

# INSPIRE - 100

An Emergency Ventilator Device



## ***Firmware Upgrade Manual***





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## 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 may be a need to upgrade the firmware for systems already deployed in the field. INSPIRE-100 provides an App to update the system firmware using your laptop and an internet connection.

## Equipment needed for a System Firmware Installation

1. An internet-enabled WINDOWS laptop.
  - a. Operating System: Windows 10 or later
  - b. RAM: At least 2 GB
  - c. Storage: At least 100 MB of free disk space
  - d. USB Port
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.

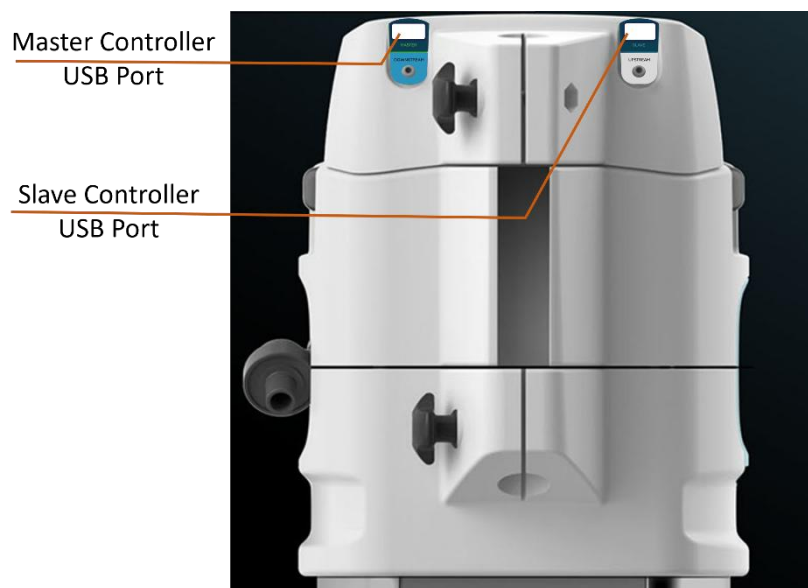


Figure 2: INSPIRE-100 USB Ports



Figure 1: Equipment Needed

## Overall Firmware Installation Process

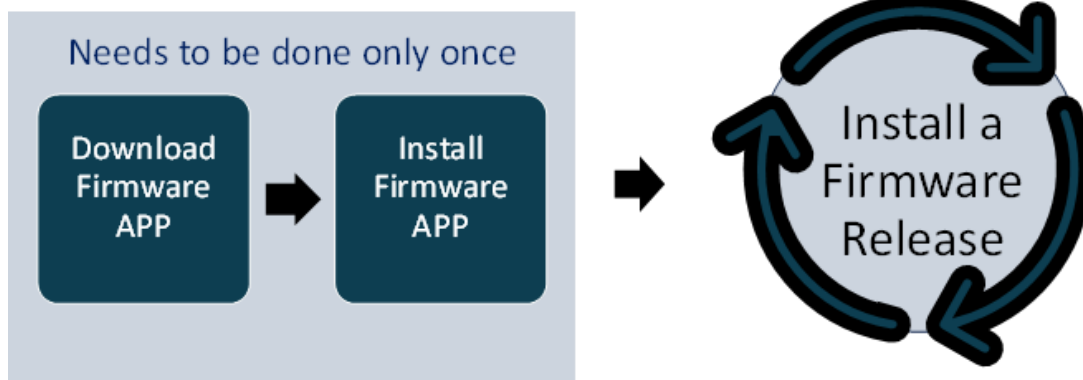
The overall firmware upgrade process entails two steps.

### 1. Preparation

Download and install the Firmware Installer App. This is one-time activity. Once installed on your laptop, the App can be used at any time to upgrade the system firmware.

### 2. Firmware Upgrade

Launch the Firmware Installer 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 “Firmware Installer” and follow the displayed steps to install the App.

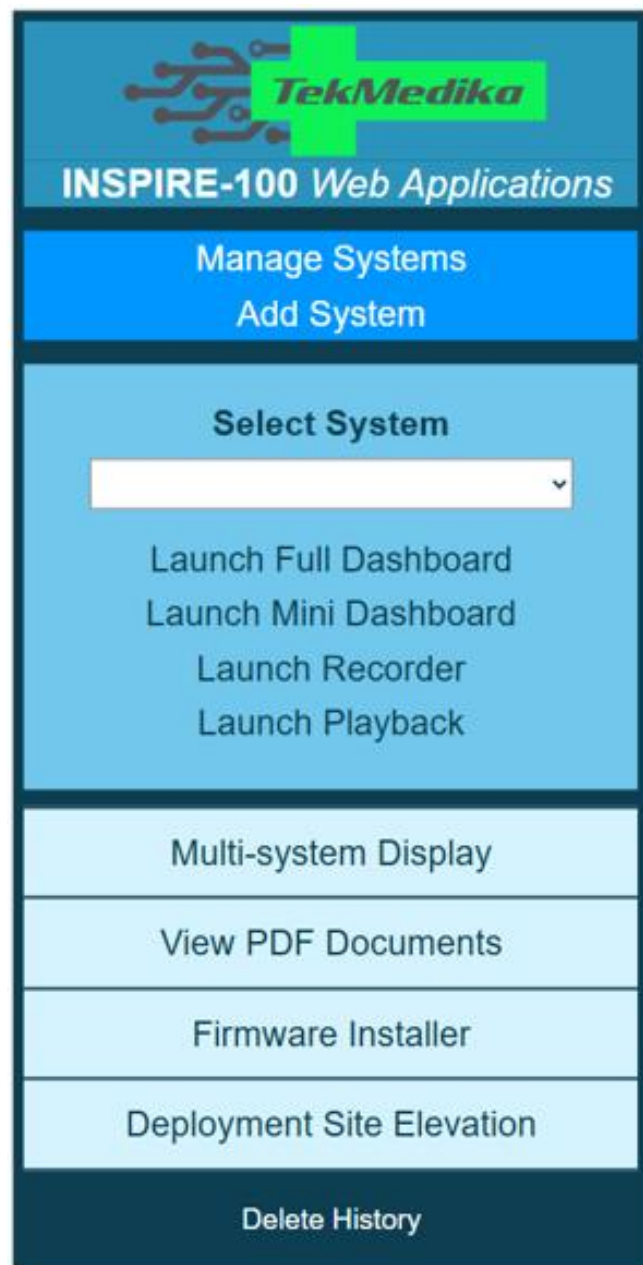


Figure 4: Installing Firmware Installer App

## Install App

Step 1: Download the Installer using the main Portal.

Step 2: Install the Application

- Run the downloaded .exe file.
- Follow the on-screen instructions to complete the installation process.
- Once installed, the application is ready to use.

## Install Firmware

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

Step 1: Launch the Application

- Open the installed application from the Start Menu or Desktop shortcut.

Step 2: Optional Admin Login

- The Admin Login button on the top right is only for qualified personnel.
- Customers do not need to login to use the App.
- Proceed without logging in.

Step 3: Select Firmware Version from the dropdown list.

- Regular users can only install the latest version.
- Service Technicians users can select any version.

Step 4: Install Firmware on Master Port

- Connect **Master Port** to your computer via USB.
- Follow the on-screen instructions to install the firmware on the Master Port.
- Wait for the process to be completed.

Step 5: Install Firmware on Slave Port

- Disconnect Master Port.
- Connect the **Slave Port** to your computer via USB.
- Follow the on-screen instructions to install the firmware on Slave Port.
- Wait for the process to be completed.

Step 6: Verify Installation

- Reconnect the **Master Port** to your computer.
- The application will automatically verify the installation.
- A success message will be displayed if the installation is verified.



## Some Screenshots

