

Touch22 User Manual

Auraphon Pro Touch22 USB-C Audio Interface

1. Introduction

Thank you for choosing Touch22.

Touch22 is a compact professional USB-C audio interface designed for modern home studios, content creators, and mobile workflows.

It combines studio-grade audio performance, dual-host USB-C connectivity, and hardware-first operation with a clear TFT display – without relying on complex software mixers.

Whether you are recording vocals, producing music, streaming, or working across multiple devices, Touch22 is designed to remain reliable, simple, and transparent.

2. Key Features

- Dual-host USB-C operation (computer + mobile device)
- Up to 32-bit / 192 kHz audio support
- 2 × Mic / Line combo inputs (XLR / TRS, rear panel)
- Dedicated front-panel Hi-Z instrument input
- Automatic input type detection (Mic / Line / Hi-Z)
- THAT-based low-noise microphone preamps
- ESS professional-grade AD/DA converters
- Real-time direct monitoring (zero latency)
- TFT color display with meters, faders, icons, and device status (display-only)
- Capacitive touch switches with LED feedback
- Context-sensitive main control knob
- Dual headphone outputs (6.35 mm + 3.5 mm)
- Standalone operation with external USB-C power
- Automatic state save and instant recall

3. Hardware Overview

Front Panel

- **Dedicated Hi-Z Instrument Input**
 - High-impedance input for guitar or bass
 - Front-panel connection
 - DI box not required
- **Headphone Outputs**
 - 3.5 mm TRS
 - 6.35 mm TRS

Top Panel

- **TFT Color Display**
 - Displays input and output level meters
 - Shows channel selection, input and output fader status
 - Displays input type icons (Mic / Line / Hi-Z) via automatic detection
 - Displays MIDI status icon when a MIDI device is connected
 - Indicates overall device status
 - Display-only (not a touchscreen)
- **Capacitive Touch Switches**
 - Eight touch-sensitive buttons with LED rings
 - Used for channel selection, direct monitoring selection, loopback selection, OTG device selection, headphone output selection, and home navigation
 - Instant operation without software
- **Main Control Knob**
 - Large physical knob used to adjust the level of the currently selected Mic, Hi-Z, or Line input, and the Main, Loopback, OTG, or Headphone output
 - Controlled target depends on the active channel or output selection
 - Short press to mute or unmute the selected output
 - No hidden modes or secondary functions
- **Auraphon Branding**
 - Logo printed on the top panel

Rear Panel

- **Combo Inputs 1-2 (XLR / TRS)**
 - Microphone and line-level inputs
- **+48 V Phantom Power Switches**
 - Individually selectable per input
- **Main Outputs (L / R)**
 - Balanced TRS outputs
 - Unbalanced RCA outputs
- **Main USB-C Port**
 - Computer / DAW connection
- **OTG USB-C Port**
 - Mobile device or secondary host connection
- **Dedicated USB-C Power Input**
 - For external power supply
- **Power Switch (ON / OFF)**
- **MIDI IN / OUT (DIN)**

4. Getting Started

1. **Connect your computer to the Main USB-C port.**
2. **(If required) Connect an external power adapter to the dedicated USB-C power input.**
3. **Connect monitors and headphones.**
4. **Connect microphones, line-level sources, or instruments.**

5. Select Touch22 as the input and output device in your DAW.

Touch22 automatically detects connected input types and updates the corresponding icons on the TFT display.

5. Dual-Host USB-C Operation

Touch22 supports simultaneous connection to two USB-C host devices.

Recommended configuration

- Main USB-C: Computer (DAW)
- OTG USB-C: Mobile device or secondary system

This configuration is validated for long recording, streaming, and playback sessions.

6. Monitoring & Control Philosophy

Touch22 uses hardware-based direct monitoring and selection-based control.

- No software mixer required
- No routing matrix or touchscreen dependency
- Input signals are monitored directly with zero latency
- Levels are adjusted using the context-sensitive main control knob
- Clear visual feedback via the TFT display and icons

This design ensures low latency, high stability, and consistent operation across platforms.

7. Loopback & Streaming

Touch22 includes internal loopback functionality for:

- Live streaming
- Screen recording
- Online meetings

Loopback signals are internally managed and are independent of the monitor output level.

8. Power Supply and USB Connection

(Important Information)

Touch22 can be powered directly from a USB connection or from an external USB-C power supply.

To ensure reliable operation and optimal audio performance, please read the following information carefully.

USB-C Data Cable Requirement

Touch22 requires a proper USB-C data cable.

- Always use a USB-C cable that supports both data transfer and power.
- Charging-only USB-C cables are not suitable and may cause unstable operation, power warnings, or audio dropouts.

For best results, use a short, high-quality USB-C data cable.

Power Specifications

Item	Expected / Target
Power Consumption (Typical)	2.5 – 4.0 W
Power Consumption (Maximum)	5.0 – 7.5 W
Power Source	USB bus-powered + optional external USB-C power
Recommended External Power	5 V / 2 A

Operation with Computer (Bus-Powered)

Bus power is usually sufficient when:

- Connected to a desktop or laptop computer
- Using Mic or Line inputs
- Operating at moderate headphone levels
- Using a single USB-C host

Dual-Host, Loopback, and High-Load Use

External power is recommended when:

- Using dual-host USB-C operation
- Using loopback or streaming features
- Driving low-impedance headphones at higher levels
- Running long recording sessions

Standalone Operation

When Touch22 is used without a computer, external power is required via the dedicated USB-C power input.

TFT Power Status Indicator

- Green lightning icon: Sufficient power available
- Orange lightning icon: Insufficient power – external USB-C power recommended

Operating with insufficient power may affect performance or limit certain functions.

9. Auto-Save & Standalone Operation

All settings are saved automatically.

- No manual save or preset buttons
- Settings are restored instantly on power-up

When externally powered, Touch22 can operate as a standalone DAC or compact mixer.

10. Technical Performance (Typical)

- Mic Noise Floor: -128 dBu (A-weighted, 150 Ω)
- Dynamic Range: 118 dB (ADC) / 119 dB (DAC)
- THD + N: < 0.001 %
- Headphone Output Power: ~100 mW @ 32 Ω
- Round-Trip Latency: 4.8 ms @ 48 kHz / 64 samples

11. Design Origin

Touch22 was developed through global collaboration.

- Concept & UI Design: San Francisco / Seoul
- Product Development: Korea
- Audio Driver Engineering: Germany
- Early UI Feedback: Japan
- Manufactured in China

Auraphon Pro – From Concept to Clarity

12. Support & Contact

Website

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