

User Documentation: Basic Guide

Introduction

Welcome to the Guitar Pedal User Guide. This document provides instructions for setting up, operating, and troubleshooting the Guitar Pedal. This product is designed for musicians who want to enhance their sound with a versatile, easy-to-use effects pedal powered by STM32F746 microcontroller technology.

System Features

Versatile Effects Management:

Pre-installed effects and user-uploaded effects from an SD card.

Firmware Updates:

Simple process for updating the pedal firmware.

User Interface:

Intuitive application to manage firmware and effects.

Compatibility:

Works with both live performance and studio recording setups.

System Requirements

1. Hardware:
 - STM32F746 Discovery Board.
 - SD card (formatted to FAT32).
 - USB cable for PC connection.
2. Software:
 - PC Application: "Guitar Pedal Manager."
 - Local server hosting firmware and effects files.

Setup Instructions

Initial Setup:

Connect the STM32F746 board to your PC via USB.

Insert the SD card using any card reader into the PC for storing effects files.

Installing the Application:

Download and install the "Guitar Pedal Manager" application on your PC.

Updating Firmware:

Open the application and click "Firmware."

Select the desired firmware version from the list.

Save the file directly to the STM32's internal memory.

Adding Effects:

Click "Effects" in the application.

Select the effects files you wish to add from the list.

Save the files to the SD card.

Using the Pedal:

Connect your guitar and amplifier to the pedal.

Adjust the knobs and switches for desired effects.

Troubleshooting

Issue: Pedal not powering on.

Solution: Check USB cable and power source.

Issue: Effects not loading.

Solution: Ensure the SD card is correctly formatted and inserted.

Issue: Firmware not updating.

Solution: Ensure the STM32 board is detected and connected properly.

Issue: Application not responding.

Solution: Restart the application and check for dependencies.

Support

For further assistance, refer to the Technical Documentation or contact the support team.