**INSTALL THE KHADAS USB DRIVER**

**DISCONNECT & RECONNECT TONE2**
Unplug and replug the USB-C cable connecting Tone2 Pro to your Windows PC.

* Windows 10’s USB-audio driver **does not** fully support the Tone2 Pro. It has latency and sampling rate issues, and no ASIO.
FIRMWARE UPGRADE

1. OPEN THE KHADAS DFU UPGRADE TOOL
   Download the latest tool from dl.khadas.com/products/tone2/dfu_tool.

2. DOWNLOAD THE LATEST TONE2 PRO FIRMWARE
   Download the latest firmware from dl.khadas.com/products/tone2/firmware.

3. FLASH NEW FIRMWARE TO TONE2 PRO
   Connect your Tone2 Pro via USB-C to your PC, and use the DFU tool to burn the new firmware.

* For more details, visit docs.khadas.com/tone2.
**INPUT / OUTPUT SOURCES**

1. **3.5MM HEADPHONES** (ANALOG OUT)
2. **4.4MM BALANCED HEADPHONES** (ANALOG OUT)
3. **PRE-AMP** (ANALOG OUT) → **AMP** → **HI-FI SPEAKERS**
4. **PRE-AMP** (ANALOG OUT) → **AMP** → **HI-FI SPEAKERS**
5. **CD PLAYER** (S/PDIF COAX IN)
6. **BLUETOOTH MODULE** (DATA IN) / **USB-C 5V LINEAR POWER SUPPLY** (POWER IN)
7. **COMPUTER / SMARTPHONE / SBC** (DATA IN + POWER IN)
RCA

Usage Modes:

1. Khadas Balanced RCA to XLR-3 Converter
2. Standard RCA Cable
3. Attach RCA Cable First, Before Powering on Tone2

RCA Port:
- Balanced RCA-R
- Balanced RCA-L
- S/PDIF IN/OUT

Standard RCA Cable
- Unbalanced Signal R
- Unbalanced Signal L

Balanced RCA Cable
- Balanced Signal R
- Balanced Signal L
- Input S/PDIF Signal R+L
If both I2S and USB are connected **simultaneously**, power will be drawn from **I2S (higher priority)**.
**VOLUME KNOB**  
**ROTARY/PUSH ENCODER**

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### Action

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*The double-push action should be performed first, to activate the corresponding rotate action.*
* For a more detailed explanation of the RGB ring light, go to the next page.
RGB RING LIGHT

**MODE**
- SELECTION (RED)

**VOLUME (MUTE)**
- 1 - 20%
- 21 - 40%
- 41 - 60%
- 61 - 80%
- 81 - 100%

**VOLUME**
- HEADPHONES (TURQUOISE)

**GAIN**
- HEADPHONES (GREEN, RED)
- LOW
- HIGH

**INPUT**

**FILTER**
RGB RING LIGHT

DSD
FORMAT (WHITE)

64

128

256

512

PCM
FORMAT (YELLOW)

44.1 / 48K

88.2 / 96K

176.4 / 192K

352.8 / 384K

705.6 / 768K

LOCK
ENCODER (WHITE)

LOCKED
FREQUENTLY ASKED QUESTIONS

1. Why does Windows require the Khadas USB driver?
The Khadas USB driver provides ASIO support and removes the latency and sample rate conversion issue experienced with the default Windows USB driver for DACs.

2. What does MQA stand for?
MQA is an award-winning British technology that delivers the sound of the original master recording. The master MQA file is fully authenticated and is small enough to stream or download. The Tone 2 Pro LED glows green or blue to indicate that the unit is decoding and playing an MQA stream or file, and denotes provenance to ensure that the sound is identical to that of the source material. It glows blue to indicate it is playing an MQA Studio file, which has either been approved in the studio by the artist/producer or has been verified by the copyright owner.

3. What is balanced-RCA?
A new balanced audio connector standard, designed by Khadas for small form-factor desktop DACs. It is backwards compatible with standard RCA plugs and cables, more details: https://khadas.com/balanced-rca

4. How do I use my existing XLR-3 equipment with balanced-RCA?
Purchase the Khadas Balanced-RCA to XLR-3 adapter; it is a male balanced-RCA plug connected to a male XLR-3 plug.

5. What is the maximum headphone impedance supported by Tone2 Pro's headphone amplifier?
- 3.5mm Single-End: 150ohm
- 4.4mm Balanced: 300ohm

6. How do I use S/PDIF input?
Attach a standard RCA cable, and set the input mode to “S/PDIF” or “Auto”.

7. How do I connect my smartphone to Tone2 Pro via Bluetooth?
Attach an external Bluetooth module to the USB-C (I2S) port, and set input mode to “I2S” or “Auto”.

8. Why doesn’t my USB-C to Lightning charging cable work with the Tone2 Pro?
Use the Apple C78-USBH Lightning to USB-C cable, and connect a 5V power supply to the USB-C (I2S) port.

9. Can the USB-C input be used with the USB-C output of my phone?
Yes, Tone2 Pro can be powered by most Android smartphones via USB-C. iPhone users require an external 5V powerbank connected to the USB-C (I2S) port; the iPhone has insufficient power to drive the Tone2 Pro.

10. Does the Tone2 Pro support native DSD decoding?
Yes, DSD512 native decoding can be enabled by installing the Khadas USB Driver.

11. Does the hybrid digital/analog volume knob control RCA volume?
No. RCA output is independent from the 3.5mm and 4.4mm headphone outputs.

* For the latest FAQ, visit khadas.com/tone2pro-faq.
12. What is the voltage level of the RCA balanced connection, is it the standard 4V?
4.0Vrms for balanced RCA mode, and 2.0Vrms for standard RCA mode (single-end).

13. What are the priorities when input mode is set to “Auto”?
Priority from high to low: Bluetooth, then USB, and finally S/PDIF. When the input is set to “Auto”, and a song is playing on Bluetooth, the Tone2 Pro will automatically switch from S/PDIF or USB to Bluetooth input.

14. How can I play MQA music?
Tone2 Pro supports full hardware decoding of MQA data. Stream or play music from a software or app that contains music that uses MQA encoding. Visit mqa.co.uk/how-it-works to learn about MQA-supported software and apps.

15. Is there a cutoff when headphones are plugged in or will it play through both RCA and headphones concurrently?
There is no cutoff, Tone2 Pro will play through both RCA and headphone jacks concurrently.

16. Can I use the Tone2 Pro to receive a signal from the TV via coaxial and send it to the amplifier via RCA?
Yes. Set the input mode as “S/PDIF” or “Auto”, Tone2 Pro will output to both the RCA and headphone jacks.

* For the latest FAQ, visit khadas.com/tone2pro-faq.
1. Why is the Volume Knob unresponsive and flashing full-white when I turn it? It has been locked, triple-press it to unlock.

2. Help! My iPhone is connected to Tone2 Pro, and the LEDs keep flickering! Your iPhone cannot provide sufficient power to drive the Tone2 Pro, plug in a 5V power supply to the secondary USB-C port labelled “I2S”. Ensure that you are also using the Apple C78-USBH Lightning to USB-C converter cable.

3. Why can’t my Android phone detect the Tone2 Pro? I’ve plugged USB-C in, but the power LED remains off. Go to “Settings” and enable the “USB-OTG” feature, most phones have this on by default.

4. My Tone2 Pro is connected to my PC and I’m playing a song but there’s no sound! Check your computer’s sound-output device, switch from “Speakers” to the “Tone2 Pro”. Secondly, check that your Tone2 Pro’s input mode is set to “USB” or “Auto”.

5. Why is the volume so low? I’ve already rotated the volume knob to maximum! You are using a high-impedance headphone, set the headphone gain mode to “high”.

6. Help! I’ve connected my PC to the Tone2 Pro and the lights are on, but my computer cannot detect it! Ensure that you’ve plugged your USB-C cable into the USB-C port labelled “USB”.

* For more technical assistance, visit forum.khadas.com/c/khadas-tone.
LIMITED PARTS & SERVICING
1 year from date of purchase.

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ATTENTION
Please contact customer service before arranging return-shipment.

SUPPORT FORUM
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DOCUMENTATION
docs.khadas.com/tone2

WEBSITE
khadas.com/tone2pro

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