Ultimarc 8541667255

Ultimarc I-PAC 4 Arcade Game Controller Interface Instruction Manual

Model: 8541667255

INTRODUCTION

The Ultimarc I-PAC 4 is an advanced interface designed for connecting arcade controllers, such as pushbuttons and joysticks, to your computer. It is specifically engineered to support up to four players simultaneously, making it ideal for multi-player MAME cabinet setups. This manual provides essential information for the proper setup, operation, and maintenance of your I-PAC 4 device.

SETUP GUIDE

Follow these steps to correctly set up your I-PAC 4 interface:

1. **Unpack the Device:** Carefully remove the I-PAC 4 board and the included USB cable from its packaging.

2. **Connect Arcade Controls:** The I-PAC 4 features 64 inputs, each with its own dedicated microprocessor pin, ensuring no interaction or delays. Connect your joysticks and pushbuttons to the clearly labeled screw terminals on the board. The inputs are marked for 4 joysticks (Up, Down, Left, Right), 8 buttons per player (SW1-SW8), plus dedicated inputs for Coin (1-4) and Start (1-4). Ensure all connections are secure.

3. **Ground Connections:** All inputs require a common ground connection. The board provides multiple ground terminals (GND).

4. **Connect to Computer:** Use the provided USB 2.0 cable to connect the I-PAC 4 to an available USB port on your computer. The I-PAC 4 emulates a USB keyboard and overcomes the typical USB simultaneously-pressed-switch limit.

5. **Install Configuration Tool:** For advanced configuration and mapping, download the official I-PAC configuration tool from the Ultimarc website or the provided support link: https://www.arcaderenovations.com/ipac4/. This tool allows you to customize key assignments, set up shift functions, and more.

6. **Verify Installation:** The I-PAC features a self-test LED which provides an instant visible check of your installation and can indicate connection problems. Observe this LED during setup.
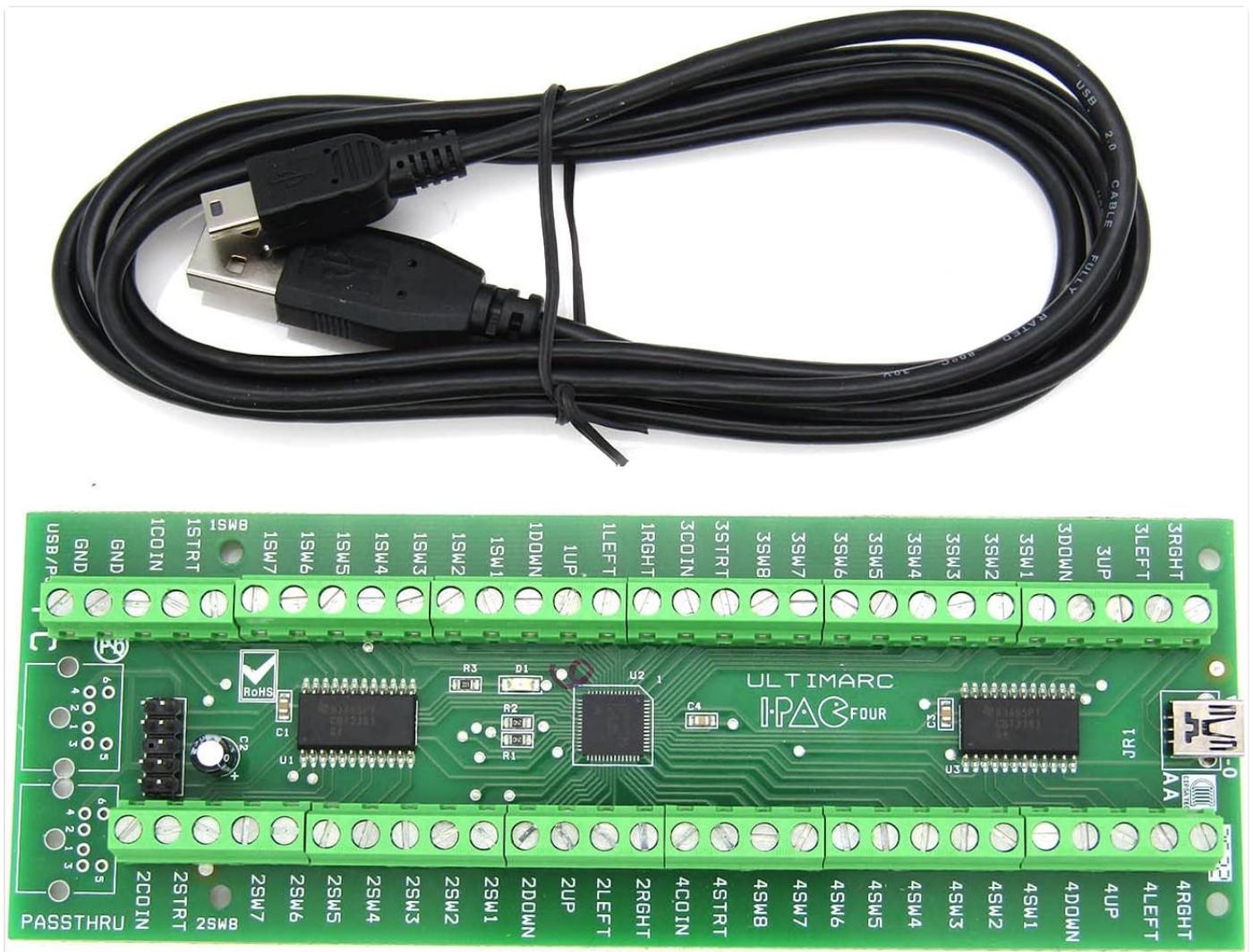
Figure 1: The Ultimarc I-PAC 4 board and its accompanying USB cable. The board is green with clearly labeled screw terminals for connecting arcade controls. The USB cable connects the interface to a computer.

OPERATING INSTRUCTIONS

The I-PAC 4 is designed for intuitive operation once configured. Here are key operational features:

- **Plug and Play:** After initial configuration, the I-PAC 4 operates as a standard USB keyboard or game controller, depending on its settings. It retains its programming even after power-off.

- **Multi-Player Support:** The device supports up to four players, with dedicated inputs for each player's joystick and eight buttons. This allows for simultaneous input without ghosting or delays, crucial for fighting games and other multi-button titles.

- **Shift Functionality:** The I-PAC 4 includes a unique shift function. Any input can be assigned as a shift key to access an alternate set of keycodes. The shift button itself can also have its own function, eliminating the need for a dedicated control panel button solely for shifting.

- **Flexible Input Configuration:** Beyond keyboard emulation, pins can be configured as mouse buttons or game controller buttons, offering versatility for various arcade setups and applications. It also supports power and volume control functions.

MAINTENANCE AND CARE

To ensure the longevity and proper functioning of your I-PAC 4, observe the following guidelines:

- **Handle with Care:** The I-PAC 4 is a sensitive electronic component. Avoid dropping the device or subjecting it to

excessive force.

- **Protect Connections:** Be careful when connecting and removing wires from the screw terminals. Do not overtighten screws. Ensure the USB port is not subjected to stress; avoid pulling on the USB cord.
- **Environmental Conditions:** Store and operate the device in a dry environment, away from extreme temperatures and humidity.
- **Cleaning:** If necessary, gently clean the board with a dry, soft cloth. Do not use liquid cleaners or solvents.

Note: Boards damaged by customer misuse, such as missing screws, bent wire connectors, or a broken USB port, are typically not eligible for a refund or warranty claim.

TROUBLESHOOTING

If you encounter issues with your I-PAC 4, consider the following common solutions:

- **Input Not Responding:**

    - Check wiring: Ensure all wires are securely connected to the correct screw terminals on the I-PAC 4 board and to your arcade controls.
    - Verify ground connection: Confirm that the ground wire for the non-responsive input is properly connected to a GND terminal.
    - Use the self-test LED: The self-test LED on the I-PAC 4 can help identify problematic connections. If the LED indicates an issue, re-check the corresponding wiring.

- **Incorrect Key Mapping:**

    - Re-run the configuration tool: Use the I-PAC configuration tool to verify and re-assign key mappings. Ensure the correct profile is loaded.
    - Check for software conflicts: Other software or drivers on your computer might be interfering with the I-PAC's input.

- **Device Not Recognized by Computer:**

    - Try a different USB port: Connect the I-PAC 4 to another USB port on your computer.
    - Check USB cable: Ensure the USB cable is not damaged and is fully inserted into both the I-PAC 4 and the computer.
    - Restart computer: A simple restart can often resolve recognition issues.

- **Simultaneous Press Limit:** The I-PAC is designed to break through the USB simultaneously-pressed-switch limit. If you experience issues with multiple inputs not registering, ensure your configuration is correct and that you are using the official I-PAC drivers/firmware.

Most problems are caused by configuration or wiring issues. If you continue to experience difficulties, please contact customer support.

SPECIFICATIONS

Feature	Detail
Model Number	8541667255
Manufacturer	Ultimarc

Feature	Detail
Inputs	64 (programmable for 4 joysticks, 8 buttons each, plus coin 1-4, start 1-4)
Interface	USB (emulates keyboard/game controller)
Compatibility	PC (Windows, Linux, Mac - acts as standard USB HID device)
Dimensions (Package)	6 x 4 x 1 inches
Item Weight	5.6 ounces
First Available Date	January 21, 2017

Note: This board does not include trackball or spinner connections.

WARRANTY INFORMATION

Specific warranty terms and conditions for the Ultimarc I-PAC 4 are typically provided at the time of purchase or can be found on the manufacturer's official website. Please retain your proof of purchase for any warranty claims. Damage resulting from misuse, improper installation, or unauthorized modifications may void the warranty.

CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding your Ultimarc I-PAC 4, please contact the manufacturer or authorized reseller:

- **Online Support & Documentation:** Visit the official support page for the I-PAC 4, which includes configuration tools and detailed documentation: https://www.arcaderenovations.com/ipac4/
- **Email Support:** For direct assistance, you can email sales@arcaderenovations.com.

When contacting support, please provide your product model number (8541667255) and a detailed description of the issue you are experiencing.