

INSPIRE - 100

An Emergency Ventilator Device



Firmware Upgrade Manual



Table of Contents

Introduction	3
Equipment needed for a System Firmware Installation	4
Overall Firmware Installation Process	5
Download and Install App	6
Launch App.....	7
Firmware Installation Steps	8
Figure 1: INSPIRE-100 USB Ports.....	4
Figure 2: Equipment Needed	4
Figure 3: Overall Firmware Installation Process	5
Figure 4: Installing Firmware Upgrade App	6
Figure 5: Launch Firmware App	7
Figure 6: Firmware Installation Steps	8

Introduction

The INSIPRE-100 system uses two micro-controllers – a MASTER and a SLAVE. The system comes pre-loaded with the latest firmware for both. The firmware is version controlled and both controllers must have the same version number installed.

Over time, as the firmware evolves, there is a need to upgrade the firmware for systems already deployed in the field. INSPIRE-100 provides an App (WINDOWS and MACOS) to update the system firmware using your laptop and an internet connection.

Equipment needed for a System Firmware Installation

1. An internet-enabled WINDOWS or MAC laptop.
2. A USB to Micro-USB cable.
3. The target INSPIRE-100 system. The two USB ports on INSPIRE-100 system are located at the rear of the system as shown in the figure below.

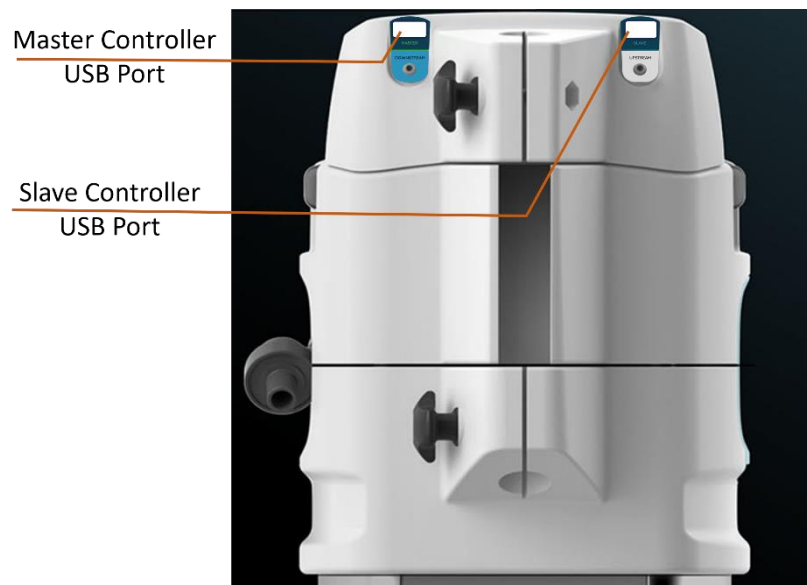


Figure 1: INSPIRE-100 USB Ports



Figure 2: Equipment Needed

Overall Firmware Installation Process

The overall firmware upgrade process entails two steps.

1. Preparation
Download and install the Firmware Upgrade App. This is one-time activity. Once installed, the App can be used at any time to upgrade the system firmware.
2. Firmware Upgrade
Launch the Firmware Upgrade App and follow step-by-step instruction to upgrade the system firmware.

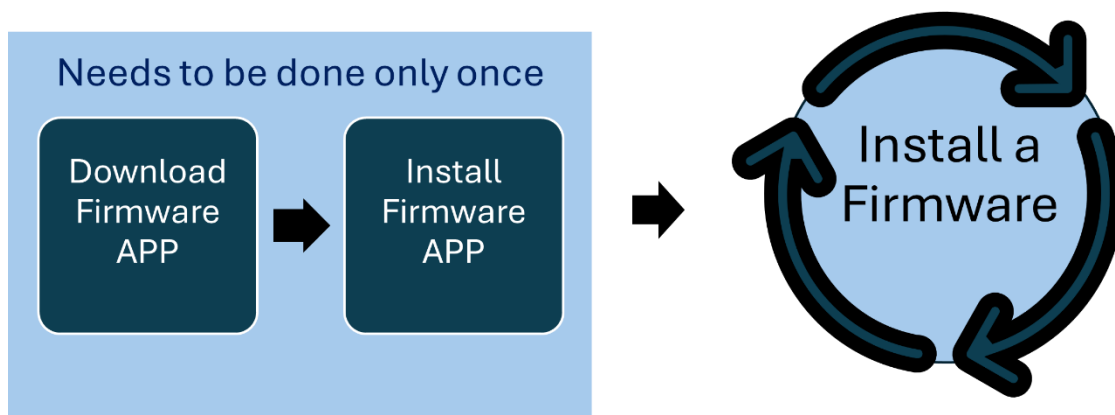


Figure 3: Overall Firmware Installation Process

Download and Install App

Use your browser to visit <https://tekmedika.com/inspire-100>

This is main portal for all INSPIRE-100 Web Applications.

Click on “Install Firmware Upgrade App” and follow the displayed steps.
The App is now installed and ready for use.

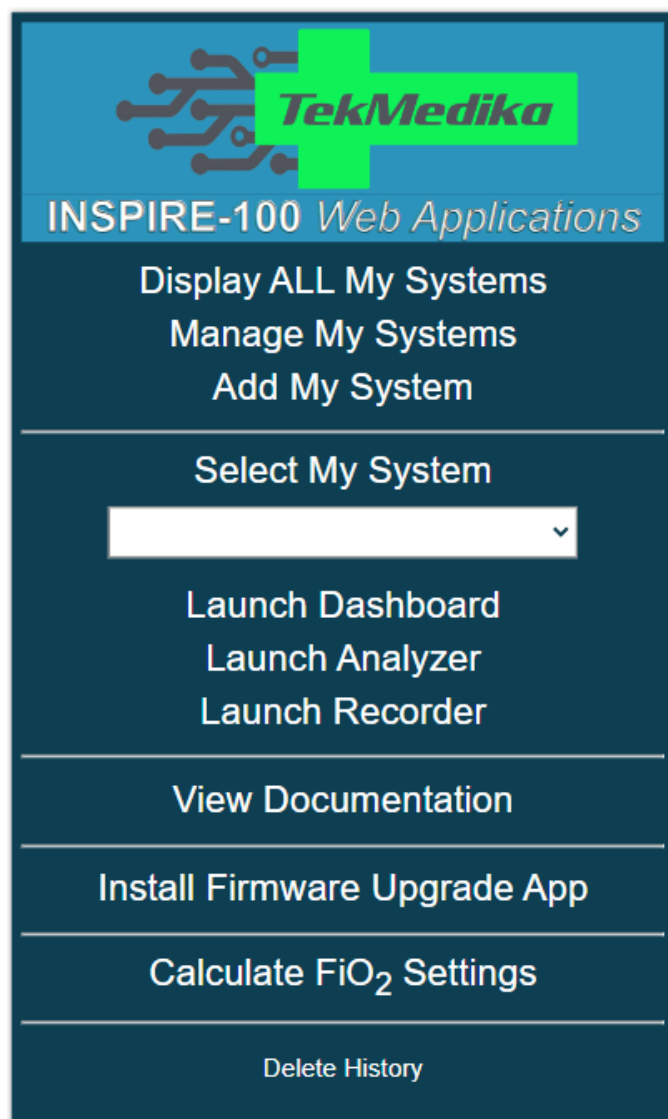


Figure 4: Installing Firmware Upgrade App

Launch App

Launch the previously installed Firmware Upgrade App when you are ready to install the latest Firmware version.

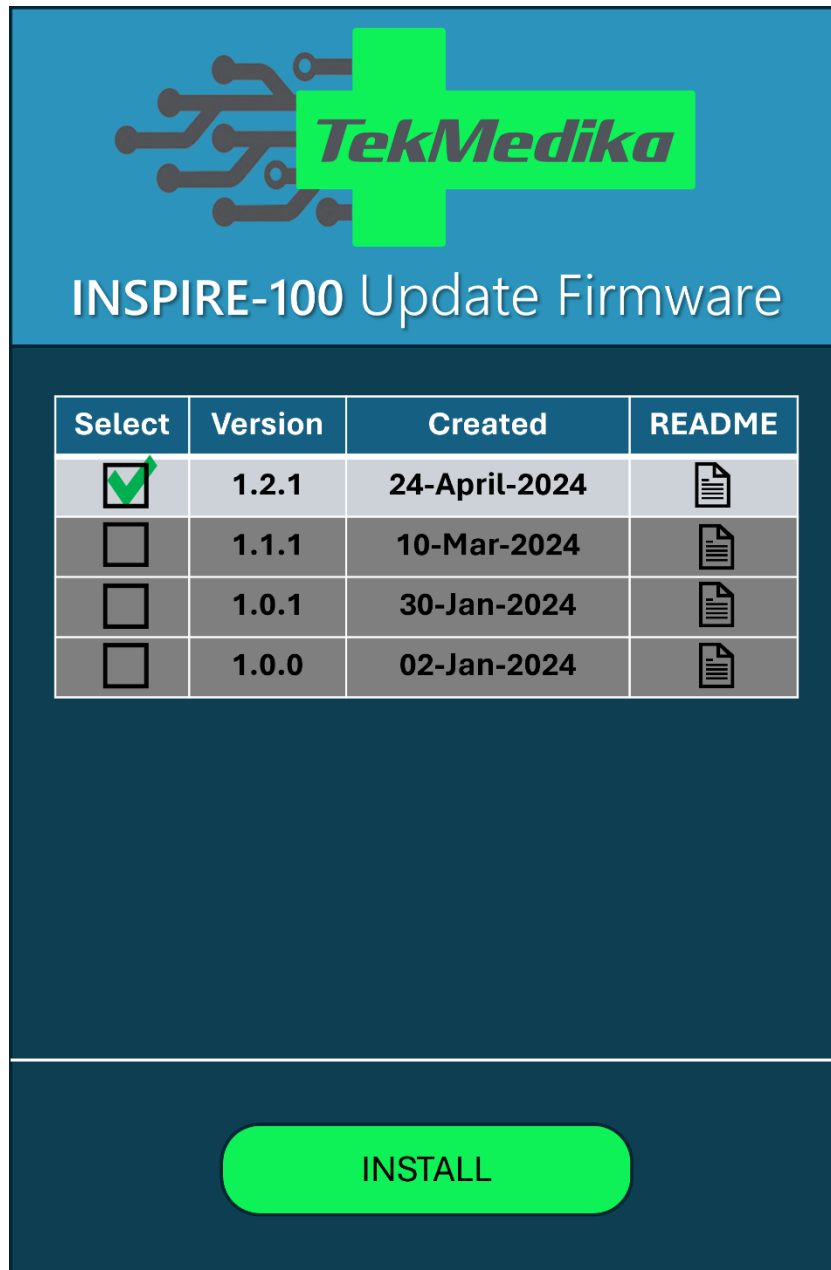


Figure 5: Launch Firmware App

By default, the latest firmware version is selected for installation. The previous versions are also displayed but they are password protected.

Click INSTALL to start the firmware installation process.

Firmware Installation Steps

The user must follow the directions as displayed by the App. The steps are shown below as a series of numbered screenshots. All that needs to be done is plug/unplug the USB cable at the right time and click NEXT.



Figure 6: Firmware Installation Steps