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HT-HIVE-KP8

All-In-One 8 Button User Interface and IP Controller

USER MANUAL

February 1, 2024



A Member of the Hive AV Family



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Introduction

OVERVIEW

The Hive-KP8 is a *key* component of Hive AV control. Just like the Hive Touch, it is both an All-In-One standalone control system as well as an 8 button User Interface. Each button can be programmed to issue TCP/Telnet/UDP commands to IP-enabled devices on the same network, with activation possible via keypad button presses, the embedded webpage, or through user-programmed day/time schedules.

Buttons are configurable for single command execution with a single press or for launching a series of commands as part of a macro. Additionally, they can repeat a command when pressed and held or toggle between different commands with consecutive presses. Up to 16 macros can be programmed and recalled for sending TCP/Telnet messages or commands to various IP-enabled and IoT systems, including AV distribution, factory automation, security systems, and keypad access controls.

Each button is equipped with two programmable color LEDs, allowing for customization of the on/off state, color, and brightness. The Hive-KP8 can be powered using the included power supply or via PoE (Power over Ethernet) from a compatible LAN network.

Featuring an integrated battery-backed clock/calendar, the Hive-KP8 facilitates command execution based on specific day/time schedules, such as automatically powering off and, on the network,-connected devices each evening and morning, respectively.

OVERALL FEATURES

- **Ease of Setup and Use:**
 - Setup is straightforward and requires no software; all configurations can be completed via the KP8's web page.
 - Operates independently of the internet or cloud, suitable for isolated AV networks.
- **Design and Compatibility:**
 - Features a single gang Decora wall plate design with 8 programmable buttons, blending seamlessly into various environments.
 - Requires only a standard PoE (Power Over Ethernet) network switch for operation.
 - Rugged and durable housing ensures easy installation and longevity, ideal for conference rooms, classrooms, factory floors, and machine control settings.
- **Control and Customization:**
 - Capable of sending TCP/Telnet or UDP commands for versatile device management.
 - Offers adjustable LED brightness and color for personalized button indication.
 - Supports up to 16 macros and a total of 128 commands across all macros (with a maximum of 16 commands per macro), facilitating complex system management.
- **Scheduling and Reliability:**
 - Features time and date scheduling with customizable daylight saving time adjustments.
 - Provides up to 48 hours of backup power to maintain the internal clock and calendar in the event of a power loss.

Package Contents

HT-HIVE-KP8

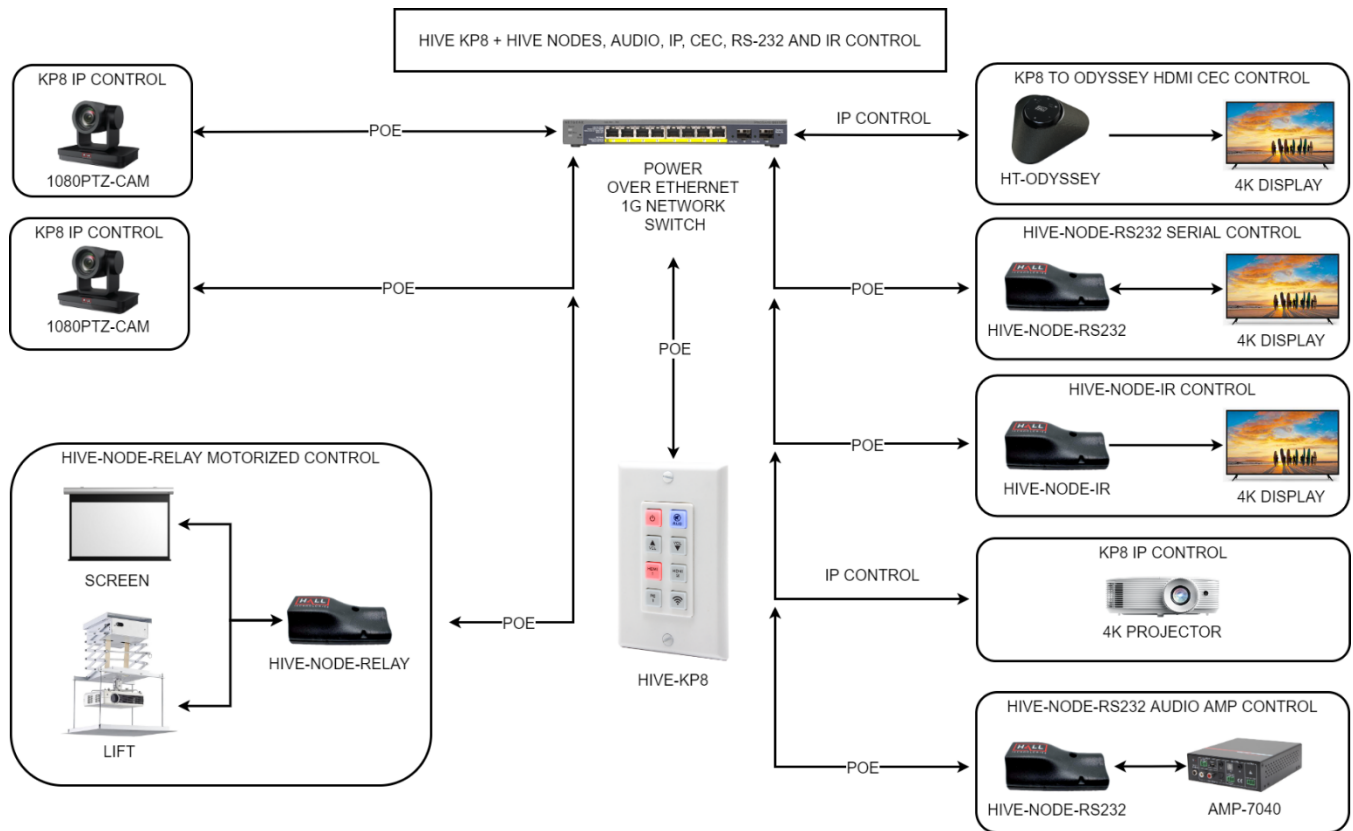
- (1) Model HIVE-KP8 Keypad
- (1) 5VDC, 2.6A Universal Power Supply
- (1) USB Type A to Mini USB OTG connector
- (1) Pre-printed button labels (28 labels)
- (1) Blank button labels (28 labels)
- (1) User's Manual



Configuration and Operation

HIVE KP8 AND HIVE NODES

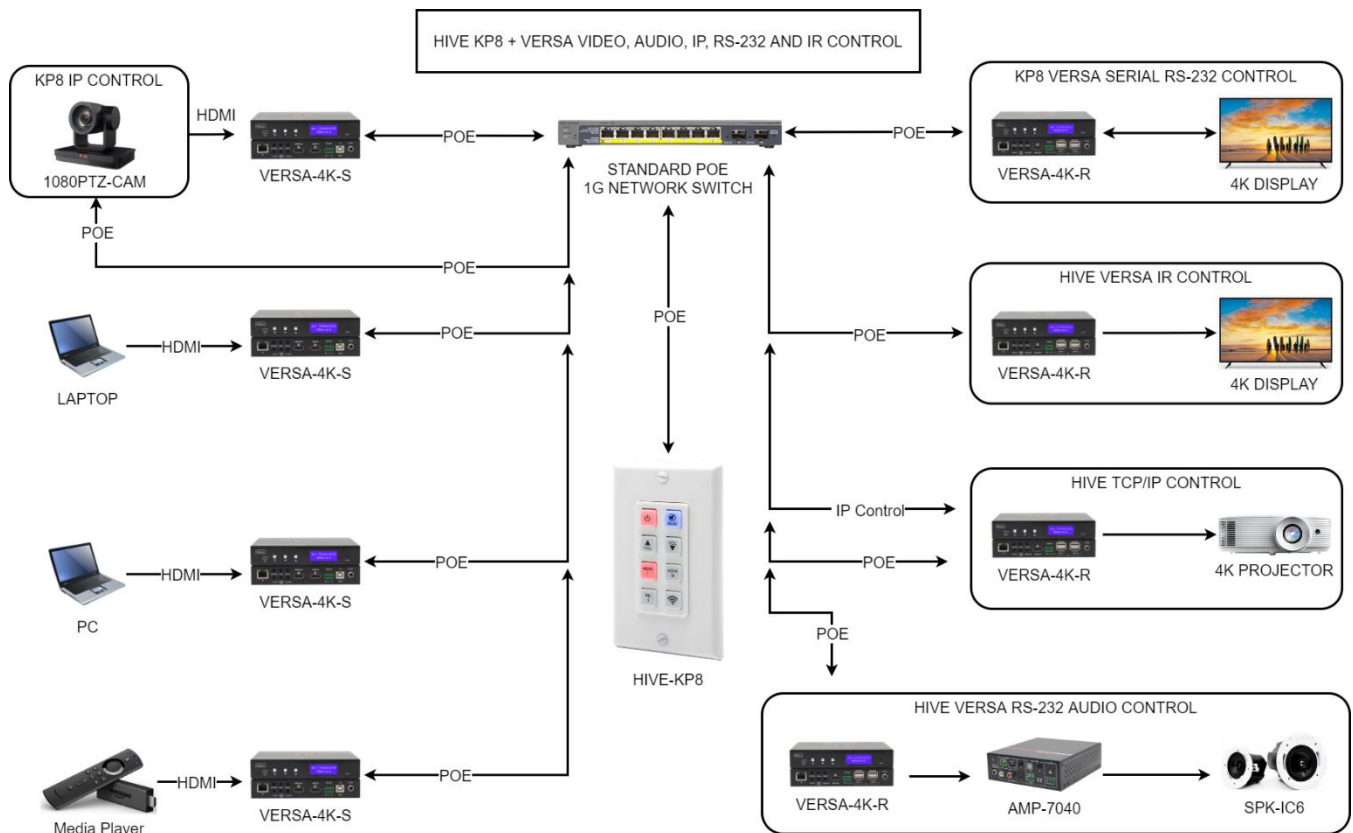
By itself, the HT-HIVE-KP8 is capable of IP control of a variety of devices such as our HT-CAM-1080PTZ, our HT-ODYSSEY and most displays and projectors. When used with our Hive Nodes it is capable of IR, RS-232 and Relay control for various devices such as our AMP-7040 as well as motorized screens and lifts.



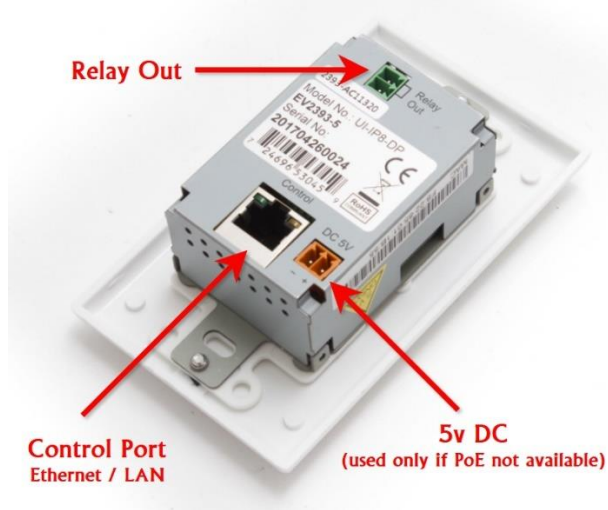
Configuration and Operation

HIVE KP8 AND VERSA-4K

As mentioned before, HT-HIVE-KP8 is capable of IP control of a variety of devices but when integrated with our AVoIP solution, Versa-4k, the Hive KP8 can control AV switching of the encoders and decoders and it can use Versa, just like a Hive-Node to control devices over IR or RS-232.



Configuration and Operation



Name	Description
DC 5V	Connect to the supplied 5V DC power supply if no PoE power is available from the network switch / router.
Control Port	Connect to a compatible LAN network switch or router using a CAT5e/6 cable. Power over Ethernet (PoE) is supported; this enables the unit to be powered directly from the 48V network switch / router without the need for the 5V DC power supply to be connected.
Relay Out	Connect to a device that supports DC 0~30V/5A relay trigger.

Discovery and Connecting

Hall Research Device Finder (HRDF) Software Tool

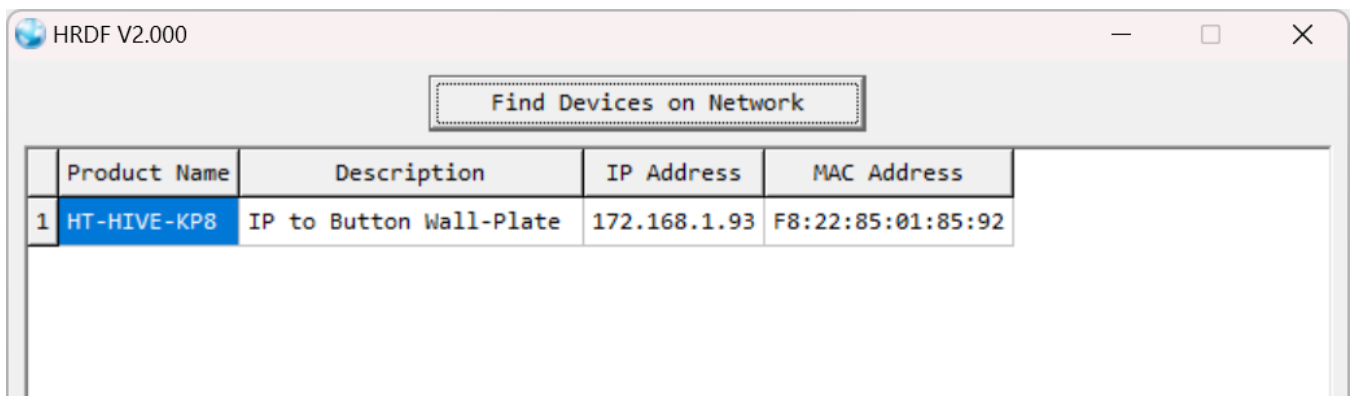
The default STATIC IP address as shipped from the factory (or after factory default reset) is 192.168.1.50.

If multiple keypads are connected to your network, or you are unsure of the IP addresses assigned to each keypad, free HRDF Windows® software is available for download on the product webpage. The user can scan the compatible network and find all the attached HIVE-KP8 keypads. Note that HRDF software may discover other Hall Technology devices on the network if present.

Finding the HIVE-KP8 on Your Network

The HRDF software can change the STATIC IP address or set the system for DHCP addressing.

1. Download the HRDF software from Hall Research website on a PC
2. Installation is not necessary, click on the executable file to run it. The PC may ask the user to grant permission for the application to access the connected network.
3. Click the “Find Devices on Network” button. The software will list all of the HIVE-KP8 devices found. Other Hall Research devices may also appear if connected to the same network as the HIVE-KP8.



4. Relay ports can be configured as individual SPST relays, but can also be logically grouped with other ports to create other common relay type configurations. Input ports are all individually configurable and support either voltage sensing or contact closure modes.
5. Double click on any device to view or modify its parameters.
6. Click the “Save” and then “Reboot” buttons after making changes.
7. Allow up to 60 seconds for the keypad to fully bootup after rebooting.

8. For example, you can assign a new Static IP address or set it to DHCP if you want the compatible LAN network to assign the address.
9. A hyperlink to the attached HIVE-KP8 is available to launch the webGUI in a compatible browser.

InfoFrom ✕

Product ID	0000
Product Name	HT-HIVE-KP8
MAC Address	F8:22:85:01:85:92
IP Address	<input type="text" value="172.168.1.93"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway IP	<input type="text" value="172.168.1.1"/>
DNS	<input type="text" value="0.0.0.0"/>
IP Mode	<input type="text" value="DHCP"/>
Web GUI Port	<input type="text" value="80"/>
Telnet Port	<input type="text" value="23"/>
I / D	SN:N/A
Firmware Version	v1.00
Hardware Version	PCB-2393*A
Description	IP to Button Wall-Plate
Web GUI	Web GUI

Discovery and Connecting

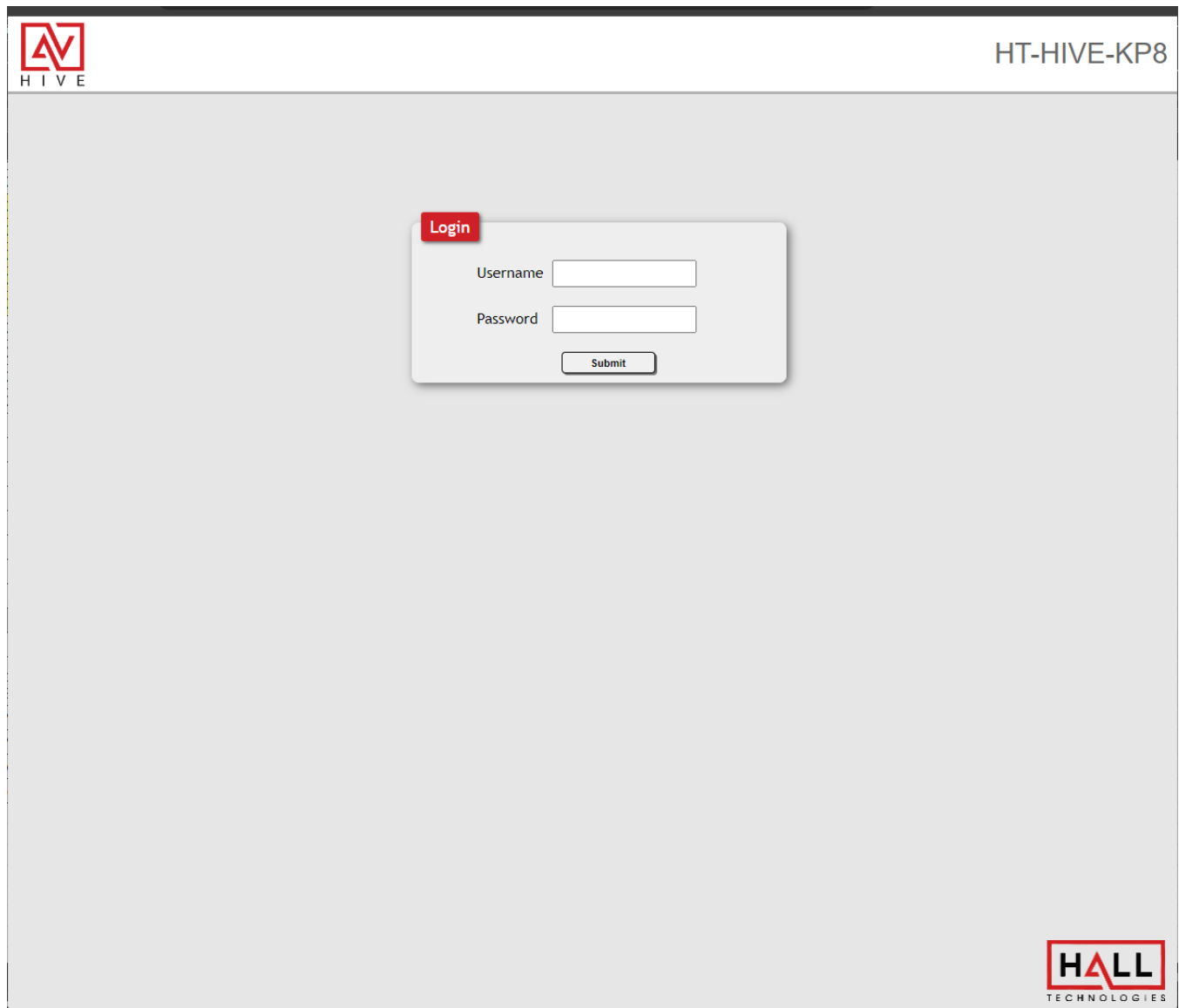
Device Webpage Login

Open a web browser with the device's IP address into the browser's address bar. The login screen will appear and prompts the user for a username and password. The page might take several seconds to load when first connecting. Most browsers are supported but it works best in Firefox.

Default Login and Password

Username: admin

Password: admin



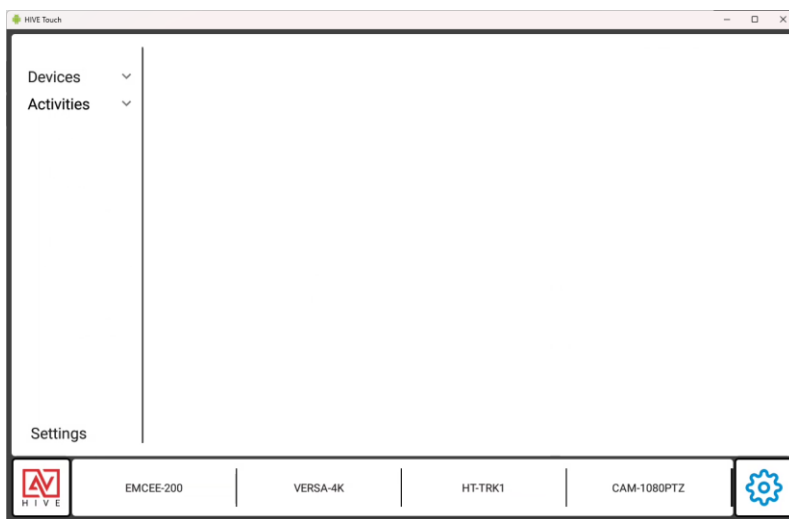
Devices, Activities and Settings

Hive AV: Consistent Programming User Interface

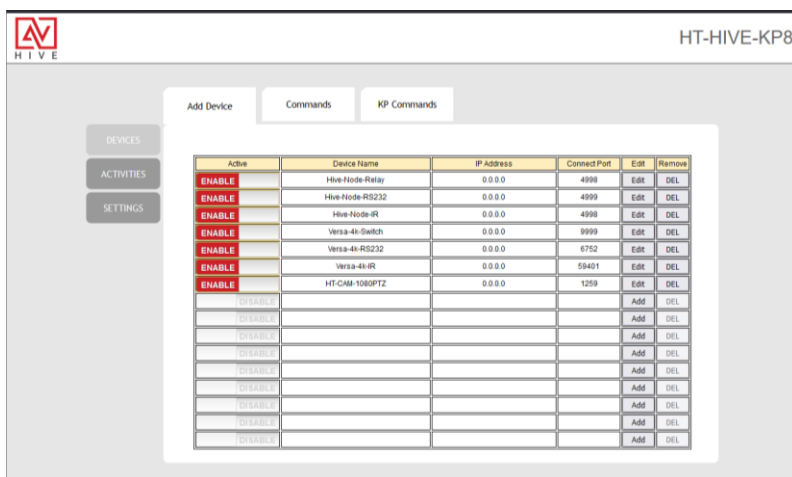
The Hive Touch and the Hive KP8 are designed to be easy to configure and set up. The menus for both are on the left and in order of operation. The intended workflow is the same for both:

1. Devices – Set up IP connections for devices to be controlled
2. Activities – Take the added devices and map them to buttons
3. Settings – Make and final configurations and maybe do a back up of the system

HIVE TOUCH WITH HIVE AV APP



HIVE TOUCH WITH HIVE AV APP



Devices, Activities and Settings

DEVICES – Add Device, Commands and KP Commands

It is recommended that you start with Devices first and the 3 tabs in order:

1. Add Device – Either update the Hall Devices IP Addresses or add new device connections.
2. Commands – Use the prebuilt commands for Hall devices or add new commands for devices that were added in the previous Add Device tab.
3. KP Commands – These are commands from the KP8 API that can change the button colors or control the relay. About 20 default commands are available, but if you need to you can add more from the API. A full list is in the Telnet Commands section, later in this manual.

The screenshot shows the HT-HIVE-KP8 web interface. On the left, there are three main navigation buttons: DEVICES, ACTIVITIES, and SETTINGS. The DEVICES button is highlighted. In the top right corner, the text 'HT-HIVE-KP8' is displayed. Below the navigation buttons, there are three tabs: 'Add Device', 'Commands', and 'KP Commands'. The 'Add Device' tab is active and contains a table with the following data:

Active	Device Name	IP Address	Connect Port	Edit	Remove
ENABLE	Hive-Node-Relay	0.0.0.0	4998	Edit	DEL
ENABLE	Hive-Node-RS232	0.0.0.0	4999	Edit	DEL
ENABLE	Hive-Node-IR	0.0.0.0	4998	Edit	DEL
ENABLE	Versa-4k-Switch	0.0.0.0	9999	Edit	DEL
ENABLE	Versa-4k-RS232	0.0.0.0	6752	Edit	DEL
ENABLE	Versa-4k-IR	0.0.0.0	59401	Edit	DEL
ENABLE	HT-CAM-1080PTZ	0.0.0.0	1259	Edit	DEL
DISABLE				Add	DEL
DISABLE				Add	DEL
DISABLE				Add	DEL
DISABLE				Add	DEL
DISABLE				Add	DEL
DISABLE				Add	DEL
DISABLE				Add	DEL
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DISABLE				Add	DEL
DISABLE				Add	DEL
DISABLE				Add	DEL
DISABLE				Add	DEL

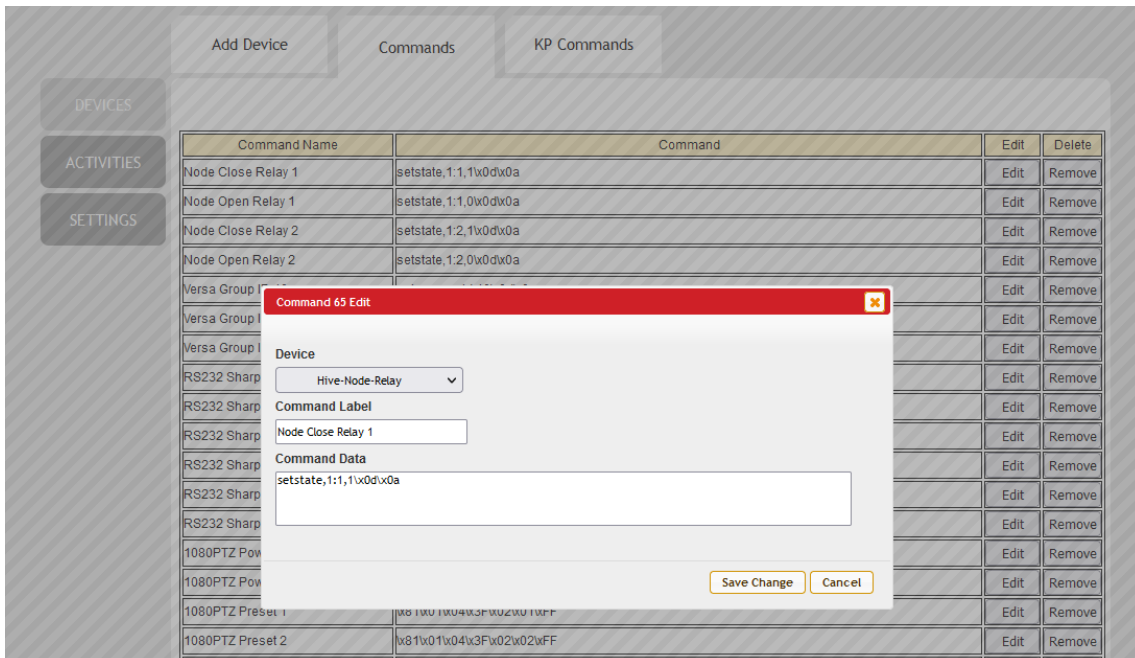
The Hall Technologies logo is visible in the bottom right corner of the interface.

Devices, Activities and Settings

Commands – Edit or Add

The HIVE-KP8 also comes with default commands for the default Hall devices or new commands can be added and connected to devices added in previous tab.

- Edit Commands – Common commands for the Hive Nodes, Versa-4k or the 1080PTZ Camera have been added by default. You might still want to double check that the Hall devices you updated on the previous are associated with the Commands by clicking on the Edit button and verifying the Device drop down.
- Add New Commands– If you want to add additional Hall devices commands then you can select Edit and update the existing ones and associate it with the device connection from the previous tab. If you want to add a new device command select Add and input the device API command the needed line ending.
- Hex and Delimiters – for ASCII commands simply input the readable text followed by the line ending which is typically a CR and LF (Carriage Return and Line Feed). The CR and LF are represented by a switch `\x0A\x0A`. If the command needs to be Hex, then you need to apply the same switch.
 - a. This is an example of an ASCII command with a CR and LF: `setstate,1:1,1\x0d\x0a`
 - b. This is an example of a VISCA HEX command: `\x81\x01\x04\x3F\x02\x03\xFF`
- IR Control – The Hive KP8 can be sent to control devices such as displays, either through the Versa-4k IR port or from our Hive-Node-IR. IR commands can either be learned using the Hive Node IR and the Node Learner utility or by going to the IR database at: <https://irdb.globalcache.com/> Simple copy and paste the commands in as is. No HEX switch is required.



Devices, Activities and Settings

KP Commands

The HIVE-KP8 has system commands for a variety of functions found under the KP Commands tab. The commands can be associated with button presses under Activities to trigger button colors, light intensity or to control the single relay on the back. More commands can be added here that are found in the full Telnet API at the end of this manual. To add new commands not Device connection needs to be set up. Simple select Add and under Type be sure to associate it with SysCMD.

Command Name	Command	Edit	Delete
LED RED 1 100%	LEDRED 1 100x0dx0a	Edit	Remove
LED RED 2 100%	LEDRED 2 100x0dx0a	Edit	Remove
LED RED 3 100%	LEDRED 3 100x0dx0a	Edit	Remove
LED RED 4 100%	LEDRED 4 100x0dx0a	Edit	Remove
LED RED 5 100%	LEDRED 5 100x0dx0a	Edit	Remove
LED RED 6 100%	LEDRED 6 100x0dx0a	Edit	Remove
LED RED 7 100%	LEDRED 7 100x0dx0a	Edit	Remove
LED RED 8 100%	LEDRED 8 100x0dx0a	Edit	Remove
LED BLUE 1 100%	LEDBLUE 1 100x0dx0a	Edit	Remove
LED BLUE 2 100%	LEDBLUE 2 100x0dx0a	Edit	Remove
LED BLUE 3 100%	LEDBLUE 3 100x0dx0a	Edit	Remove
LED BLUE 4 100%	LEDBLUE 4 100x0dx0a	Edit	Remove
LED BLUE 5 100%	LEDBLUE 5 100x0dx0a	Edit	Remove

Command 1 Edit

Type: SysCMD

Command Label: LED RED 1 100%

Command Data: LEDRED 1 100x0dx0a

Save Change Cancel

Devices, Activities and Settings

ACTIVITIES – Buttons 1, Buttons 2, Buttons Settings, Schedule

Once you have your DEVICES set up you need to associate the commands with button presses.

1. Buttons 1 – This tab allows you to set up macros for each button press
2. Buttons 2 – This tab lets you set up secondary commands for Toggle presses
3. Button Settings – This tab will set the button to either repeat or toggle between the commands in the previous tabs
4. Schedule – This allows you to set up scheduled triggering of macros set up for the buttons

The screenshot displays the HT-HIVE-KP8 control interface. At the top left is the HIVE logo, and at the top right is the device ID 'HT-HIVE-KP8'. A navigation sidebar on the left contains buttons for 'DEVICES', 'ACTIVITIES', and 'SETTINGS'. The main content area has four tabs: 'Buttons 1', 'Buttons 2', 'Buttons Settings', and 'Schedule'. The 'Buttons 1' tab is active, showing a grid of eight button configurations:

1 Power On	5 Power Off
2 Versa Source 1	6 Volume Up
3 Versa Source 2	7 Volume Down
4 Versa Source 3	8 Mute Toggle

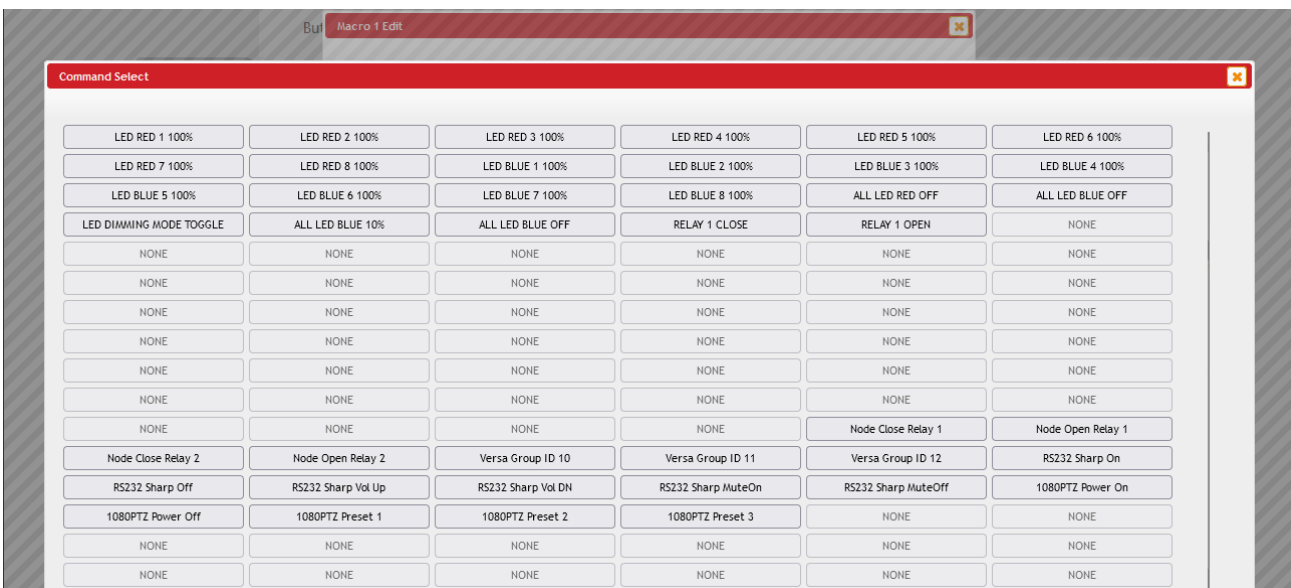
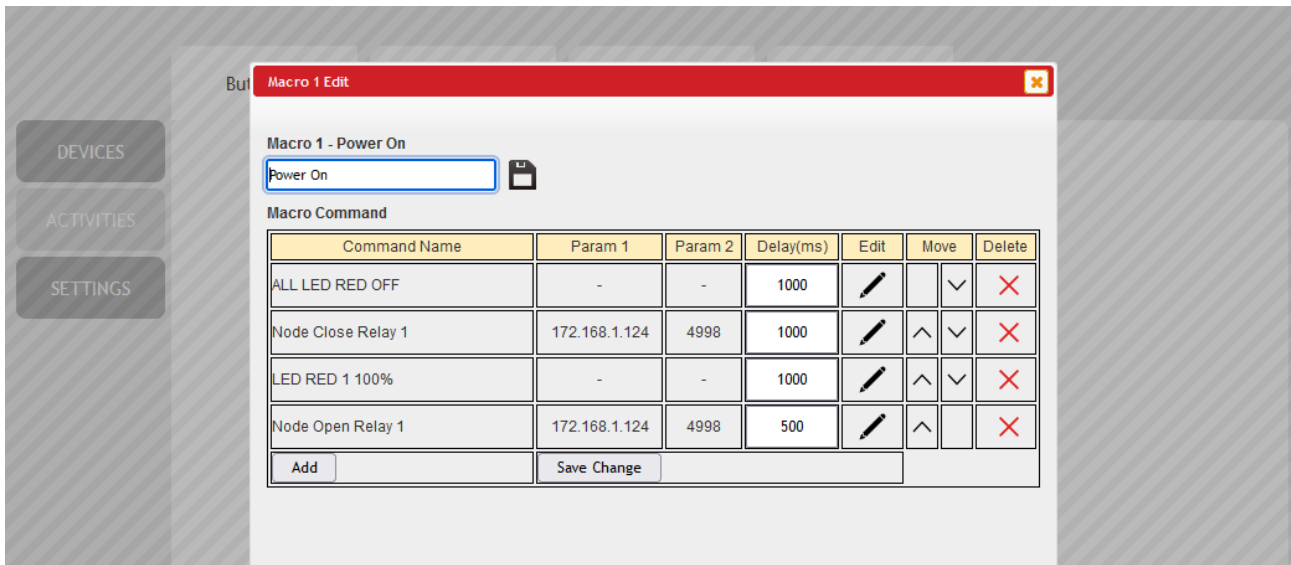
Below the grid is a 'Background Light' slider set to 100, and a 'Demo Mode' toggle switch set to 'OFF'. The HALL TECHNOLOGIES logo is in the bottom right corner.

Devices, Activities and Settings

Buttons 1 – Setting Up Macros

Some default macros have already been set up to help you understand how the structure looks and some common applications.

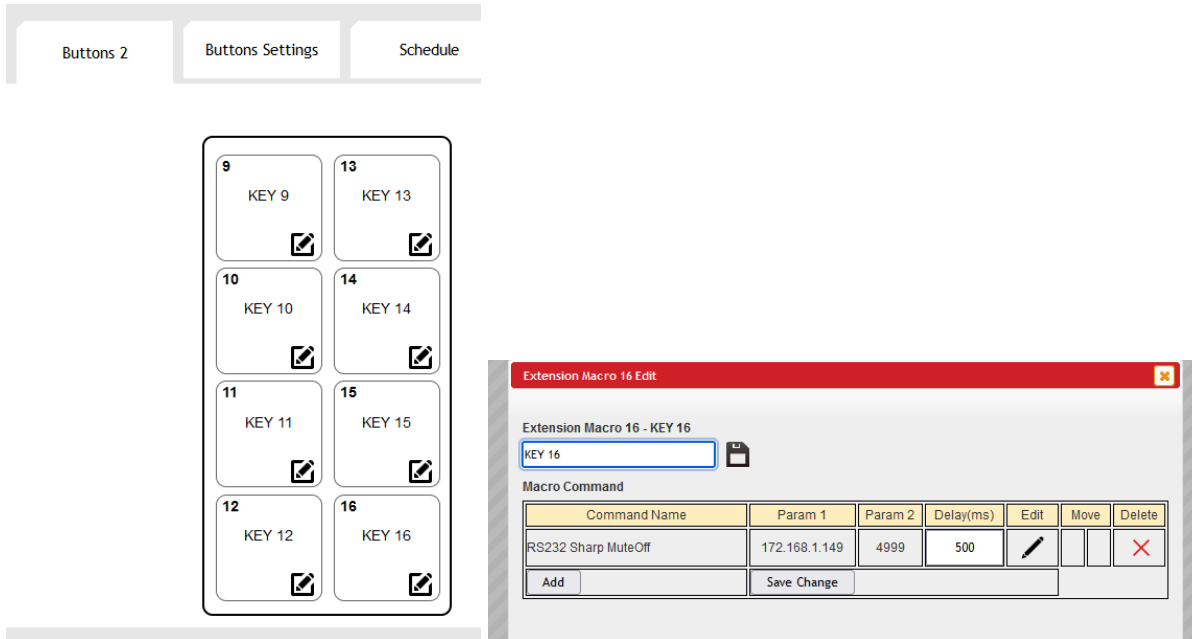
1. Click on the pencil icon in the corner of the button to edit the macro.
2. A pop up will appear and show some of the default commands to help guide you.
3. Press the Edit pencil next to the command and another pop up will appear and all you to select a command from the devices you set up earlier.
4. The commands occur in order, and you can add delays or move the command order.
5. Press Add to add new commands or delete remove any.



Devices, Activities and Settings

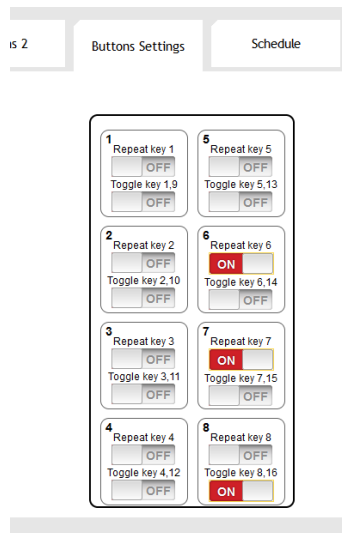
Buttons 2 – Setting Up Toggle Commands

The Buttons 2 Tab is for setting up a 2nd command for a Toggle. For example, you might want button 8 to Mute On when pressed the first time and Mute Off when pressed the second.



Button Settings – Setting Up Repeat or Toggle

Under this tab you can set a button to repeat a command like say Volume up or down. This way the user can ramp the volume by pressing and holding the button. Also, this is the tab where you would set the button to toggle between the two macros set in Buttons 1 and 2.



Devices, Activities and Settings

Schedule – Timed Trigger Events

This tab allows you to set up events to trigger the macros that were built in the previous tabs. You can either set a command to repeat or go out a specific time and date. You can associate the trigger to either Buttons 1 or Buttons 2 macros. Setting it to Buttons 2 will allow you to create a macro that is only sent out by the Scheduled trigger event.

The screenshot shows the 'Schedule' tab with two sections: 'Repeat' and 'Once'. Each section contains a table with columns for configuration and actions.

Active	Weekly	Hour	Minute	Second	Macro	Edit	Delete
		00	00	00		Edit	Remove
		00	00	00		Edit	Remove
		00	00	00		Edit	Remove
		00	00	00		Edit	Remove
		00	00	00		Edit	Remove
		00	00	00		Edit	Remove

Active	Month	Date	Hour	Minute	Second	Macro	Edit	Delete
	00	00	00	00	00		Edit	Remove
	00	00	00	00	00		Edit	Remove
	00	00	00	00	00		Edit	Remove
	00	00	00	00	00		Edit	Remove
	00	00	00	00	00		Edit	Remove
	00	00	00	00	00		Edit	Remove

The dialog box 'Schedule - Repeat 1 Edit' contains the following fields and options:

- Active:** A dropdown menu currently showing 'NONE ACTIVE'.
- Weekly:** A group of checkboxes for days of the week: Sun, Mon, Tue, Wed, Thu, Fri, Sat.
- Time:** A text input field containing '00:00:00'.
- Macro/Extension Macro:** A dropdown menu currently showing 'NONE'.
- Buttons:** 'Save Change' and 'Cancel' buttons at the bottom right.

Devices, Activities and Settings

SETTINGS – Network, System, Button Locks and Time

While it is recommended to start with the Device tab, before the Activities tab, you can configure the HIVE-KP8 at any time really, if needed.

Network

The Hive KP8 has two places to update the network settings, either from the HRDF Utility reviewed earlier in the manual or from the device Web Page, Network Tab under Settings. Here you can set the IP address statically or have it assigned one by DHCP. The Network Reset button will set it back to the default of 192.168.1.150.

The screenshot shows a web interface for configuring network settings. On the left, there is a vertical sidebar with three buttons: 'DEVICES', 'ACTIVITIES', and 'SETTINGS'. The 'SETTINGS' button is highlighted. At the top of the main content area, there are four tabs: 'Network', 'System', 'Button Locks', and 'Time'. The 'Network' tab is selected. Below the tabs, the title 'Network Settings' is displayed. The form contains the following fields and controls:

- IP Mode:** A dropdown menu with 'DHCP' selected.
- IP:** A text input field containing '172.168.1.93'.
- Netmask:** A text input field containing '255.255.255.0'.
- Gateway:** A text input field containing '172.168.1.1'.
- Buttons:** 'Save' and 'NetWork Reset' buttons are located at the bottom of the form.

Devices, Activities and Settings

SETTINGS - System

This tab has a lot of admin settings that you might find useful:

- Web User Settings – Change the default username and password
- Web Login Time out – This changes the time the it takes for the Web Page to go back to the login
- Download Current Configuration – You can download an XML with the device settings to either update manually or use a backup or use to configure other KP8s in similar rooms.
- Restore Configuration – This allows you to upload an XML that was Downloaded from another KP8 or from a backup
- Reset to Default – This will do a full **Factory Reset** of the KP8 and it will reboot with the default IP address of 192.168.1.150 and the default username and password of admin. A **Factory Reset** can also be done from the front of the unit, just below the USB, there is a pin hole. Stick a paper clip in the whole while the unit is powered on, and it will reset.
- Reboot – This is a simple way to reboot the unit if it is not operating properly.

The screenshot displays the web interface for the HT-HIVE-KP8 device. The top left corner features the HIVE logo, and the top right corner shows the device model 'HT-HIVE-KP8'. A navigation menu on the left includes 'DEVICES', 'ACTIVITIES', and 'SETTINGS'. The main content area is titled 'System' and contains several sections: 'Web User Setting' with input fields for Username, Old Password, New Password, and Confirm Password, followed by a 'Save' button; 'Web Login Timeout(Minute)' with a dropdown menu set to '60 min'; 'Download Current Configuration' with a 'Download' button; 'Restore Configuration' with a 'Browse...' button, the text 'No file selected.', and a 'Restore' button; 'Reset to Default' with an 'ALL Reset' button; 'Reboot the Unit' with a 'REBOOT' button; 'Firmware Version v1.0'; and 'Firmware Upgrade' with a 'Browse...' button, the text 'No file selected.', and an 'Upgrade' button.

Devices, Activities and Settings

SETTINGS – Button Locks

Here you can Enable/Disable the button locks. You can set a timer so it will lock and a code to unlock.

Network System Button Locks Time

DEVICES

ACTIVITIES

SETTINGS

Enabled

Disabled

UNLOCK

Inactivity Timer: 1 Min

Pattern Key 1: 1

Pattern Key 2: 1

Pattern Key 3: 1

Pattern Key 4: 1

Save

1	5
2	6
3	7
4	8

SETTINGS – Time

Here you can set the system time and date. The unit has an internal battery so this should be retained if the power goes out. It is important to set this correctly if you are using the Schedule feature under ACTIVITIES.

Network System Button Locks Time

DEVICES

ACTIVITIES

SETTINGS

System Time: 2015-01-03-Sat 00:36:27

Save

Daylight Saving Time

Use Daylight Saving

DISABLE

Start

Month: Jan Day: Thu Hour: 0 AM Day of Month: First

End

Month: Jan Day: Thu Hour: 1 AM Day of Month: First

Save

Troubleshooting

Help!

- Factory Reset – If you need to reset the HIVE-KP8 back to factory default settings you can navigate to the Settings > System tab and select ALL Reset under Reset to Default. If you can't get into the Device Webpage, then you can also reset the device from the front panel of the KP8. Remove the decora plate. Under the USB port there is a small pin hole. Take a paper clip and press while the unit is connected to power.
- Factory Defaults
 - IP Address is static 192.168.1.150
 - Username: admin
 - Password: admin
- Product Page – you can find the discovery Utility and additional documentation on the product page where you downloaded this manual.

HIVE-KP8 API

Telnet Commands (Port 23)

The KP8 is controllable by Telnet on port 23 of the devices IP address.

- The KP8 responds with “Welcome to Telnet.<CR><LF>” when the user connects to the Telnet port.
- Commands are in ASCII format.
- Commands are not case sensitive. Both uppercase and lowercase characters are acceptable.
- A single <CR> character terminates each command.
- One or more <CR><LF> characters terminate each response.
- Unknown commands respond with “Command FAILED<CR><LF>”.
- Command syntax errors respond with “Wrong command format!!<CR><LF>”

Command	Response	Description
IPCONFIG	ETHERNET MAC : xx-xx-xx-xx-xx-xx<cr><lf> Address Type : DHCP or STATIC<cr><lf> IP : xxx.xxx.xxx.xxx<cr><lf> SN : xxx.xxx.xxx.xxx<cr><lf> GW : xxx.xxx.xxx.xxx<cr><lf> HTTP PORT : 80<cr><lf> Telnet PORT : 23<cr><lf>	Shows the current network IP configuration
SETIP N,N1,N2 Where N=x.x.x.x (IP Address) N1=x.x.x.x (Subnet) N2=x.x.x.x (Gateway)	If a valid command is used, most likely there will be no response unless there was a command formatting error.	Set the static IP address, subnet mask and gateway simultaneously. There should be no ‘spaces’ between “N”, “N1” and “N2” values or a “Wrong command format!!” message will occur.
SIPADDR X.X.X.X		Set the devices IP address
SNETMASK X.X.X.X		Set the devices subnet mask
SGATEWAY X.X.X.X		Set the devices gateway address
SIPMODE N		Set DHCP or Static IP addressing
VER	<SPACE>-----> vx.xx <----- <CR><LF> (There is a leading space)	Show installed firmware version. Note there is a single leading space character in the response.
FADEFAULT		Set the device to factory defaults
ETH_FADEFAULT		Set IP settings to factory default

Command	Response	Description
REBOOT	If a valid command is used, most likely there will be no response unless there was a command formatting error.	Reboot the device
HELP		Show the list of available commands
HELP N where N=command		Show description of command specified
RELAY N N1 where N=1 N1= OPEN, CLOSE, TOGGLE	RELAY N N1<CR><LF>	Relay control
LEDBLUE N N1 where N=1~8 N1=0-100%	LEDBLUE N N1<CR><LF>	Individual button blue LED brightness control
LEDRED N N1 where N=1~8 N1=0-100%	LEDRED N N1<CR><LF>	Individual button red LED brightness control
LEDBLUES N where N=0-100%	LEDBLUES N<CR><LF>	Set the brightness of all blue LEDs
LEDREDS N where N=0-100%	LEDREDS N<CR><LF>	Set the brightness of all red LEDs
LEDSHOW N where N=ON/OFF/TOGGLE	LEDSHOW N<CR><LF>	LED demo mode
BACKLIGHT N where N=0-100%	BACKLIGHT N<CR><LF>	Set the max brightness of all LEDs
KEY_PRESS N RELEASE	KEY_PRESS N RELEASE<CR><LF>	Set the key press trigger type to "Release".
KEY_PRESS N HOLD	KEY_PRESS N HOLD<CR><LF>	Set the key press trigger type to "Hold".
MACRO RUN N	RUN MACRO[N] EVENT.<CR><LF> x x where x = the macro commands	Run the specified macro (button). The response also occurs if a button is pressed.
MACRO STOP	MACRO STOP<CR><LF>	Stop all the running macros
MACRO STOP N N=1~32	MACRO STOP N<CR><LF>	Stop the specified macro.

Command	Response	Description
DEVICE ADD N N1 N2 N3 where N=1~16 (Device slot) N1=X.X.X.X (IP Address) N2=0~65535 (Port Number) N3={Name} (Up to 24 characters)		Add TCP/TELNET device in Slot N The name may not contain any spaces.
DEVICE DELETE N where N=1~16 (Device Slot)		Delete the TCP/TELNET device in Slot N
DEVICE N N1 where N=ENABLE, DISABLE N1=1~16 (Device Slot)		Enable or Disable TCP/TELNET device in Slot N

Specifications

HIVE-KP-8	
Input Ports	1ea RJ45 (accepts PoE), 1ea Optional 5v Power
Output Ports	1ea Relay (2-pin terminal block) Relay contacts are rated for up to 5A current and 30 vDC
USB	1ea Mini USB (for updating firmware)
Control	Keypad Panel (8 buttons / Telnet / WebGUI)
ESD Protection	<ul style="list-style-type: none"> Human body model - $\pm 12\text{kV}$ [air-gap discharge] & $\pm 8\text{kV}$
Operating Temp	32 to 122F (0 to 50 °C) 20 to 90%, non-condensing
Storing Temp	-20 to 60 degC [-4 to 140 degF]
Power Supply	5V 2.6A DC (US/EU standards/ CE/FCC/UL certified)
Power consumption	3.3 W
Enclosure Material	Housing: Metal Bezel: Plastic
Shipping	Dimensions Model 2.75"(70mm) W x 1.40"(36mm) D x 4.5"(114mm) H (case) 10"(254mm) x 8"(203mm) x 4"(102mm)
	Weight Device: 500g (1.1 lbs.) Shipping: 770g (1.7 lbs.)



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