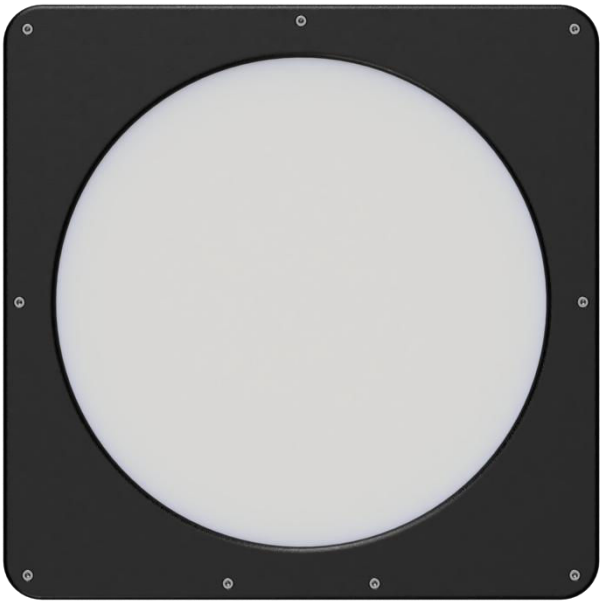
FlatMaster Wi-Fi

FlatMaster 150L Wi-Fi



FlatMaster 250L Wi-Fi



QUICK INSTALATION AND USE GUIDE

Version 1.0

02-OCT-2025

VERSION HISTORY

Version #	Implemented By	Revision Date	Reason
1.0	George Karantzalos	2-Oct-25	Initial document

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INTRODUCTION

Thank you for purchasing Pegasus Astro FlatMaster

1.1 PURPOSE

This is the updated version of our Pegasus Astro FlatMaster, our slimline, LED, flatfield panel with **new Wi-Fi capabilities**. It provides a uniform source of illumination for up to 6-inch (FlatMaster 150L) and up to 10-inch telescopes (FlatMaster 250L) and produces high-quality flat field frames for astrophotography and photometric captures.

1.2 IN THE BOX

The box contains the following items

PEG-FLTMSTR150L-WiFi

- 1 x FlatMaster 150L
- 1 x USB cable (1.8m)
- 4 x stand-offs (3 and 1 spare)
- Carry bag

PEG-FLTMSTR250L-WiFi

- 1 x FlatMaster 250L
- 1 x USB cable (1.8m)

DEVICE DESCRIPTION

2.1 DESIGN OVERVIEW

2.2 FEATURE LIST

- **Dimmable:** adjustable brightness from 0 to 100%
- **Wide brightness range:** The FlatMaster 150L/250L offers an extensive brightness range, enabling it to reach exceptionally high levels that are ideal for short exposure times—such as 2 to 3 seconds at f/7—when used with 3nm narrowband imaging filters. At the same time, it can be dimmed to very low brightness settings, making it possible to capture flawless flat frames even with extremely fast telescopes.
- **Manual button:** The FlatMaster has a small push button that sets different gradual levels of brightness. In case you would like to manually operate the FlatMaster, no problem, just click the push button to control the brightness.
- **One cable operation:** Only one USB type B cable provides power and control of your panel.
- **Carry bag:** A carry bag is in the package allowing you to easily transfer the FlatMaster any location. (FlatMaster 150L only)
- **Wi-Fi support:** New FlatMaster is Wi-Fi enabled, allowing you to control and monitor panel brightness remotely from your mobile phone. Notably, you can operate it simultaneously with USB or Wi-Fi, providing flexibility and ease of use for astronomers, all from the convenience of your smartphone.
- **Wide compatibility:** The FlatMaster device is fully compatible with ASCOM Alpaca, classic ASCOM, and INDI protocols.

OPERATING INSTRUCTIONS

3.1 INSTALATION

- Mount the 4 plastic standoffs on the top screws of the FlatMaster 150L.
- Adjust the standoffs bases on your telescope's hood diameter.
- Plug the USB cable to USB Socket at the back of the panel. A single cable provides power and control of your panel.
- Plug the other USB side into your computer or into a power bank.
- FlatMaster 150 /250 will instantly turn on at its maximum brightness. (default luminance profile)

3.2 USE

Manual use

- Click the button to select five (5) dimming levels

Computer use

- Download and Install Unity platform https://pegasusastro.com/release/unity/setup/PegasusAstroUnityPlatform.exe

Dashboard use

- FlatMaster has a Wi-Fi Access point (hotspot) at 2.4 GHz. The hotspot is enabled by default. The SSID name is compiled from the prefix FlatMaster_ and the unique device ID e.g. 0043c88c.
- Connect with your device to the FlatMaster Wi-Fi hotspot. The default password is 12345678
- Upon connecting to the FlatMaster hotspot you can conveniently access it from any web browser by simply typing "flatmaster.local" in the address bar.

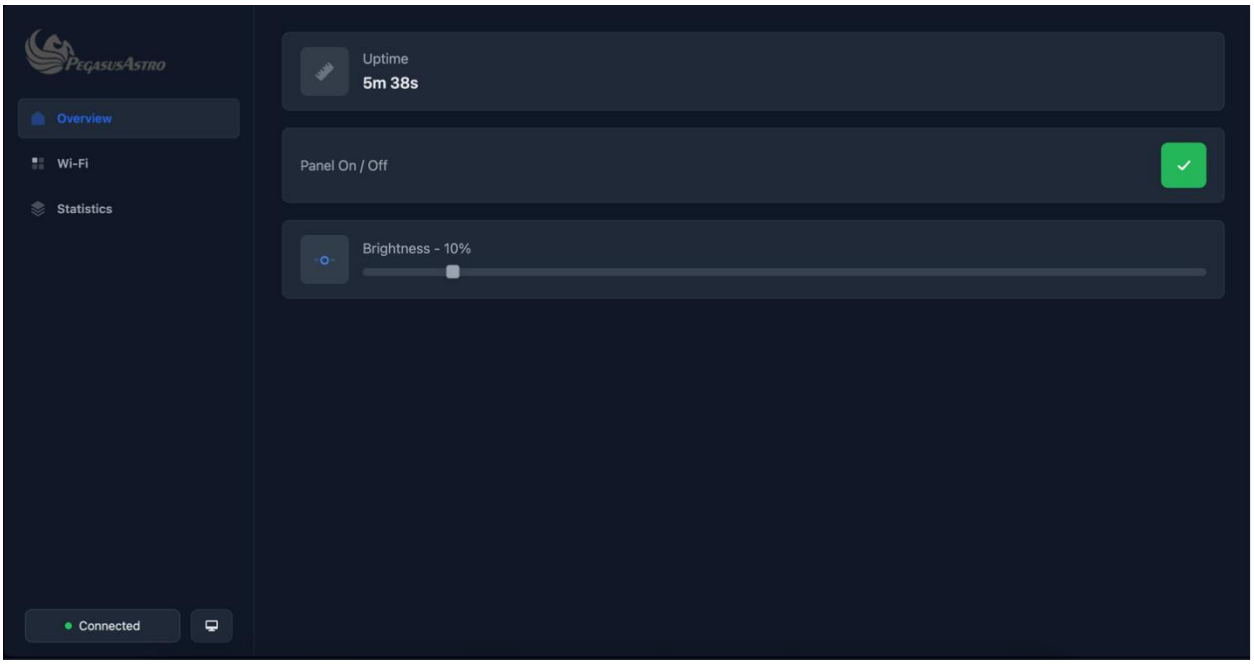
For security reasons, the web dashboard has a simple authentication process and requires a username and a password upon login. The dashboard password is always the Wi-Fi hotspot password.

Default credentials are:

Username admin	admin
Password (always same as hotspot password)	12345678

This feature is operating system-independent and functions seamlessly alongside USB control.

The web dashboard offers full control of the device.



TECHNICAL SPECIFICATION

Material	Strong black ABS plastic
Type	Led Light Panel (White)
Weight	350 FlatMaster 150L 840gr FlatMaster 250L
Usable diameter of circle	150mm (5.9”) FlatMaster 150L 250mm (10”) FlatMaster 250L
Manual Push Button	Different brightness levels
Power requirements	5V DC provided by USB mini cable (500mA max current)
Size	8mm Thickness
Wi-Fi Capabilities	Access Point or Client (at 2.4GHz)

SUPPORT

For any questions, feedback and support please contact: support@pegasusastro.com

RETURNS AND SERVICE POLICY

Device is covered by two (2) years warranty

For detailed information on returns and service policy follow the link below

https://pegasusastro.com/returns/

Designed and assembled in Greece