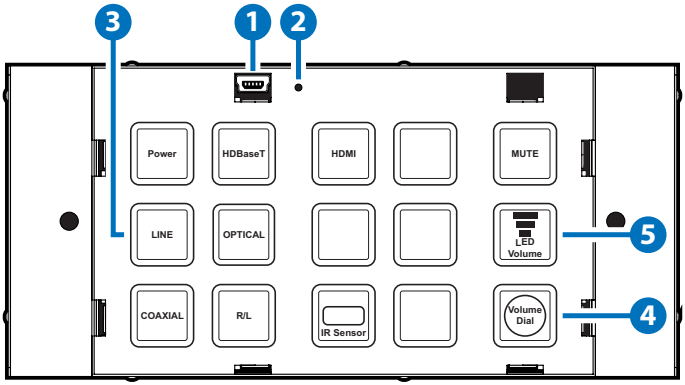
Click on 'System Settings' to reset the WebGUI login password and timeout setting and save or download the Macro settings. Reset to Default allows IP and login ID & password to be reset back to factory default.



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.



6.7 Hot Keys and Reset IP address



1. All configure return to factory default:

1. Remove the front plate.
2. Press and hold the middle rightt button (4).
3. Press the reset button (2) once using an thin, pointed instrument such as pin. The middle right button (4) will blink 3 times. All configure set to factory default.

2. Clear all command and macro setting:

1. Remove the front plate.
2. Press and hold the middle right button (5).
3. Press the reset button (2) once using an thin, pointed instrument such as pin. The middle right button (5) will blink 3 times. All macro setting and command setting will be cleared.

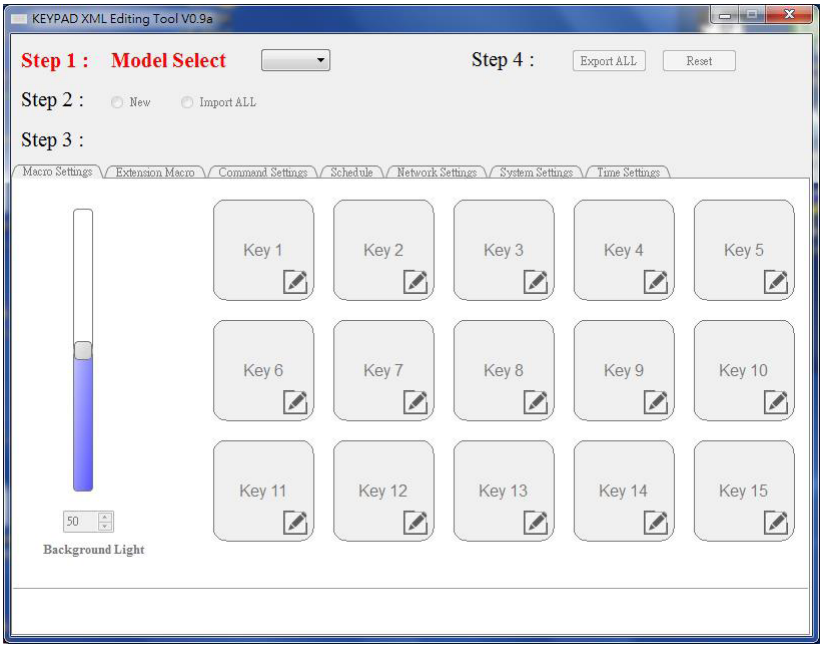
3. Reset IP address:

1. Remove the front plate.
2. Press and hold the middle left button (3).
3. Press the reset button (2) once using an thin, pointed instrument such as pin. The middle left button (3) will blink 3 times. The IP settings will be reset to DHCP IP.

6.8 PC Application Software

Please download the software from www.cypress.com.tw with file name KEYPAD_XML_APP and save it in a directory where you may use it to edit your own XML file.

Click and open the "KEYPAD_XML_APP"



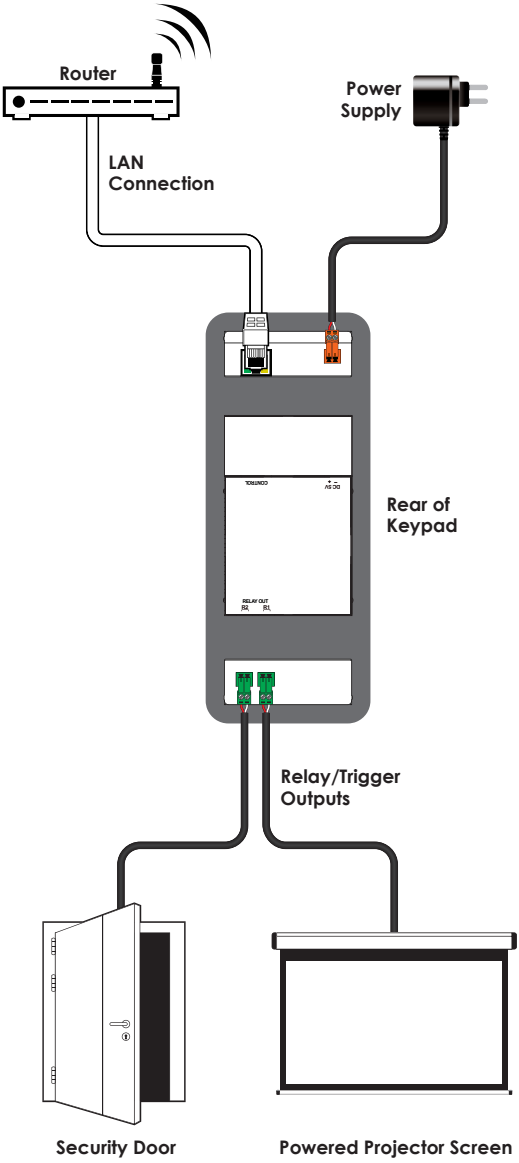
Step1: Select the Keypad Model.

Step2: Create a new XML file or import an existing XML File.

Step3: Start to edit your own scenario control settings. All operation are the same as the WebGUI Control. Please refer to 6.6 WebGui Control to get more information.

Step4: After finishing your own control settings. Click "Export All" to save it as a XML file. Then you can use this file to upload to your keypad by WebGui. Or click "Reset" to clear all settings and edit again.

7. CONNECTION DIAGRAM



8. SPECIFICATIONS

Input Ports	15×Buttons, 1×IP Control (Terminal Block)
Output Ports	2×Relay (Terminal Block)
Power Supply	5 V/2.6 A DC (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human body model: ±8 kV (air-gap discharge) ±6 kV (contact discharge)
Dimensions	148.5 mm (W)×87mm (D)×28 mm (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