

CR-KP5-R

4-Button Keypad Controller & Rotary Dial with Push Button

OPERATION MANUAL

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Version 1.1

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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.
- Please completely disconnect the power when the unit is not in use to avoid wasting electricity.

VERSION HISTORY

REV.	DATE	SUMMARY OF CHANGE
v1.00	26/03/2026	Initial release
v1.01	22/07/2026	Corrected unit dimensions

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1. INTRODUCTION

The CR-KP5-R is a versatile and useful control product for both system integrators and smart home users. It can send commands to any Ethernet-controlled device in your system.

Equipped with 4 physical macro buttons and a rotary encoder for 3 additional macro controls, users can recall up to 7 distinct macros. Additionally, it can store up to 128 commands and can be used for projector control in a meeting rooms or for environmental control over audio and video.

Primary control is via a comprehensive Web GUI interface, complemented by Telnet commands. The built-in clock and calendar-based scheduling feature enables triggering macros to control devices at specific times or on a recurring schedule, enhancing automation within your installation.

The buttons feature vibrant RGB LED lighting, making them suitable for any environment. With PoE (Power over Ethernet) support, users can place the keypad creatively without needing proximity to a live power source. Functions can be customised to suit individual needs, such as configuring the rotary dial to adjust volume levels or control lighting brightness, providing enhanced flexibility and usability.

Available in black and white.

2. APPLICATIONS

- Smart Home Control
- Control Center
- Function Room
- Product Showroom
- Ballroom

3. PACKAGE CONTENTS

- 1× IP Keypad with Rotary Encoder
- 1× 1-Gang Wall Plate (US or EU/UK, White or Black)
- 1× Terminal Block (4-pin)
- 1× Operation Manual

4. SYSTEM REQUIREMENTS

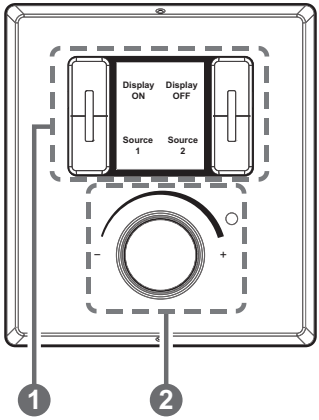
- An active Internet connection from a switch or router for control of Ethernet devices.
- A PoE supporting network switch or hub is required to use the PoE power function, otherwise access to a local power outlet is needed.

5. FEATURES

- 1-Gang (US or EU/UK) wall plate design with customizable tri-colour LED buttons
- Can be powered by an Ethernet switch that supports the IEEE 802.3af PoE standard (Optional)
- Supports up to two years of backup power for the internal clock and schedule function to protect against blackouts and temporary power loss
- Controllable via keypad, RS-232, Telnet and WebGUI
- 7 macros for controlling user equipment
- Up to 128 total commands can be stored and used across all macros in the system
- Supports customizable daylight savings time configuration
- Supports condition checking within macro commands for expanded macro design flexibility
- Supports time and date macro scheduling (single and recurring)
- Firmware update via micro USB and WebGUI

6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel



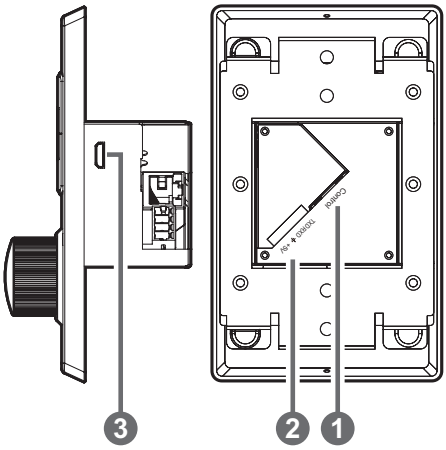
1. **KEY 1~4 Buttons:** Each button activates the customizable macro that has been assigned to it. Each button contains a trio of individually controllable coloured LEDs (red, green, and blue).

   Note: Further details on macro configuration settings please refer to section 6.5.2.1.

2. **Rotary Knob & LED:** Rotating the knob clockwise or counterclockwise, or pressing it activates the customizable macro that has been assigned to it. The LED contains a trio of individually controllable coloured LEDs (red, green, and blue).

   Note: Further details on macro configuration settings please refer to section 6.5.2.1.

6.2 Rear and Side Panel



1. **Control Port:** Connect to an active Ethernet network via a switch or router to allow it to control other devices on the network and to be accessed via Telnet/WebGUI.

   Note: If the connected network switch supports the IEEE 802.3af PoE (Power over Ethernet) standard, this unit can optionally be powered directly via this Ethernet connection.

2. **RS-232/DC 5V 4-pin Terminal Block:** The following functions share a common ground pin (marked as "⏚").

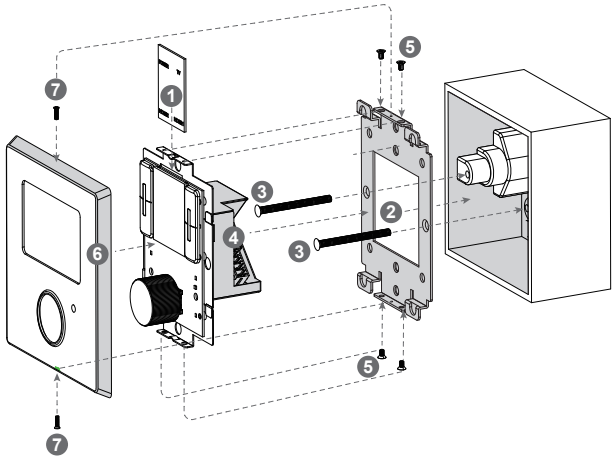
   RS-232 3-pin Terminal Block (Left): Connect directly to a PC, laptop, or other serial control device with a 3-pin adapter cable to send RS-232 commands to control the unit.

   DC 5V 2-pin Terminal Block (Right): Plug the 5V DC power adapter into this port and connect it to an AC wall outlet for power.

   Note: Optional, not required if the unit is powered via PoE.

3. **Micro USB Port:** This port is reserved for firmware update use only.

6.3 Physical Installation



1. Remove the decorative faceplate from the front of the unit by pulling on it.

   Note: The faceplate is held in place by 4 magnets.

2. Place the unit into a EU/UK single gang backbox (not included) and ensure that all necessary cabling (Ethernet, RS-232, power) is properly fed through the back access holes in the wall box and connected to the back of the unit.

3. Secure the unit in place with appropriate mounting screws. Typically these are supplied with the electrical wall box.

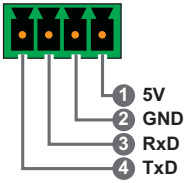
4. Reattach the decorative faceplate to the front of the unit.

6.4 Serial Pinout and Defaults

Serial Port Default Settings	
Baud Rate	19200
Data Bits	8
Parity Bits	None
Stop Bits	1
Flow Control	None

RS-232 with 5V

4-pin Terminal Block



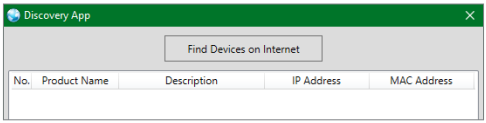
6.5 WebGUI Control

Device Discovery

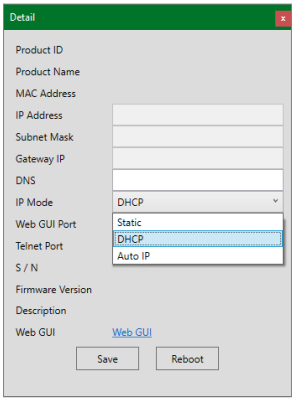
Please obtain the "Device Discovery" software from your authorised dealer and save it in a directory where you can easily find it.

Connect the unit and your PC/Laptop to the same active network and execute the "Device Discovery" software. Click on "Find Devices on Internet" and a list of devices connected to the local network will show up indicating their current IP address.

Note: This unit defaults to DHCP mode. The current IP address can only be verified using the Device Discovery software.



By clicking on one of the listed devices you will be presented with the network details of that particular device.



1) **IP Mode:** If you choose, you can alter the static IP network settings for the device, or switch the unit into DHCP mode to automatically obtain proper network settings from a local DHCP server. To switch to DHCP mode, please select DHCP from the IP mode drop-down, then click "Save" followed by "Reboot".
2) **WebGUI Hotkey:** Once you are satisfied with the network settings, you may use them to connect via Telnet or WebGUI. The network information window provides a convenient link to launch the WebGUI directly.

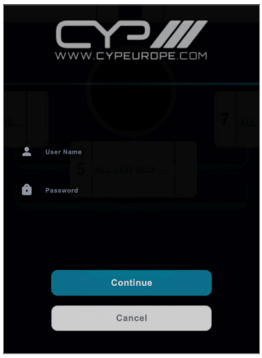
WebGUI Overview

After connecting to the WebGUI's address in a web browser, the home page will appear. This page contains a set of useful functions that can be accessed without the need to log in.



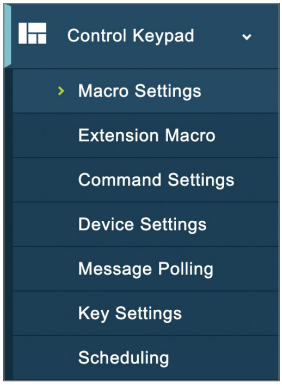
Click the login icon ( ) in the upper right corner to log in, enter the appropriate user name and password then click "Continue" to log in.

Note: The default user name and password is "admin".



After logging in, the upper right corner will now display 3 navigation icons. Clicking on the "System Settings" icon ( ) will take you to the System Settings page for configuration options including IP configuration and firmware update functionality. Clicking on the "User Management" icon ( ) will take you to the User Management page, provides access to user management controls for the unit. Clicking on the "System Information"

icon ( ) will take you to the System Information page, providing information of technical support for the unit. Clicking on the red "Logout" icon ( ) will log the currently connected user out of the WebGUI and return to home page. Clicking on the "Home" icon ( ) at the upper left corner of the page will return to home page.



Click on the "Hamburger" icon ( ) in the upper left corner to open up the main page, the left side of the browser will display a compressed version of the above menu tabs where all primary functions of the unit are controllable via the built in WebGUI. The individual functions will be introduced in the following sections.

6.5.1 Home Page

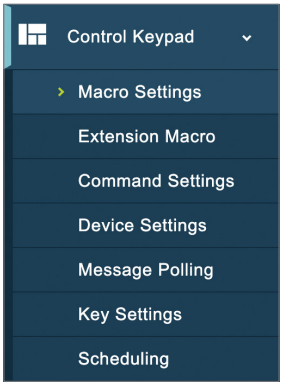
This page provides easy access to unit's physical macro and rotary knob buttons.



1) **Macro Buttons:** Press any of these buttons to activate the macro currently stored within it.

6.5.2 Control Keypad Pages

The Control Keypad pages are a collection of seven configuration and information pages containing controls for configuring the unit's keypad settings.



6.5.2.1 Macro Setting Page

This page provides a way to execute/edit the settings for the unit's physical macro and rotary knob buttons. These macros can be executed by pressing the physical buttons on the keypad as well as via the WebGUI or Telnet. Control over the LED Demo Mode is also provided here.

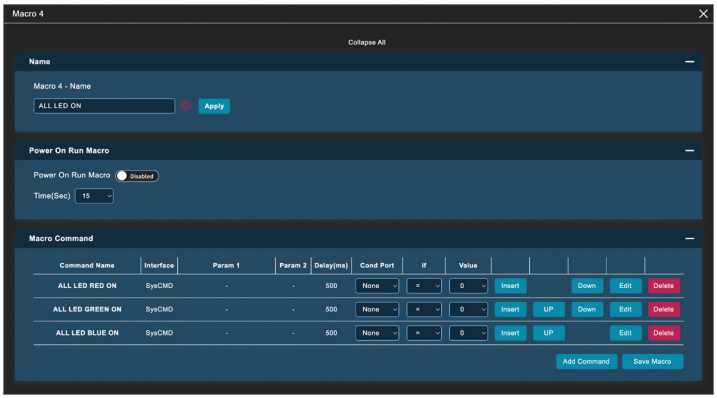


1) **Macro Buttons:** Press any of these buttons to activate the macro currently stored within it. Click on the edit icon (⚙) to edit each button's macro.

2) **LED Demo:** This switch enables or disables the LED Demo Mode. When Demo Mode is active, the unit will automatically turn the LEDs on and off in various patterns.

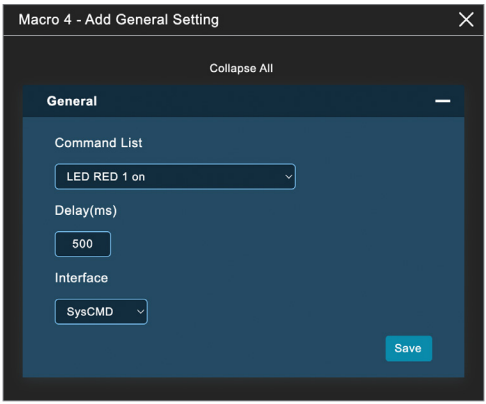
   Note: LED Demo Mode is off by default.

3) **Macro Edit:** Click on any button's edit icon (⚙) to edit that button's macro. The Macro Edit window displays the full contents of the macro including its name as well as each command's communication interface to use with its associated parameters, delay time before executing the next command, and conditional execution requirements. The order of command execution is from top to bottom. When you have finished editing the macro click on "Save Macro".

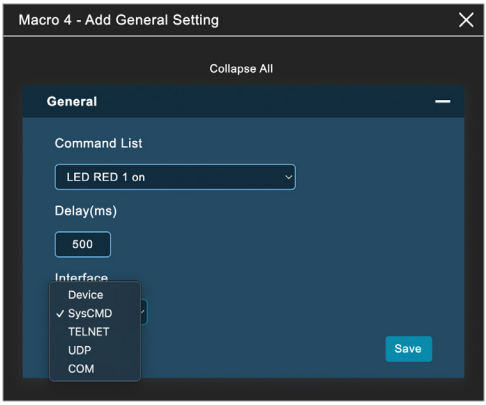


- **Macro Name:** To change the name of a Macro, type the new name in the space provided, then click on the "Apply" button. To resume to the stored name before adjusting, click on the revert icon (⚙).
- **Power On Run Macro:** Enable or disable this macro being automatically executed every time unit powers on. An execution start delay must also be set, using the dropdown, with a range from 1 to 240 seconds.
- **Macro Command:** The list of command is default in the storage. You can click on the "Add Command" button to add a new command to the end of the list. When you have finished editing the macro click on "Save Macro".
  - **Add Command:** Click on the "Add Command" button to add a command to the end of the list. Use the dropdown to select one of the pre-defined commands.

    Note: Detail on how to create these pre-defined commands are provided in section 6.5.2.3.



The "Delay(ms)" setting is the length of time to wait before sending the next command and is set in milliseconds. The interface for sending commands can be set, using the dropdown, to predefined Ethernet devices (Device), to the Keypad itself (SysCMD), through the RS232 interface (COM), or to a specified IP address using the Telnet or UDP protocols.

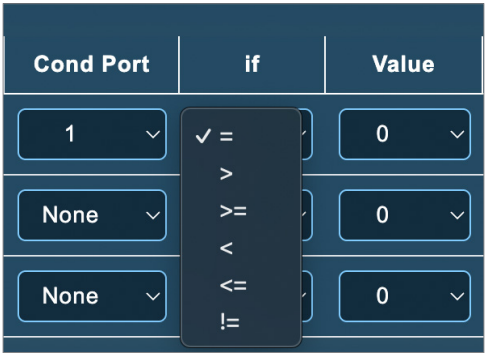


Sending commands to devices on the local network, or across the Internet requires the IP address and network port number of the destination device. Once the destination information is complete please click on "Save" button.

Note: It is strongly suggested to not set a delay time less than 100ms for system commands or less than 500ms for Telnet commands to ensure

that the command is properly received and executed before the next command is sent.

- **Insert Command:** Click on the "Insert" button to duplicate and insert the new command before the current one.
- **Change Command Order:** Clicking on the up/down buttons will change the execution order of each command.
- **Edit Command:** Click on the "Edit" button to configure the current command.
- **Remove Command:** Clicking on the delete button will remove that command from the execution list.
- **Execution Condition:** Use the dropdowns to set a specific condition for each step in the macro to execute or not. If an execution condition tests as "false" when it is time to execute that command, then that step of the macro will be skipped. Selecting "None" means the macro command will always be executed.



To configure a condition test, select the Condition Port to read a value from, select a logical comparison expression, and then select a static value to use for the comparison.

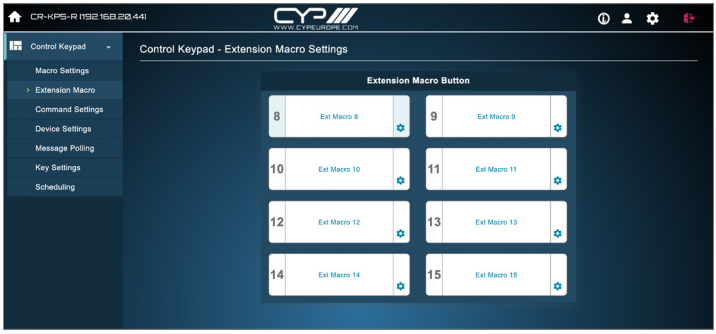
For example, if the following choices are made:

Cond Port [1], If [=], Value [0]

Then the unit will check the value of Condition Port #1 and if the value stored there equals "0" then the test will return "true" and the macro step will execute. If the stored value is any other number, it will return "false" and the macro step will be skipped.

6.5.2.2 Extension Macro Setting Page

This page provide a way to execute/edit the additional software-only macro buttons. These macros can only be executed via the WebGUI or Telnet. Macro activation and editing in these tabs is identical to the Macro Settings tab.

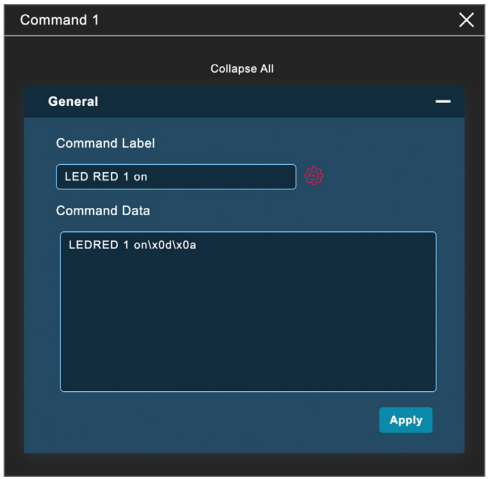


6.5.2.3 Command Setting Page

This page provides a way to create, edit, or delete commands. The number of commands that can be stored in the keypad is limited by memory. It is generally recommended that commands be under 128 characters long (including spaces). However, if longer commands are needed there is limited support for commands up to 512 characters long. The number of (up to) 512 character commands is limited to 32 and the remaining 96 commands must be under 128 characters.



1) **Command Edit:** To edit or create a new command, click on the "Edit"/"Add" button. The name of the command and its text contents can be entered here.



- **Special Characters:** Special control characters that can't normally be typed should be entered using their ASCII hex value preceded by the "\x" escape sequence. For example, a carriage return and linefeed would be entered as: "\x0d\x0a". Click on "Save Change" to save the command.
- **SYS Commands:** The unit's LED mode can be used as commands within a macro to directly control the unit. Demo commands can be

found in WebGUI's default Command Settings page.

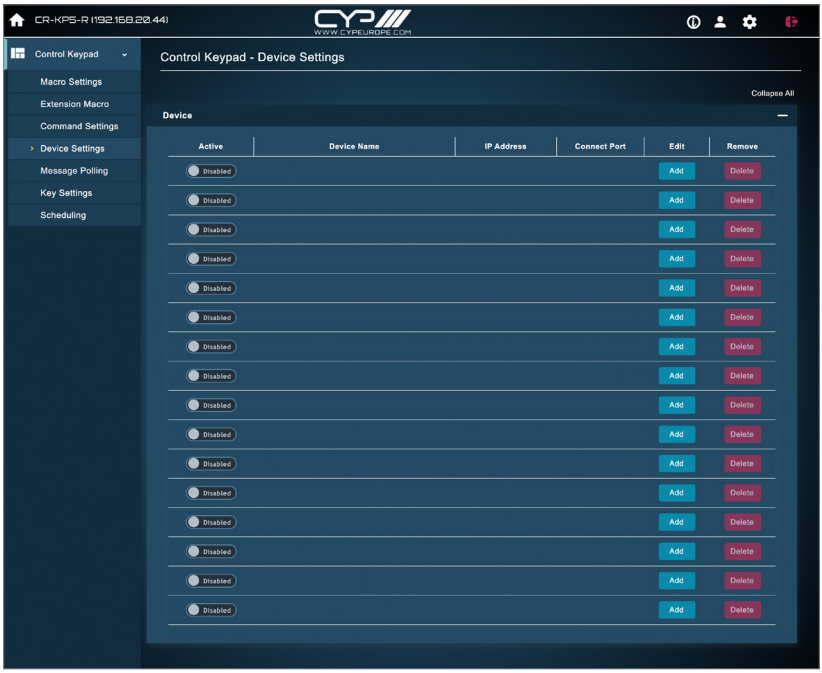
Note: To use these the command interface must be set to SysCMD when creating the macro.

2) **Command Delete:** To completely remove a command from the unit, click on the "Delete" button next to the command.

Note: If the deleted command was used in any macros, it will be removed from them as well.

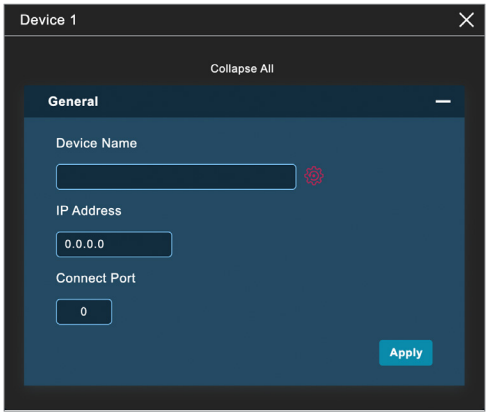
6.5.2.4 Device Setting Page

This page provides controls to enable/disable or add/remove standard network connected devices to be used as the interface target for a macro command. Up to 16 devices can be defined for easy use with commands. The name of each device can be up to 24 characters long. A valid IP address and network port are required for each device. These settings are directly linked to any associated macro commands.



1) **Active:** Once a device has been defined, it can be enabled or disabled as an available target device by clicking on the button.

2) **Edit Device:** Clicking on the "Edit" button opens up the Edit Device window. Here the target device's name, IP address and Telnet port can be set. Click on "Apply" to save the device's configuration.



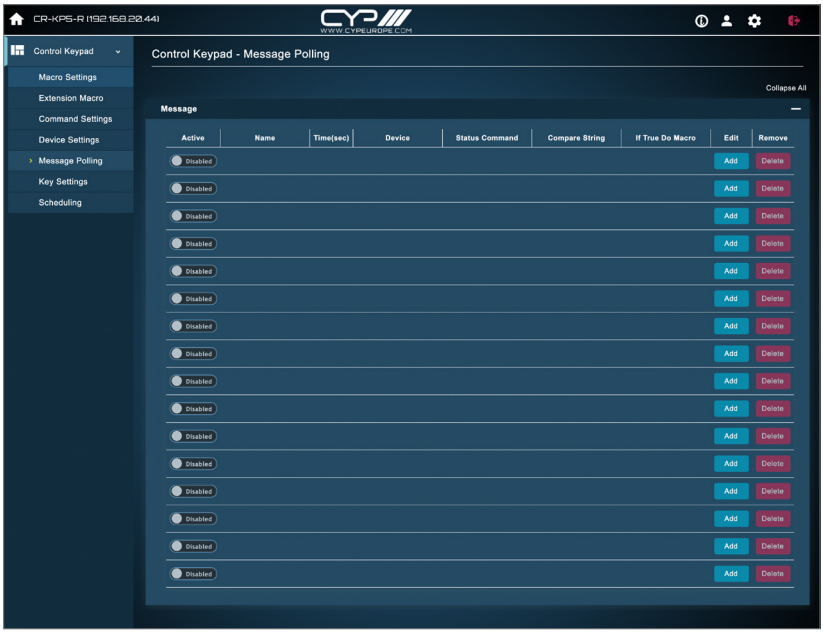
3) **Remove Device:** To completely remove a device definition from the unit, click on the "Delete" button next to the device.

Note: If a deleted device was used as the target of any commands in a macro, those command entries will automatically be removed from the macros as well.

6.5.2.5 Message Polling Page

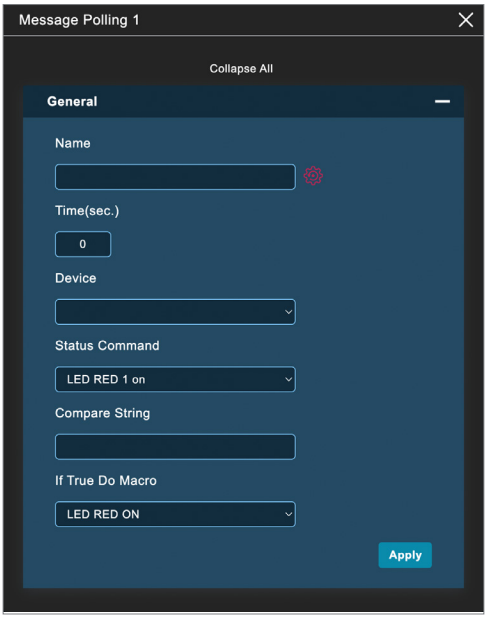
This page provides controls to enable/disable or add/remove Polling Command events. Up to 16 Polling events can be defined. Polling Command events are used to check the current status of various functions on Ethernet based remote devices, typically to verify power or selection status for the purpose of changing LED colours or setting Condition Port values.

Note: Polling events operate on independent timers once enabled



1) **Active:** Once a Polling Command has been defined, it can be enabled or disabled by clicking on the "Enable/Disable" button.

2) **Edit Polling:** Clicking on the "Edit" button opens up the Edit Polling window. Here the Polling Command's full configuration can be set. Click on "Save Change" to save the Polling Command's configuration.

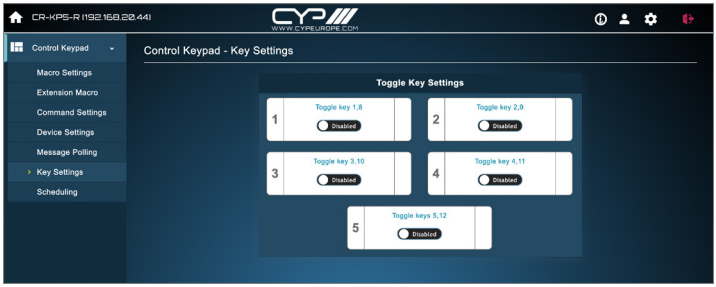


- **Name:** Enter a name for this Polling Command.
- **Time(sec):** Enter the time interval to wait, in seconds, between polling transmissions. The minimum wait time is 1 second.
- **Device:** Use the dropdown to select a pre-defined target Device to send the Polling Command to.
- **Status Command:** Use the dropdown to select a predefined Command from the provided list. This command will be sent to the target Device at the defined interval.
- **Compare String:** Enter a text string to compare against the result returned by the Status Command.
- **If True Do Macro:** Use the dropdown to select a preconfigured macro. If the polling comparison returns a "true" result, run this macro.

3) **Remove Polling:** To completely remove a Polling Command from the unit, click on the "Delete" button next to it.

6.5.2.6 Key Setting Page

This page provides controls to enable/disable the "Toggle" mode associated with each of the unit's physical macro buttons.

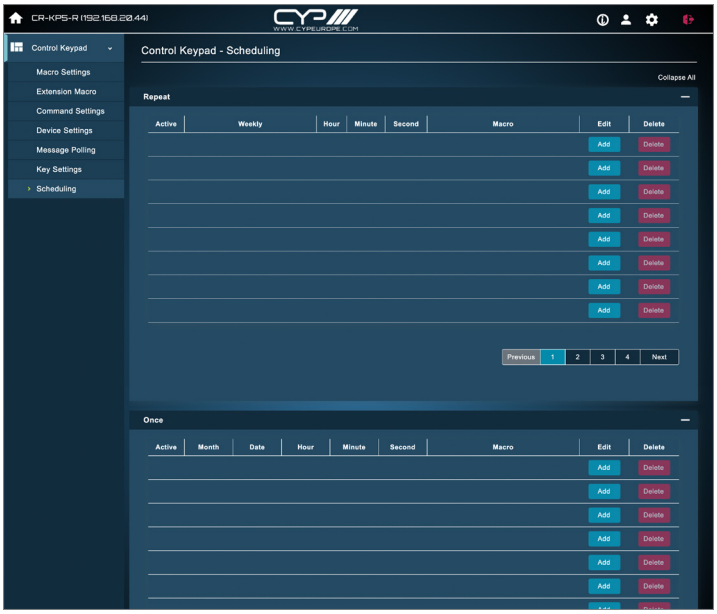


1) **Toggle Key:** Enabling this mode will link the two listed macros together and allow them to be toggled back and forth each time the associated button is pressed.

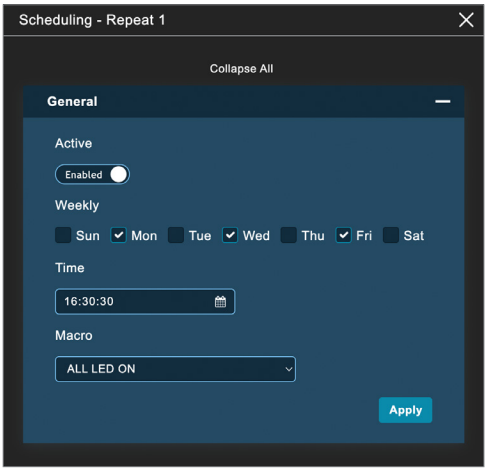
6.5.2.7 Scheduling Page

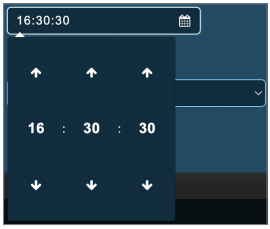
This page provides options to control the built in scheduling features of the keypad. You can set macro events to repeat on a regular daily/weekly schedule or configure a one-time event on a specific date. Events can be edited and deleted from the main tab by clicking on the appropriate button. The system can store up to 32 repeating events and up to 8 one-time events.

Note: Each scheduled item must be set as "Active" for it to activate at the scheduled time.



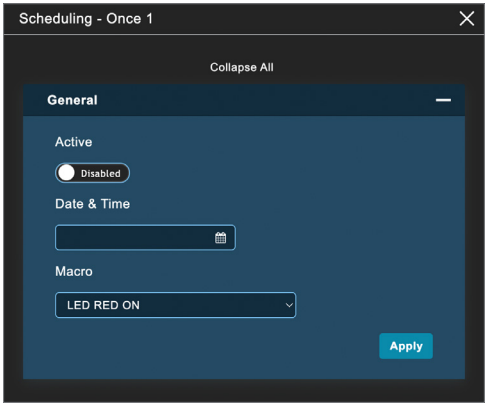
1) **Schedule Repeat:** Items in this section will execute at their set times on the selected days (Sunday through Saturday) every week as long as they are marked as "Active". "Repeat" events can be edited and deleted from by clicking on the appropriate button. Click on "Apply" to save the changes to the scheduled event.

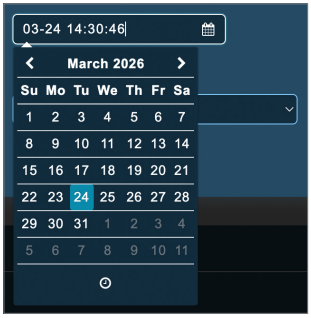




- **Active:** Click this to toggle if the scheduled event is active or disabled.
- **Weekly:** Select the days of the week that the event should be executed on, when active.
- **Time:** Set the time that the event should begin execution on all selected days, when active.
- **Macro:** Use the dropdown to select the Macro or Extension Macro to execute.

2) **Schedule Once:** Items in this section are scheduled to occur a single time at the specified time and date. Each item will automatically change to "None Active" after they have been executed once. "Once" events can be edited and deleted from by clicking on the appropriate button. Click on "Apply" to save the changes to the scheduled event.

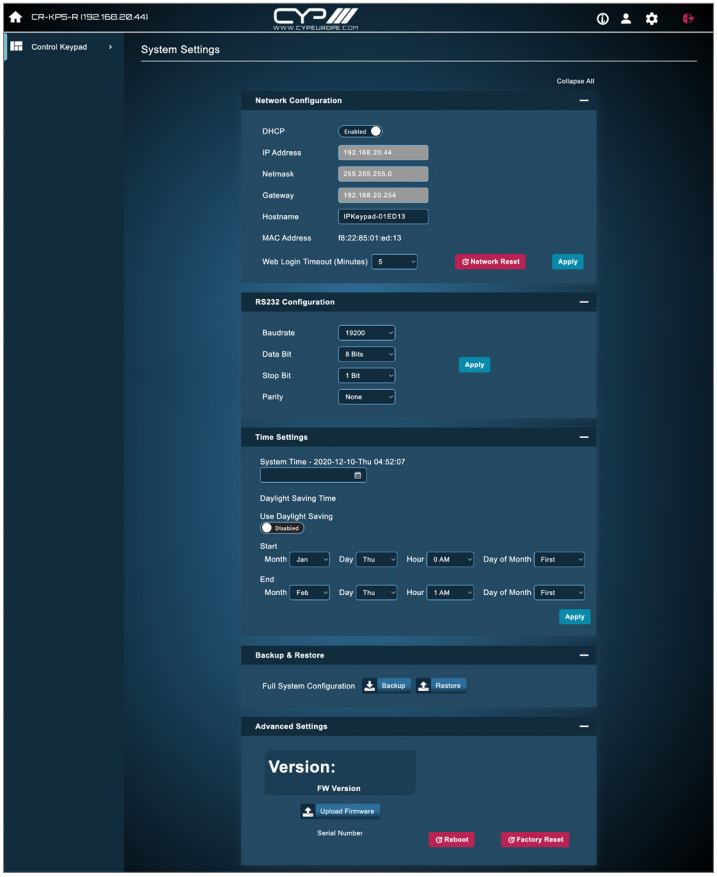




- **Active:** Click this to toggle if the scheduled event is active or disabled.
- **Date & Time:** Click within the Time/date box to open up the time/date selection window. Use the available controls to set the activation time and date for the current event schedule.
- **Macro:** Use the dropdown to select the Macro or Extension Macro to execute.

6.5.3 System Settings Page

Click on the "System Settings" page to make changes to various system settings. From this page you can change the WebGUI login timeout, device name, and IP configurations. It also allows the user to reset the unit to factory default and to update the firmware.



1) **Network Configuration:**

- **IP Configuration:** IP Mode may be switched between Static IP or DHCP. In Static IP Mode the IP, netmask and gateway addresses may be manually set. When in DHCP Mode, the unit will attempt to connect to a local DHCP server and obtain IP, netmask and gateway

addresses automatically. Please press "Apply" after making any changes to the IP configuration or mode.

Note: If the IP address is changed then the IP address required for WebGUI/Telnet access will also change accordingly.

- **Web Login Timeout (Minutes):** Set the length of time to wait, in minutes, before logging out a user due to inactivity. Setting it to "Never" means there is no timeout.
- **Network Reset:** Reset all Ethernet settings back to their factory defaults.

2) **RS232 Configuration:** Set the desired baud rate, data bits, parity, and stop bit for the unit's serial port, then click on the "Apply" button.

3) **Time Settings:** Provides controls to set the system's time and date. After setting the system time, the unit will maintain the correct time, even when powered off, due to a battery backed up clock. If your country uses DST (Daylight Saving Time) you can enable or disable it here and configure the start and end times/dates so that your scheduled events will always occur at the correct times throughout the year.

   Note: This unit has two years of backup power for the internal clock to protect against power loss and blackouts. After the backup power is exhausted the system time will reset back to 2020/12/10 00:00:00.

   - **System Time:** The unit's time and date can be manually configured here. Click in the empty box to open the time and date configuration screen and select the preferred values. After entering a new time and date, click the "Apply" button to store it in the unit and start the clock running.
   - **Daylight Saving Time:** Enable or disable the use of DST adjustments for the unit's time, click the "Apply" button to store it in the unit.

     Note: Enabling Daylight Saving Time while outside the configured DST range will result in no change to the current time.

     - **Start:** Set the month, week, day and time for the start of DST in the current time zone.
     - **End:** Set the month, week, day and time for the end of DST in the current time zone.

4) **Backup & Restore:**

   - **Backup:** The current system configuration, including routing and

settings, may be saved to a PC (*.json format). Click the "Backup" button to save the current system configuration to your local PC.

- **Restore:** Previously saved system configurations may be restored from a saved file. Click the "Restore" button to open the file selecting window and then select the saved file (*.json format) located on your local PC. After selecting the file, click the "Open" button to import the new configuration.

5) **Advanced Settings:**

- **Firmware Version:** Displays the unit's firmware version.
- **Firmware Upgrade:** To update the unit's firmware, click the "Upload Firmware" button to open the file selection window and then select the firmware update file (*.bin format) located on your local PC. After the upgrade is complete, the unit will reboot automatically.
- **Serial Number:** Displays the unit's serial number.
- **Reboot:** Click this button to reboot the unit.
- **Factory Reset:** Press the "Factory Reset" button to reset the unit to its factory default state. After the reset is complete, the unit will reboot automatically.

6.5.4 User Management Page

This page provides access to user management controls for the unit, such as changing the admin login password.



1) **Administrator Account:** The username and password for the WebGUI can be changed on this page. After entering the old and new login information, press "Apply" to save the changes.

   Note: The default user name and password is "admin".

6.5.5 System Information Page

This page provides technical support information, including serial number/version details and contact information for the manufacturer.



1) **Information:** Displays the unit's firmware and the unit's serial number.
2) **Manufacturer Contact Information:**
   - **Website:** Displays the manufacturer's official website link.
   - **E-mail:** Displays the manufacturer's contact email address.
   - **Contact Number:** Displays the manufacturer's contact phone number.

6.6 Telnet Control

Before attempting to use Telnet control, please ensure that both the unit and the PC are connected to the same active networks.

Start your preferred Telnet/Console client, or use the built in client provided by most modern computer operating systems. After starting the client, connect by using the current IP address of the unit and port 23 (if the communication port number used by the unit has not been changed previously). This will connect us to the unit we wish to control and commands may now be entered directly.

Note 1: If the IP address of the unit is changed then the IP address required for Telnet access will also change accordingly.

Note 2: This unit defaults to DHCP mode. The current IP address can only be verified using the Device Discovery software. The default communication port is 23.

6.7 Telnet Commands

COMMAND
Description and Parameters
help↵ Show the full command list.
help N1↵ Show details about the specified command. **N1** = {Command Name}
?↵ Show the full command list.
? N1↵ Show details about the specified command. **N1** = {Command Name}
get fw ver↵ Show the unit's current firmware version.
get command ver↵ Show the unit's current command version.
get mac addr↵ Show the unit's MAC address.
get model name↵ Show the unit's model name.
get model type↵ Show the unit's product type.
set factory default↵ Reset the unit to the factory defaults.

COMMAND
Description and Parameters
set factory ipconfig default↵ Reset the unit's IP configuration to the factory defaults.
get user config↵ List the unit's current configuration information.
get update filename↵ Show the unit's firmware update filename.
set nickname N1↵ Set the unit's nickname. **N1** = {Name} [ASCII, 32 characters max]
get **nickname**↵ Show the unit's current nickname.
set hostname N1↵ Set the unit's hostname. **N1** = {ASCII string} [Hostname]
get hostname↵ Set the unit's hostname
set feedback broadcast N1↵ Enable or disable the broadcast of console command feedback. Available values for **N1**: ON [Enable the broadcast] OFF [Disable the broadcast]
get feedback broadcast↵ Show the current console command feedback broadcast state.

COMMAND
Description and Parameters
set system reboot↵ Reboot the unit.
set uart 1 reset↵ Reset the settings of the serial port to the factory defaults.
set uart 1 baudrate N1↵ Set the baud rate of the serial port. Available values for **N1**: 2400 [2400 baud] 4800 [4800 baud] 9600 [9600 baud] 19200 [19200 baud] 38400 [38400 baud] 57600 [57600 baud] 115200 [115200 baud]
get uart 1 baudrate↵ Show the current baud rate of the serial port.
set uart 1 stop bit N1↵ Set the number of stop bits for the serial port. Available values for **N1**: 1~2 [Stop bits]
get uart 1 stop bit↵ Show the current number of stop bits of the serial port.

COMMAND
Description and Parameters
set uart 1 data bit N1↵ Set the data bits for the serial port. Available values for **N1**: 7~8 [Data bits]
get uart 1 data bit↵ Show the current number of data bits of the serial port.
set uart 1 parity N1↵ Set the parity of the serial port Available values for **N1**: 0 [None] 1 [Odd] 2 [Even]
get uart 1 parity↵ Show the current parity setting of the serial port.
set ip mode N1↵ Set the unit's IP address assignment mode. Available values for **N1**: STATIC [Static IP mode] DHCP [DHCP mode]
get ip mode↵ Show the current IP address assignment mode.

COMMAND
Description and Parameters
get ipconfig↵ Show the unit's current IP configuration information.
get ipaddr↵ Show the unit's current IP address.
get netmask↵ Show the unit's current netmask.
get gateway↵ Show the unit's current gateway address.
set static ipaddr N1↵ Set the unit's static IP address. **N1** = X.X.X.X [X = 0~255, IP address]
get static ipaddr↵ Show the unit's current static IP address.
set static netmask N1↵ Set the unit's static netmask. **N1** = X.X.X.X [X = 0~255, netmask]
get static netmask↵ Show the unit's current static netmask.
set static gateway N1↵ Set the unit's static gateway address. N1 = X.X.X.X [X = 0~255, gateway address]

COMMAND
Description and Parameters
get static gateway↵ Show the unit's current static gateway address.
set webgui password N1↵ Set the WebGUI login password. **N1** = {Password} [ASCII, 16 characters max]
get webgui password↵ Show the current WebGUI login password.
set webgui login timeout N1↵ Set the unit's WebGUI inactivity timeout value. Available values for **N1**: 0 [Disabled] 1~60 [Timeout in minutes]
get webgui login timeout↵ Show the unit's current WebGUI inactivity timeout value.
set telnet login N1↵ Enable or disable requiring logging in to Telnet. Available values for **N1**: ON [Enable Telnet login requirement] OFF [Disable Telnet login requirement]
get telnet login↵ Show the current state of Telnet login requirement.

COMMAND
Description and Parameters
set telnet username N1↵ Set the Telnet login username. **N1** = {ASCII string} [Telnet login username]
get telnet username↵ Show the current Telnet login username.
set telnet password N1↵ Set the Telnet login password. **N1** = {Password} [ASCII, 32 characters max]
get telnet password↵ Show the current Telnet login password.
set telnet port N1↵ Set the unit's Telnet access port. **N1** = 1~65535 [Telnet port]
get telnet port↵ Show the unit's current Telnet access port.
set system led N1↵ Test the unit's LEDs by causing them to all blink, or turn off all LEDs. Available values for **N1**: ON [Blink all LEDs] OFF [Turn off all LEDs]

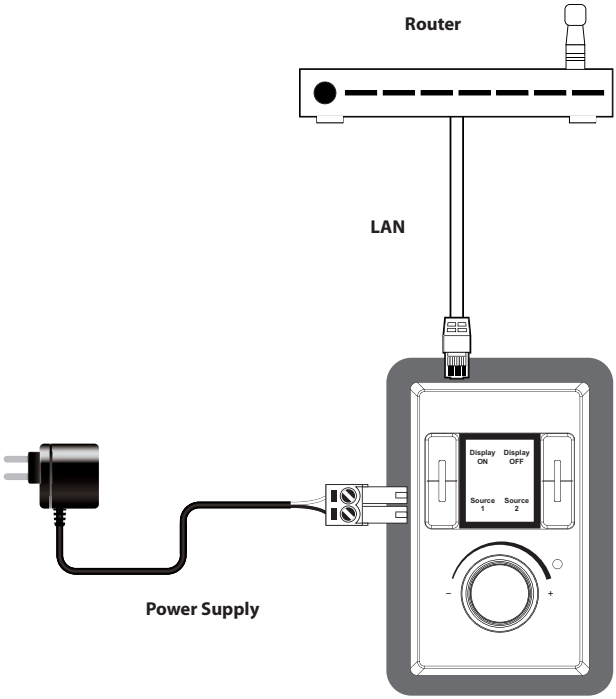
COMMAND	
Description and Parameters	
set key N1 led color N2 N3↵ Set the LED colour and brightness of the specified key. **N1** = 1~5 [Key number] Available values for **N2**: RED [Red LED] BLUE [Blue LED] GREEN [Green LED] Available values for **N3**: 0 [LED off (0% brightness)] 1 [LED on (100% brightness)]	
get key N1 led color↵ Show the current LED colour and brightness values for the specified key. **N1** = 1~5 [Key number]	
set **key N1 repeater N2↵** Set the macro activation style for the specified key. **N1** = 1~5 [Key number] Available values for **N2**: ON [Activates while key is held down] OFF [Activates once upon key pressed] *Note: In repeater mode, the macro will continue to repeat as long as the key is held down.*	
get key N1 repeater↵ Show the current macro activation style for the specified key. **N1** = 1~5 [Key number]	

COMMAND
Description and Parameters
set macro N1 run↵ Run the specified macro immediately. **N1** = 1~15 [Macro number]
set cond N1 value N2↵ Assign a value to the specified Condition Port. **N1** = 1~64 [Condition port number] **N2** = 0~255 [Condition value]
get cond N1↵ Show the current value of the specified Condition Port. **N1** = 1~64 [Condition port number]
set cond N1 value up N2 to N3↵ Set a temporary min/max value range for the specified Condition Port and increase the stored value by 1. **N1** = 1~64 [Condition port number] **N2** = 0~255 [Adjustment minimum value] **N3** = 0~255 [Adjustment maximum value] *Note: If the current value is outside the defined min/max values it will jump to the minimum valid value.*

COMMAND
Description and Parameters
set cond N1 value down N2 to N3↵ Set a temporary min/max value range for the specified Condition Port and decrease the stored value by 1. **N1** = 1~64 [Condition port number] **N2** = 0~255 [Adjustment minimum value] **N3** = 0~255 [Adjustment maximum value] *Note: If the current value is outside the defined min/max values it will jump to the maximum valid value.*

Note: Commands will not be executed unless followed by a carriage return. Commands are not case-sensitive.

7. CONNECTION DIAGRAM



8. SPECIFICATIONS

Control Interface	4×LED Buttons 1×Rotary Knob
Control Ports	1×RS-232 (4-pin Terminal Block) 1×IP Control (RJ-45)
Service Port	1×USB 2.0 (Micro USB)
Baud Rate	Up to 115200
Power Supply	5V/2.6A DC (US/EU standards, CE/FCC/UL certified) or PoE (802.3af)
ESD Protection (HBM)	±8kV (Air Discharge) ±4kV (Contact Discharge)
Dimensions (W×H×D)	97.1 mm×107.1 mm×38.9 mm [Case Only] 97.1 mm×107.1 mm×56.4 mm [All Inclusive]
Weight	145g
Chassis Material	Metal (Aluminum) & Plastic
Chassis Colour	Black or White
Operating Temperature	0˚C – 40˚C/32˚F – 140˚F
Storage Temperature	-20˚C – 60˚C/-4˚F – 140˚F
Relative Humidity	20 – 90% RH (Non-condensing)
Power Consumption	1W (Adapter) 1.9W (PoE)

9. ACRONYMS

ACRONYM	COMPLETE TERM
ASCII	American Standard Code for Information Interchange
Cat.5e	Enhanced Category 5 cable
Cat.6	Category 6 cable
Cat.6A	Augmented Category 6 cable
Cat.7	Category 7 cable
CLI	Command-Line Interface
COM	Communication
DHCP	Dynamic Host Configuration Protocol
GbE	Gigabit Ethernet
Gbps	Gigabits per second
GUI	Graphical User Interface
IP	Internet Protocol
kHz	Kilohertz
LAN	Local Area Network
LED	Light-Emitting Diode
MAC	Media Access Control
PD	Powered Device
PoE	Power over Ethernet
TCP	Transmission Control Protocol
USB	Universal Serial Bus

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