



OMNICON DUO Pi V.2 & MONO Pi INSTRUCTIONS

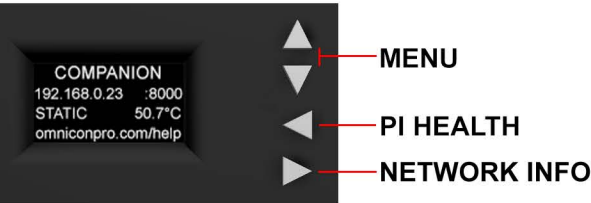
Omnicon DUO Pi V.2 and MONO Pi introduced all the important settings built right into a menu system on an onboard OLED display. You can switch between Companion and Satellite directly in the menu. You can switch between DHCP and STATIC IP, and you can set your own static IP, gateway, and subnet mask without any knowledge of how to program the Raspberry Pi. You can also reboot and shut down the system. In this guide, I will walk you through the navigation of the menu.

MAIN DISPLAY

When you first boot up your Omnicon Duo or Mono Pi, you will see the default display on the OLED. This display will always give you the most important info. It will let you know if you're running Companion or Satellite, if you're set to DHCP or Static, it will tell you your IP address and port number needed for control, Pi temperature, and at the bottom, it will give you a web address to quickly get back to this guide. No matter where you are in the menu, the default display will return after 20 seconds of no user input and will restore after you change menu options. Below are the different default displays you will see. Note that when Companion is running, it gives you port :8000, and when Satellite is running, it gives you port :9999. This is so you know exactly what to type in your browser to access the web GUI for either system. To access Companion, just type into a web browser on a computer or tablet on the same network "YOURIP:8000". You will see your normal Companion configuration page. To add one or more Satellite units, follow the same process but with "YOURIP:9999". DO NOT change the port number in the GUI for Satellite, just enter the IP address of your Companion you want to connect to and hit save.

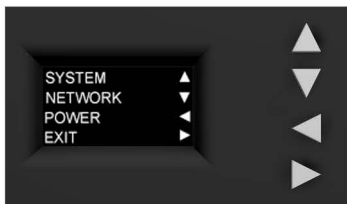


When your omnicon is showing the main display, pressing either the up or down arrow will enter the main menu. You can press the left arrow to show a Pi stats display for 30 seconds. This will tell you the Pi temperature, CPU, RAM, and power draw. If you press the right arrow, you will see a network status display. It will show you the current IP, subnet mask, gateway, and DNS. Both of these menus will automatically go away after 30 seconds, or you can press any key to restore the main display. See below for button functions.



MAIN MENU

Pressing either the up or down arrow when in the main display will take you into the main menu. Here you will see **SYSTEM**, **NETWORK**, **POWER**, **EXIT**. Note that in the menus, the arrows do not navigate up, down, left, and right, but correspond to a direct input that is indicated on the display to the right of the menu option. If you press up, you will immediately enter the system menu. If you press down, you will immediately enter the network menu. This is the case in all menus except when changing your static IP, where the arrows will adjust the octets of the IP, subnet mask, and gateway.



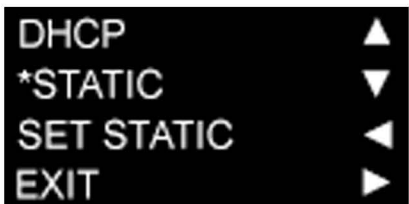
SYSTEM MENU

The system menu is where you will select which system you want to run. Simply press the up arrow to run Companion, and the down arrow to run Satellite. Pressing the corresponding arrow will immediately launch the application, and you will see your stream decks change within a few seconds. There will be an asterisk (*) next to whichever application is currently running on your omnicon. You do not have to set this every time you boot up; it will remember your previous system and IP settings when shut down.



NETWORK MENU

The network menu is where you will select if you want to run DHCP or STATIC IP. There will be an asterisk (*) next to whichever is currently active. Simply select up to activate DHCP or down to activate STATIC. If you press left, you will enter a new menu to set your static IP.



SET STATIC MENU

When you enter the Set Static menu, you will see options for IP, Subnet, and Gateway. Select whichever you want to change. See the next page for adjusting the IP.



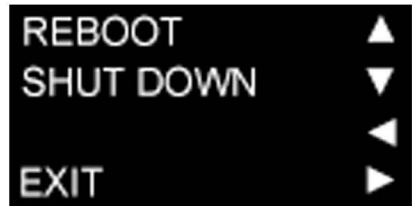
SETTING STATIC IP

Setting IP addresses is the only time your menu controls change a little bit. When you enter any of the three menus to edit your IP, you will see brackets blinking around the octet being edited. You will use the left/right arrows to select which octet you want to change, and use the up/down arrows to increase or decrease the values. Pressing up/down one time will change the number by +1 or -1, and holding down up/down will increase your values more rapidly by +10 or -10. To save your changes, hold down the left button for 1 second. To cancel your changes and return to the SET STATIC menu, hold the right arrow down for 1 second. You may notice the brackets move once when you're holding down to apply or cancel. This is normal and won't affect anything.



POWER MENU

When you enter the power menu, you will only see two options: Reboot and Shut Down. When you select either of them, you will be asked to confirm or cancel. PLEASE NOTE: if you shut down the omnicon, there is no power button to boot it up. Currently, the only way to boot up the omnicon is to remove and restore power.



UPDATING COMPANION AND SATELLITE

The only reason you may need to access the Pi not through the built-in menu structure is for updating or downgrading Companion or Satellite. To do this, you will need your Omnicon Duo or Mono Pi on a network with internet access. The easiest way is to connect to a router using DHCP. You will also need a computer on the same network. Below are the steps to access the Pi via terminal.

- On a Mac, open Terminal. On a PC, open Command Prompt.
- Enter this command to log into the Raspberry Pi: **ssh omnicon@companionpi.local**
- The first time you connect, you will likely get one or both of the following prompts...
- If you get Prompt #1, just type “**yes**” and hit enter. If you get Prompt #2, follow the instructions below. If you don’t get either prompt, skip to page 5.

PROMPT #1

The authenticity of host 'companionpi.local (fd15:423d:2ea8:f74d:c2f3:c2e4:5e4e:a706)' can't be established.
ECDSA key fingerprint is SHA256:QdZvkMg4RiOt2UibPIFEW72MXtrFQjtgtDP2IuzseFA.
Are you sure you want to continue connecting (yes/no/[fingerprint])?

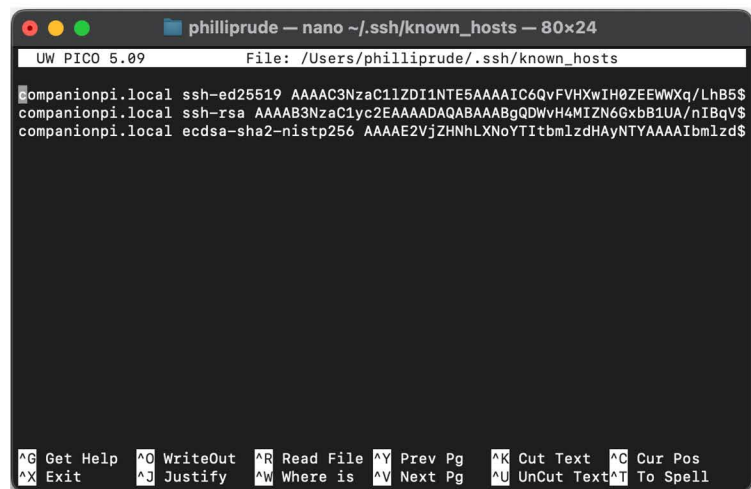
PROMPT #2

```
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@  WARNING: REMOTE HOST IDENTIFICATION HAS CHANGED!  @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
IT IS POSSIBLE THAT SOMEONE IS DOING SOMETHING NASTY!
Someone could be eavesdropping on you right now (man-in-the-middle attack)!
It is also possible that a host key has just been changed.
The fingerprint for the ED25519 key sent by the remote host is
SHA256:y1DPEtisNZQoIPcQIZTRr8H3s8p7zafcC67zP86L7mk.
Please contact your system administrator.
Add correct host key in /Users/philliprude/.ssh/known_hosts to get rid of this message.
Offending ECDSA key in /Users/philliprude/.ssh/known_hosts:3
Host key for companionpi.local has changed and you have requested strict checking.
Host key verification failed.
```

If you get Prompt #2 when logging into the Raspberry Pi, follow the steps below.

- In Terminal, enter the command: **nano ~/.ssh/known_hosts**
It should open a window similar to the image below.
- Use the keyboard shortcut **Control+K** to cut text on all lines that say companionpi.
- Use the keyboard shortcut **Control+O** to save.
- Use the keyboard shortcut **Control+X** to exit.

Now you can go back to the beginning and enter **ssh omnicon@companionpi.local**



```
philliprude — nano ~/.ssh/known_hosts — 80x24
UW PICO 5.09      File: /Users/philliprude/.ssh/known_hosts

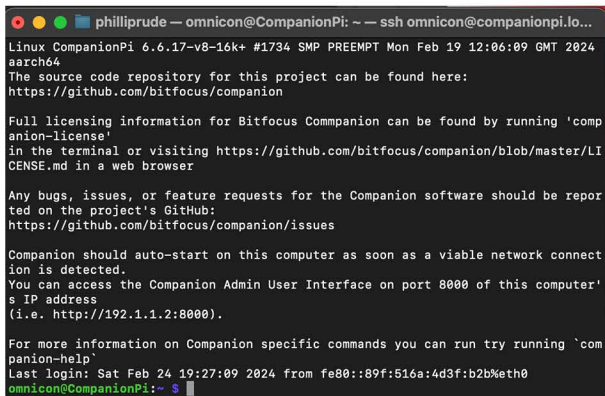
companionpi.local ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIC6QvFVHXwIH0ZEEWwXq/LhB5$
companionpi.local ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQgODWvH4MIZN6GxbB1UA/nIBqV$
companionpi.local ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzd$

^G Get Help  ^O WriteOut  ^R Read File  ^Y Prev Pg  ^K Cut Text  ^C Cur Pos
^X Exit      ^J Justify   ^W Where is  ^V Next Pg  ^U UnCut Text ^T To Spell
```


UPDATING COMPANION AND SATELLITE CONTINUED

Now that you've cleared the prompts, which should only happen once on any computer, you can move forward with logging into the Pi to update Companion and Satellite.

In Terminal, if you haven't already done so, enter: **ssh omnicon@companionpi.local**
It will ask you to enter a password. The password is all lowercase: **omnicon**
Hit enter and you should now be connected to the Pi. Your terminal should look similar to the image below.



```
philliprude — omnicon@CompanionPi: ~ — ssh omnicon@companionpi.lo...
Linux CompanionPi 6.6.17-v8-16k+ #1734 SMP PREEMPT Mon Feb 19 12:06:09 GMT 2024
aarch64
The source code repository for this project can be found here:
https://github.com/bitfocus/companion

Full licensing information for Bitfocus Companion can be found by running 'comp
panion-license'
in the terminal or visiting https://github.com/bitfocus/companion/blob/master/LI
CENSE.md in a web browser

Any bugs, issues, or feature requests for the Companion software should be repor
ted on the project's GitHub:
https://github.com/bitfocus/companion/issues

Companion should auto-start on this computer as soon as a viable network connect
ion is detected.
You can access the Companion Admin User Interface on port 8000 of this computer'
s IP address
(i.e. http://192.1.1.2:8000).

For more information on Companion specific commands you can run try running 'com
panion-help'
Last login: Sat Feb 24 19:27:09 2024 from fe80::89f:516a:4d3f:b2b%eth0
omnicon@CompanionPi:~$
```

From here, you can enter either command depending on what you want to update.
To update Companion, enter: **sudo companion-update**
To update Satellite, enter: **sudo satellite-update**
Run either of these commands and follow the prompts that show up in Terminal.
You will have options to update to the latest stable, latest beta, or a specific version.
Use your up/down keys to navigate and select what you want to upgrade or downgrade to,
and hit enter to select. When your upgrade is complete, type into Terminal: **sudo reboot** to
reboot your Omnicon. After you reboot, use your console like normal.

PLEASE NOTE: This will **ONLY** work if your console is connected to the internet.

Thats it! Enjoy your Omnicon!

If you have questions, please ereach out via [Omniconpro.com](https://omniconpro.com)