

PROLO RING USER MANUAL

Prolo Ring *The All-in-One Wearable Ring Controller*

Firmware 1.0.7 | Prolo Studio 1.0.7



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1. OVERVIEW

Inside the Box

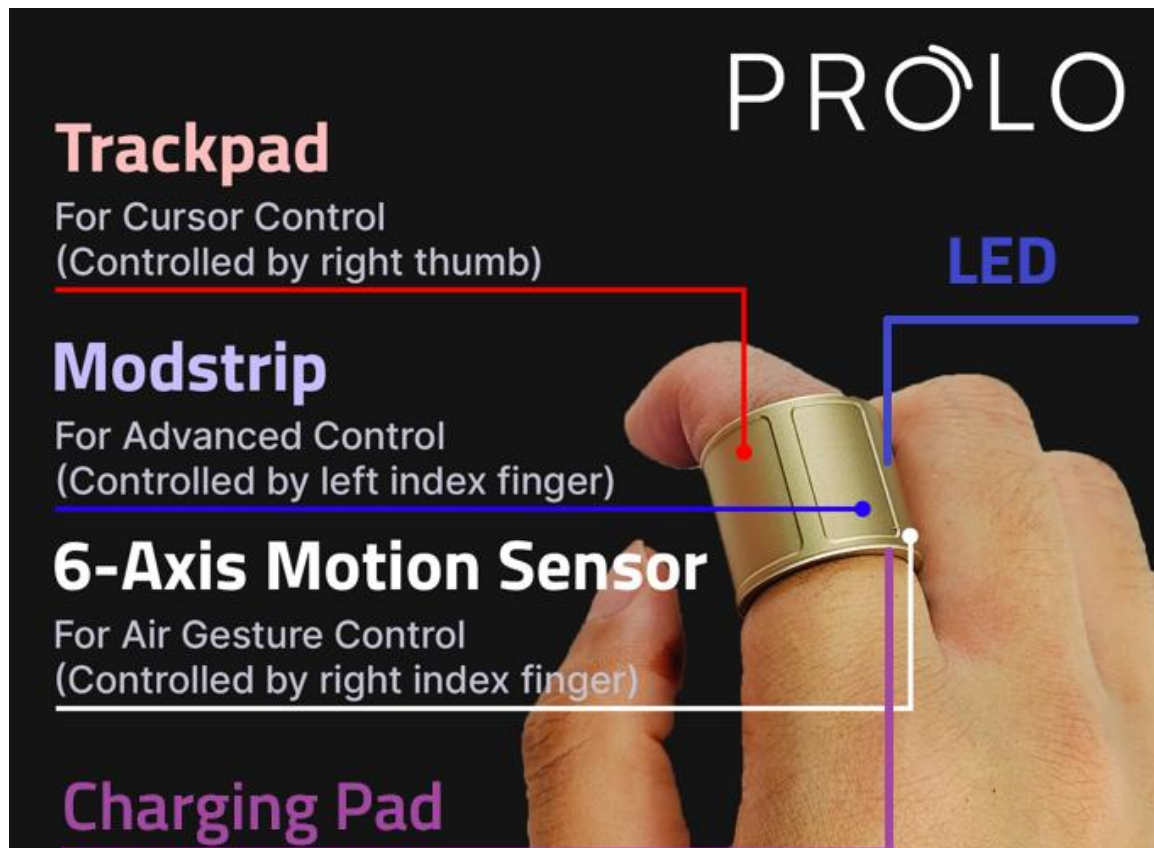
- Prolo Ring Device
- Ring Charging Cable
- Quick Start Guide
- Protective Pouch
- Ring Size Reducer Shims
- Ring Case Charger*
- Ring Case Charging Cable*



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|------------------------|------------------------------|-----------------------|
| 1. Premium Storage Box | 2. Prolo Ring Device | 3. Ring Case Charger* |
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*** Available with Pro Bundle Only**

Device Overview



1. **Trackpad Zone** – Thumb surface for cursor and click control.
2. **Modstrip** – Top touch strip for mode switching and shortcuts.
3. **6-Axis Motion Sensor** – Enables Air Mode motion gestures.
4. **LED Indicator** – Displays power, Bluetooth, and mode status.
5. **Charging Pad** – Magnetic connector for charging (inside).

The illustration shows right-hand use. Prolo Ring can also be worn on the left index finger; keep the Modstrip on top and the Trackpad facing the thumb.

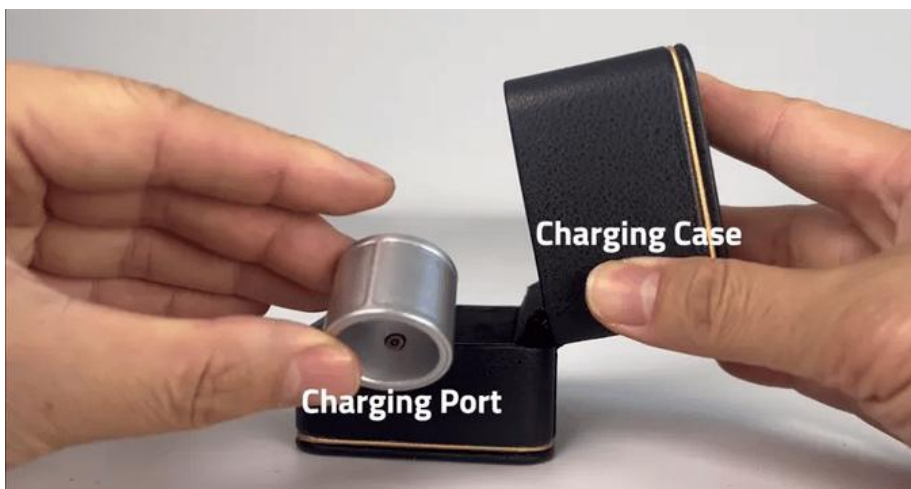
2. QUICK SETUP

1. Before First Use.

⚠ Important: **Must Charge**

Because of shipping regulations, Prolo Ring is often delivered with a low battery. If you start using it immediately without a full charge, it may drop to a critical level and enter a self-protection state.

- Remove the protective seal from the charging pad.
- Charge the Prolo Ring fully before first use.
- For the first charge, use the ring charging cable and a 5V wall charger.
- After the first charge, charge using either the **Ring Charging Cable** or the **Ring Case Charger**.
- The magnetic pins automatically align. When charging starts, the LEDs briefly show a transition and the approximate battery level, then the active battery-level bar breathes for up to about 20 seconds. ***A fully charged ring shows a solid 3-bar display during the charging display window.***



2. **Wear the Ring**

Remove the ring from the charger. Place on your **right or left index finger**, whichever feels more natural. Make sure the trackpad is facing the thumb at the bottom, and the Modstrip is on top.

3. **Automatic Power-On & Smart Connect**

The ring powers on automatically when removed from the charger — no button needed. If it already has a saved device, Smart Connect automatically tries to reconnect in the background. If there is no saved bond, the ring automatically enters pairing mode.

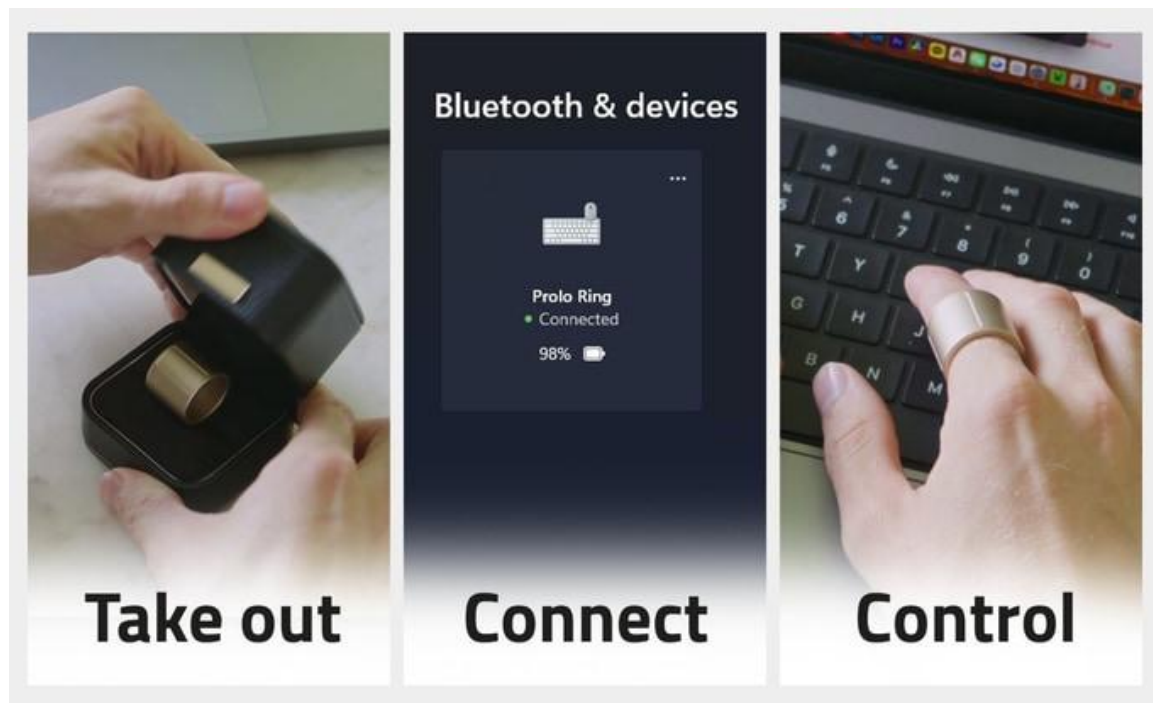
4. **Pair via Bluetooth**

Open **Bluetooth Settings** and select “**Prolo Ring.**”

When pairing completes, the selected device-slot bar appears briefly, followed by all three LEDs solid, then a fade-out.

5. **Start Controlling**

Prolo Ring starts with the cursor mode or the last functional mode.



3. MODES AND GESTURES

Prolo features four control **modes**: Cursor, Touch, Navigation and Air. The modes and gesture sets are selected/toggled using Modstrip.

Quick Mode Reference

Mode	How to Enter	Default Use	Additional Features
Cursor	Swipe Left on Modstrip	Full Mouse & cursor control	Edge Scroll, Joystick Assist, Modstrip Long Hold Options
Navigation	Swipe Right on Modstrip	In-App navigation	ModNav; Edge Scroll; Cursor access
Touch	Swipe Right + Hold Modstrip	Media control	ModTouch; Cursor access
Air	Swipe Left + Hold Modstrip	Motion control	Hold Trackpad to use AirTouch

Cursor Mode

For everyday cursor control, instant scrolling, hot buttons, snap actions, and quick shortcut gestures.

Move on Trackpad	Move cursor. Swipe quickly edge to edge and hold to activate Joystick Assist.
Single Tap	Left click
Edge Scroll	Instant vertical scroll
Edge-to-Edge Swipe + Hold	Activate Joystick Assist; hold near the outer edge briefly for automatic speed Boost
Bottom-Left Long Hold	Middle click
Bottom-Right Long Hold	Right click
Bottom-Left Double Tap	Left click hold – latched for Drag Object. Single Tap releases.
Bottom-Right Double Tap	Right click
Two-Finger Tap	Show Desktop (Win + D)
Trackpad Hold + Single Air Tap	Snap cursor to left
Trackpad Hold + Double Air Tap	Snap cursor to right

Modstrip Long Hold	Continuous scroll/pan by default. Double-tap the Trackpad to exit.
Mod Hold + Trackpad Move	Click-and-drag. Release both fingers to stop.

Joystick Assist

Swipe quickly from one edge of the Trackpad to the opposite edge and keep holding. While held, the Trackpad works like a joystick: the farther your thumb is from the center, the faster the cursor moves. Release to stop. Use normal Trackpad movement for fine positioning. Joystick Assist can be turned off in Profile Settings.

Joystick Boost

While Cursor-mode Joystick Assist is active, keep your thumb in the outer area of the Trackpad briefly and the ring automatically adds about 50% more cursor speed. The boost stays active while your thumb remains near the edge and returns to normal speed when you move back toward the center. No extra pressure is required.

Navigation Mode

In-app **navigation** for presentations, browsing and e-reading. Two styles to choose from.

To toggle between Desktop/XR Style and Mobile Style, use 7x Tap + Hold on the Modstrip. After changing styles, forget the ring on the phone and pair it again so the host refreshes the Bluetooth profile.

	Desktop/XR Style (Default)	Mobile Style (Overlay)
Edge Scroll	Instant Vertical Scroll	N/A
Swipe Up/Down (+Hold)	Up/Down arrow (continuous)	Mobile swipe up/down
Swipe Right/Left (+Hold)	Right/Left arrow (continuous)	Mobile swipe right/left
Tap	Enter	Mobile Single Tap
Double Tap	Consumer Back (XR Glasses)	Mobile Double Tap (for example, Like)
Triple Tap	Consumer Home (XR Glasses)	Mobile Double Tap (same default action)
Long Hold	Ctrl + Windows (hold until release)	N/A
Dual-Finger Pinch In	Zoom out (Ctrl -)	N/A
Dual-Finger Pinch Out	Zoom in (Ctrl =)	N/A

Tap + Hold	Cursor Control	
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Note: Customizable gestures are available only with Pro Edition.

Important

After switching Mobile Style on or off, your phone must forget the ring and pair it again.

This is because Mobile Style changes the Bluetooth services the ring provides. Your phone may keep using the old cached Bluetooth profile from the previous bond, so the new mode may not work correctly until you remove the old pairing and reconnect from scratch.

Tap + Hold Temporary Cursor Control

When Multi-tap recognition is enabled, tap the Trackpad once, then touch and hold it again. While the second touch remains down, the ring temporarily uses Joystick Assist for cursor movement without leaving Navigation Mode. Release to return to Navigation. A quick second tap still works as the normal Double Tap action. This temporary cursor path uses normal Joystick Assist speed without Cursor-mode Boost.

ModNav Gestures — Extra Navigation control and customizations by holding Modstrip in Navigation Mode.

Mod Hold + Swipe Left	Home
Mod Hold + Swipe Right	End
Mod Hold + Swipe Up / Down	Page up / down
Mod Hold + Tap / Double Tap / Triple Tap	Customizable*

Touch Mode

Standard Gestures — Quick control for media.

Swipe Up (+Hold)	Volume Up; camera shutter on devices that use Volume Up to take a photo
Swipe Down (+Hold)	Volume down
Swipe Right (+Hold)	Next track
Swipe Left (+Hold)	Previous track
Long Hold	No Action by default; customizable*
Tap + Hold	Temporary Joystick Assist cursor control*
Tap	Play / Pause
Double Tap	Mute

Triple Tap	Customizable*
Tap + Hold	Cursor Control

Tap + Hold Temporary Cursor Control

Touch Mode supports the same Trackpad Tap + Hold shortcut when Multi-tap recognition is enabled. Tap once, then touch and hold again to get temporary cursor control; release to return to Touch Mode. A quick second tap remains the normal Double Tap action.

ModTouch Gestures — More media control and customizations by holding Modstrip.

Mod Hold + Swipe Right	Forward
Mod Hold + Swipe Left	Back
Mod Hold + Swipe Up / Down	Customizable*
Mod Hold + Tap / Double Tap / Triple Tap	Customizable*

Air Mode

Standard Gestures — Control without touching any surface.

Swipe Left / Right	Customizable*
Single / Double Tap	Customizable*

AirTouch Gestures — Hold the Trackpad for more controls in Air Mode.

Trackpad Hold + Swipe Left / Right	Customizable*
Trackpad Hold + Single / Double Tap	Customizable*

Air Gesture Trigger (Pro Edition)

Air gestures are available on **Pro Edition** only.

How to trigger Air Gestures

1. **Tilt your finger** so the **charging port is at the bottom** of the ring.
2. When the ring detects the correct orientation, all 3 LEDs turn on briefly for about 2 seconds (●●●) to indicate Air-Ready.
3. Perform the air gesture while the short Air-Ready indication is active. Use strong acceleration and deceleration with a quick, deliberate motion.

4. When an air gesture is recognized, LED3 gives one quick tick (○○●) to confirm the gesture.

5. Supported air gestures:

- **Air-swipe left**
- **Air-swipe right**
- **Air click** (single click)
- **Air double-click**

6. **Left-hand use:** enable **Left-Handed Settings** in Prolo Studio to use air gestures on the left hand.

Tip: If the 3 LEDs do not turn on, adjust the tilt angle until the charging port points down more clearly.

System & Mode Actions

Swipe Left on Modstrip	Enter Cursor Mode
Swipe Right on Modstrip	Enter Navigation Mode
Swipe Right & Hold on Modstrip	Enter Touch Mode
Swipe Left & Hold on Modstrip	Enter Air Mode
1x Tap + Hold on Modstrip	Manual Connect / Switch / Unlock
2x Tap + Hold on Modstrip	Enter Pairing to Add a New Device
3x Tap + Hold on Modstrip	Toggle Device Status / App Status
4x Tap + Hold on Modstrip	Shutdown (Requires Charging to Turn On)
5x Tap + Hold on Modstrip	Reset to Factory Default and Clear Bonds
6x Tap + Hold on Modstrip	Enter OTA Mode for Firmware Update
7x Tap + Hold on Modstrip	Toggle Navigation Style (Desktop/XR vs Mobile)
Palm Hold	Lock (Requires Unlock Gesture or Charging to Unlock)

Palm Hold is a natural gesture for moments when you're taking off the ring—or when you want to quickly lock it to prevent accidental inputs for a short time.

To unlock, simply **single tap + press-and-hold on the Modstrip**, or place the ring back onto the **charger**. When locked, 1x Tap + Press & Hold performs Unlock only (no device switching).

For longer breaks, we recommend removing the ring and storing it on the charger.

Note: Customizable gestures are available only with Pro Edition and above.

4. BUILT-IN FUNCTIONS

These core functions work instantly after pairing — no app required.
Works across all major systems (Windows, macOS, Android, iOS, Linux).

Cursor Control

- Move Cursor with Joystick Assist
- Left / Right / Middle Click
- Left Click Latched for Drag
- Edge Scroll
- Instant Click-and-Drag / Drag-and-Drop
- Win + D
- Snap Left / Snap Right

Navigation

- Arrow Up / Down
- Arrow Left / Right
- Scroll Up / Down
- Push-to-Talk shortcut
- Pinch In / Out (Zoom)
- Enter / Back / Home (XR Defaults)
- Page up/down
- Home / End
- Cursor control

Media Control

- Camera Shutter
- Volume Up / Down
- Next / Previous Track
- Forward / Back

- Play / Pause
- Mute
- Cursor control

5. SYSTEM COMMANDS

The Prolo Ring uses standard Bluetooth HID and does not require any drivers or software for basic operation.

Smart Connect and First-Time Pairing

1. Remove the ring from the charger or touch the Trackpad to wake it. If the current Device Status has no saved bond, the ring automatically starts pairing advertising. If a saved bond exists, Smart Connect automatically starts reconnecting to the last active device instead.
2. Open **Bluetooth Settings** on your device and search for: **“Prolo Ring”**
3. Select it to connect.

LED Behavior

- **Pairing / advertising:** all three LEDs breathe for about 3 seconds, then a dim full-bar breath repeats about once every 5 seconds while the ring remains discoverable.
- Manual connecting / switching: one LED breathes to identify the saved-device slot currently being tried. The breathing indicator moves if the ring advances to another slot.
- Manual connection / pairing success: the selected slot bar appears briefly, then all three LEDs remain solid for about 1.5 seconds and fade out. Smart Connect recovery is intentionally quiet and may reconnect without this foreground LED sequence.

Smart Connect (Automatic Reconnection)

Smart Connect reduces the need to manually use 1× Tap + Hold just to reconnect. After a touch wake or a stable charger removal, the ring automatically tries the last bonded device. After an unexpected Bluetooth link loss, it also retries the last active device automatically. The retry sequence is bounded: depending on the situation, automatic recovery lasts roughly 45–50 seconds and then stops to save battery if the host is still unavailable. Automatic recovery is intentionally quiet, so the LEDs

may stay off while it is retrying. Use 1× Tap + Hold when you want an immediate manual reconnect, want to take control of an ongoing automatic retry, or want to switch to another remembered device.

System Commands on the Modstrip (Tap + Hold)

System commands are performed on the Modstrip.

Tap Preview (Bar Pattern)

- **Taps 1–3:** 1, 2, and 3 bars at normal brightness.
- **Taps 4–6:** the pattern wraps to 1, 2, and 3 bars at stronger brightness.
 - **7 taps:** returns to the stronger 1-bar preview.
 - Press and hold the Modstrip after the final tap to execute the command.

Success & Abort Rules

- **Command confirmation:** after the hold is recognized, the selected preview bar flashes three times before the command-specific LED behavior begins.
- **Abort conditions:**
 - Any **touchpad touch** cancels the pending command
 - No press-and-hold detected within **2 seconds from the last tap**
- **Abort indication:** Down-sweep (3→2→1), then off

1x Tap + Press & Hold – Connect / Switch / Unlock

This is your main manual Bluetooth control gesture. Smart Connect now handles most routine reconnection automatically after wake, charger removal, or a temporary link loss.

Gesture:

- **1 tap + press & hold on the Modstrip**

Behavior:

- If the ring is not connected

- You can normally wait for Smart Connect, or use 1× Tap + Hold to take manual control and immediately try the current / last saved device slot.
- A manual connect attempt uses a 10-second connection window. Automatic Smart Connect uses its own longer bounded retry sequence.
- **If the ring *is already connected* to a host (A)**
 - The ring will auto-search and switch **to the next remembered device** (B, C, ...) and try to connect.
 - If no other device responds, it **reverts to A**.
- **If you repeat the gesture within 10 seconds** of the last connect attempt
 - The ring is forced to connect to the next available remembered device for 10 seconds.
 - when a connection succeeds:
 - **LED:** selected slot bar briefly → all three LEDs solid → fade-out.

LED during operation:

- Tap preview: **1-bar**
- **While searching/connecting:** the LED assigned to the current saved-device slot breathes. If the search advances, the breathing moves to the next slot LED.
- **On success:** the successful slot bar appears briefly, followed by all three LEDs solid and a short fade-out.

Tip: The ring remembers multiple bonded hosts (e.g., laptop, tablet, phone) and lets you roam between them using just this one gesture.

2x Tap + Press & Hold – Add a New Device (Pairing)

Use this when you want to pair the ring with a **new host** (e.g., a new laptop or phone).

Gesture:

- **2 taps + press & hold on the Modstrip**

LED:

- Tap preview: **2-bar**
- **While advertising:** all three LEDs breathe for about 3 seconds, followed by a dim full-bar heartbeat about once every 5 seconds.
- **On success:** the pairing slot bar appears briefly, followed by all three LEDs solid and a fade-out.

Behavior:

- Puts the ring into pairing / advertising mode for approximately 60 seconds so a new device can discover it.
- **Repeat the 2× Tap + Hold gesture** to replay the pairing indication and refresh the advertising window. If the ring is already pairing and you try Connect/Switch, two quick soft all-LED breaths acknowledge the input while pairing remains active.

Important:

Before adding a new device, please **disable Bluetooth** or **disconnect** the ring from any devices it's already paired and connected to.

This prevents existing hosts from “stealing” the connection while you are trying to pair a new one.

Then, on the new device:

1. Open **Bluetooth Settings**
2. Select “**Prolo Ring**”
3. Wait for the successful slot-bar and full-bar LED sequence to confirm pairing.

The ring stores up to 3-5 previously paired devices depending on the edition.

3x Tap + Press & Hold – Toggle Device Status / App Status

Use this when switching between **standalone HID device status** and **Prolo Studio App Status**.

Gesture:

- **3 taps + press & hold on the Modstrip**

Behavior:

Toggles between:

- **Device Status** – default, plug-and-play Bluetooth HID (no software required)

- **LED:** a falling 3→2→1 sweep indicates the change to Device Status, followed by a reboot.
- **App Status** – connects to Prolo Studio for advanced customization, macros, and profiles
 - **LED:** a rising 1→2→3 sweep indicates the change to App Status, followed by a reboot.
 - After rebooting into App Status, the ring automatically advertises with its App Mode name, such as “Prolo App Ring,” so Prolo Studio can connect.

LED:

- Tap preview: **3-bar**
- **Command feedback:** the 3-bar preview flashes three times, then the directional status sweep plays before reboot.
- When App Status starts or wakes, two quick soft breaths of all three LEDs provide an App Status reminder. Automatic advertising then continues with the dim pairing heartbeat. Switch back to Device Status after configuration for normal Bluetooth HID use.

4x Tap + Press & Hold – Shutdown (Requires Charging to Wake Up)

Use this to fully power off the ring for storage, long time travel, or to recover from unusual behavior.

Gesture:

- **4 taps + press & hold** on the **Modstrip**

Behavior:

- Powers the ring **completely off** (not sleep mode)
- The ring will **stop advertising** over Bluetooth and will not respond to gestures
- **Charging is required to wake it up**
 - Attach the magnetic charging cable or place it in the case charger to turn it back on

Notes:

- Shutdown is useful when you want to prevent accidental inputs in a bag/pocket

- If the ring becomes unresponsive, try **Shutdown**, then **reconnect power** to restart cleanly

LED:

- Tap preview: **1-bar noticeably brighter**
- **On execution:** the bright 1-bar confirmation flashes three times, followed by a 1→2→3→2→1 transition sweep and then LEDs off.

5x Tap + Press & Hold – Reset & Clear All Bonds

Use this as a **factory-style reset** for Bluetooth and settings.

Gesture:

- **5 taps + press & hold on the Modstrip**

Behavior:

- **Clears all Bluetooth pairings** (bonds) from the ring
- **Resets settings to default** (including profiles stored on the ring)
- Automatically **enters pairing mode** so you can set it up again

After reset:

1. Open Bluetooth settings on your main device
2. Pair again with “**Prolo Ring**”
3. Reconfigure Prolo Studio if needed

LED:

- Tap preview: **2-bar noticeably brighter**
- **After reset:** the ring reboots with no saved bonds, automatically enters pairing advertising, and uses the current all-LED breathing and heartbeat pattern.

6x Tap + Press & Hold – Enter OTA Mode for Firmware Update

Use this when you want to update the Prolo Ring firmware over the air.

The ring enters OTA mode and appears as DFUTarg in the firmware update app. DFUTarg is the temporary update-mode name used during firmware update or recovery. After a successful Firmware 1.0.7 update, the ring performs a one-time clean reset, clears its stored Bluetooth bonds, and returns to pairing mode.

Gesture

6 taps + press & hold on the Modstrip

Behavior

- Enters firmware update / OTA mode
- Temporarily disconnects from normal Bluetooth mode
- Advertises as **DFUTarg**
- Waits for firmware upload from Prolo Studio or the Prolo Firmware Updater

LED

- On success entering OTA mode: **3 fast strobes**, then OTA/update indication
- During update: keep the ring close to the computer or phone
- After update: the ring performs a one-time clean reset, then returns to pairing mode

Firmware Update Methods

Prolo Ring firmware can currently be updated in two recommended ways:

1. Desktop — Update directly in Prolo Studio using the computer's built-in Bluetooth adapter
2. Phone — Use the guided Prolo Firmware Updater on Android or iPhone

For desktop updates, use Prolo Studio. It updates the ring directly through the computer's Bluetooth adapter without requiring a Nordic USB dongle.

For phone updates, use the standalone Prolo Firmware Updater on Android or iPhone.

Prolo Studio 1.0.7 Build 20260821 adds direct Ring Firmware Update with Nordic Secure DFU signature validation enabled.

Firmware Update Method A — Recommended: Update Directly in Prolo Studio

Use this method on a supported Windows, macOS, or Linux computer. Prolo Studio uses the computer's Bluetooth adapter directly, so a Nordic USB dongle is not required for the recommended desktop update.

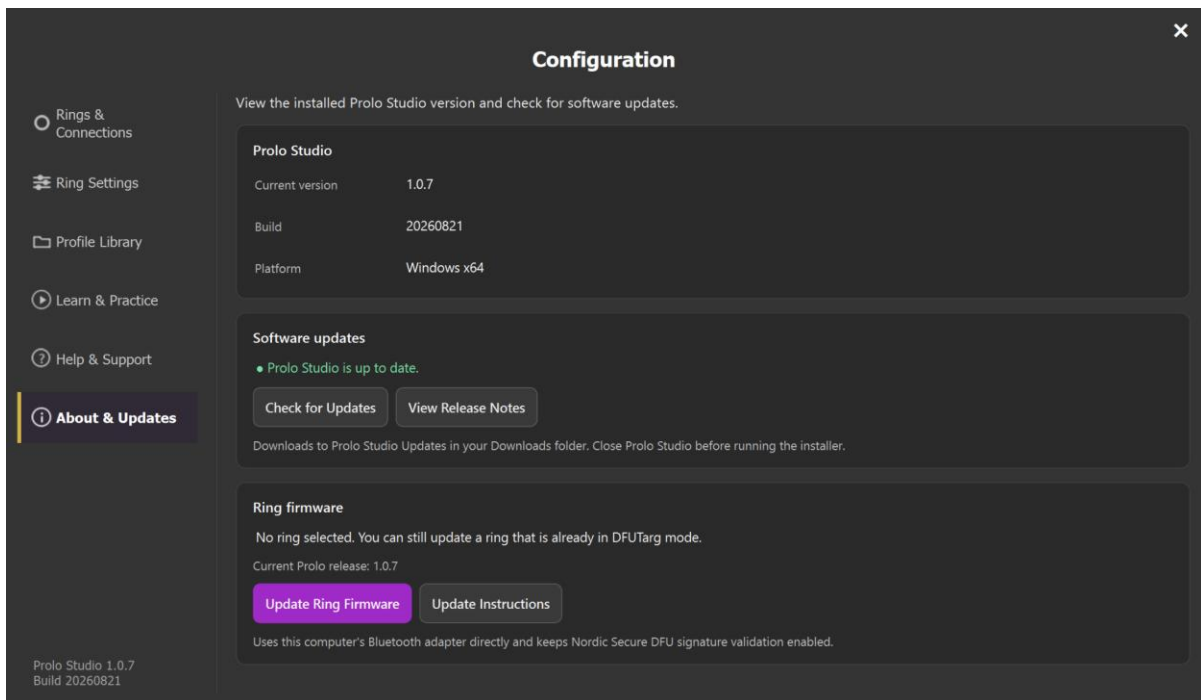


Figure 5-1. About & Updates now includes direct Ring Firmware Update in Prolo Studio.

What you need

- Prolo Studio 1.0.7 Build 20260821 or later compatible maintenance build
- A computer with a working Bluetooth adapter
- Prolo Ring charged and kept close to the computer

Steps

1. Open Prolo Studio and select Configuration > About & Updates.
2. Under Ring firmware, confirm the Current Prolo release shown by Studio.
3. Select Update Ring Firmware. Use Update Instructions if you need the gesture reminder.
4. When instructed, perform 6× Tap + Press & Hold on the Modstrip to place the ring in OTA / DFU mode. The ring temporarily advertises as DFUTarg.
5. Keep the ring close to the computer while Studio finds DFUTarg and performs the secure firmware update.
6. Wait for the update to complete and allow the ring to reboot. Do not close Prolo Studio or move the ring away during the transfer.

7. After a successful Firmware 1.0.7 update, allow the automatic post-update clean reset to finish. The ring clears its stored Bluetooth bonds and returns to pairing mode.

8. Forget/remove old Prolo Ring Bluetooth entries on previously paired hosts, then pair again with Prolo Ring.

Note: If the ring is already in DFUTarg mode, Prolo Studio can update it even when no ring is currently selected in Rings & Connections.

Firmware Update Method B — Mobile Guided Update with Prolo Firmware Updater

Use this method if you prefer to update from an Android phone or iPhone. On desktop, the direct Prolo Studio update is now the recommended method.

Prolo Firmware Updater



Firmware ready

Latest firmware ready: 1.0.7

6x Tap + Hold on
the Modstrip

After the 3 LEDs flash twice,
tap Next.

Next

Keep the ring close to your phone.

What you need

- Android phone or iPhone
- Prolo Firmware Updater installed
 - Android: install the Android APK Beta
 - iPhone: install the iPhone TestFlight Beta
- Internet connection
- Bluetooth enabled
- Device discovery / Nearby Devices permission enabled if prompted
- Location enabled during update if your phone requires it for Bluetooth scanning
- Prolo Ring charged and placed close to the phone

Steps

1. Download and install Prolo Firmware Updater.
 - On Android, install the **Android APK Beta**.
 - On iPhone, install the **iPhone TestFlight Beta**.
2. Open the app and grant the requested permissions.
 - On Android, allow Bluetooth / Nearby Devices permissions.
 - On iPhone, allow Bluetooth permission.
 - If your phone asks for location permission for Bluetooth scanning, allow it during the update.
3. The app will automatically prepare the latest firmware package.
4. On the ring, perform **6× Tap + Press & Hold** on the Modstrip to enter OTA mode.
5. Wait for the ring to show the OTA entry LED indication. The three LEDs should flash twice, and the ring will stop responding normally while it is in firmware update mode.
6. In the app, tap **Next**.
7. Keep the ring close to the phone during the update.

8. Wait until the app shows **Update complete**.
9. After the update, wait **10–20 seconds** for the ring to reboot.
10. Wait for the automatic post-update reset to complete and for the ring to return to pairing mode.
11. Forget/remove old Prolo Ring Bluetooth entries from every previously paired phone, computer, tablet, TV, and Prolo Studio installation.
12. Pair again with Prolo Ring. A manual 5x factory reset is only needed when the updater or Prolo Support specifically instructs you to perform one.

Notes

- Android may ask you to allow installation from this source if you are installing the beta APK directly.
- iPhone installation currently uses TestFlight. Install the TestFlight app first, then open the Prolo Firmware Updater beta link.
- If the app cannot find the ring, perform **6× Tap + Press & Hold** again and tap **Next** again.
- Keep the ring within about **1 meter / 3 feet** of the phone during the update.
- No manual firmware ZIP is needed for either recommended update method. If both Prolo Studio and the mobile updater fail, contact Prolo Support.

Important after OTA update

After the OTA update finishes and the ring reboots:

1. Wait **10–20 seconds** for the ring to restart.
2. Wait for the automatic post-update clean reset to finish. The ring should clear its own bonds and return to pairing mode.
3. On every previously paired phone, computer, tablet, TV, and Prolo Studio installation, forget/remove old Prolo Ring Bluetooth entries.
4. Pair again with Prolo Ring. A manual 5x factory reset is only needed when the updater or Prolo Support specifically instructs you to perform one.

A stale Bluetooth bond from one host may prevent the ring from bonding correctly again, and it may also affect bonding attempts from other hosts.

If the ring does not restart cleanly after OTA or reset, connect it to a powered **5V wall charger** using the Prolo charging cable to re-trigger charging/startup. Avoid power banks, computer USB ports, or the charging case for recovery.

Palm Lock (Quick Lock / Temporary Input Block)

Use this to temporarily prevent accidental inputs while the ring stays powered on.

Gesture:

- **Palm Hold** (place your palm against the touch surface and hold)

Behavior:

- Locks input (no cursor/gesture output) until unlocked
- Useful when adjusting the ring, taking it off briefly, or when you expect accidental touches

LED:

- On lock: **3 fast-strobes (all LEDs)**, then LEDs turn off

Unlock:

- **1x Tap + Press & Hold** on the Modstrip unlocks the ring
- When locked, **1x Tap + Press & Hold performs Unlock only** (no device switching)
- Placing the ring on the charger also exits Palm Lock.

On-Charger Control

Use this when the ring is charging but you still want to maintain control, especially when the battery is very low.

Gesture:

- While the ring is on the charger, hold the Trackpad continuously for about 20 seconds.

Behavior:

- The ring temporarily exits the charging-only display state.
- Normal control functions become available while the ring remains on the charger.

- You can move the cursor, click, use gestures, switch modes, reconnect, or perform system commands.

LED feedback:

- During the approximately 20-second Trackpad hold, the normal charging battery-level breathing continues; touch activity keeps the charging display awake while the hold is being qualified.
- When the hold is confirmed, all three LEDs fast-strobe three times. The ring then plays the 1→2→3→2→1 major transition as it leaves charging-only mode and enters On-Charger Control.
- After activation, normal mode, gesture, connection, and system-command LED feedback resumes while the ring remains on the charger.

Exit:

- Remove the ring from the charger, or let the ring go to sleep/restart.

Note:

- For normal daily use, remove the ring from the charger before using it. On-Charger Control is designed for low-battery use, recovery, and testing while powered.

Connection Status Summary

LEDs are normally off between actions. The patterns below appear during pairing, manual connection attempts, successful manual connections, mode changes, charging, and system commands. Smart Connect automatic recovery is intentionally quiet and may occur with no LED animation.

- **Pairing / advertising:** all three LEDs breathe for about 3 seconds; afterward, a dim full-bar breath repeats about once every 5 seconds while discoverable.
- Manual connecting / switching hosts: one saved-device slot LED breathes. The active breathing LED changes when the ring tries another slot.
- Manual connection / pairing completed successfully: slot bar briefly → all three LEDs solid → fade-out. Smart Connect may reconnect silently.

Supported Devices

Prolo Ring connects to:

- Windows / macOS / Linux
- iOS / Android
- Tablets, phones, smart TVs

- VR headsets, AI glasses, projectors, media boxes

6. LED INDICATORS

The Prolo Ring uses three white LEDs for mode confirmation, gesture feedback, pairing and advertising, saved-device slot feedback, charging, and system commands. Mode-switch indicators always play when a valid switch gesture is recognized, including when you reselect the current mode. Disabled modes do not switch or show their mode indicator. Automatic Smart Connect recovery is intentionally quiet to reduce LED power use while the host may simply be asleep or temporarily out of range.

Mode Indicators (Swipe Gestures)

Mode	Trigger Gesture	LED Pattern
Cursor Mode	Swipe Left	LED1 flashes twice (●○○, ●○○)
Navigation Mode	Swipe Right	LED2 flashes twice (○○●, ○●○)
Touch Mode	Swipe Right + Hold	LED3 flashes twice (○○●, ○○●)
Air Mode	Swipe Left + Hold	All 3 LEDs flash twice (●●●, ●●●)

Gesture Feedback Ticks

Mode	LED Used	Pattern
Cursor Mode	LED1	One quick tick (●○○)
Navigation Mode	LED2	One quick tick (○○●)
Touch Mode	LED3	One quick tick (○○●)
Air Mode	LED3	One quick tick when an Air gesture is recognized (○○●)

Air Mode

Air-Ready: all three LEDs turn on briefly for about 2 seconds when the charging port is oriented downward and Air gestures are enabled. The indication is a short readiness hint rather than a continuous light.

Air Gesture Detected: LED3 quick flick once (○○●) when an air gesture is recognized.

System Commands (Tap + Hold Gestures)

System-level Tap + Hold commands use a preview bar followed by three flashes of that same bar. The command then continues with its own connection, pairing, status, shutdown, reset, OTA, or navigation-style indication.

Tap Preview (Bar Rule)

- **Taps 1–3:** normal-brightness 1-, 2-, and 3-bar previews.
- **Taps 4–6:** stronger 1-, 2-, and 3-bar previews.
- **Tap 7:** stronger 1-bar preview.

Hold Confirmation

- When the final press-and-hold is recognized, the selected preview bar flashes three times. It is not always an all-three-LED strobe; the number of lit bars follows the tap-count preview.

Abort Rule

- If the sequence is canceled by Trackpad contact or times out before the hold, the LEDs sweep down 3→2→1 and turn off.

System Command LED Reference

Gesture	Action	LED sequence
1× Tap + Hold	Connect / Switch / Unlock	1 bar → 1-bar flashes ×3 → selected slot LED breathes → slot bar / full bar / fade
2× Tap + Hold	Add Device / Refresh Pairing	2 bars → 2-bar flashes ×3 → all-LED pairing breath and dim heartbeat → slot bar / full bar / fade
3× Tap + Hold	Toggle Device / App Status	3 bars → 3-bar flashes ×3 → rising or falling sweep → reboot; App Status auto-advertises
4× Tap + Hold	Shutdown	Bright 1 bar → flashes ×3 → 1→2→3→2→1 transition → off

Gesture	Action	LED sequence
5× Tap + Hold	Factory Reset	Bright 2 bars → flashes ×3 → reset / reboot → automatic pairing advertising
Palm Hold	Palm Lock	All 3 LEDs flash ×3 → off until unlock or charging
6× Tap + Hold	Enter OTA / DFU	Bright 3 bars → flashes ×3 → reboot into DFUTarg
7× Tap + Hold	Toggle Navigation Style	Bright 1 bar → flashes ×3 → rising or falling sweep → reboot

Connection & Pairing Indicators

LED Pattern	Meaning
All 3 LEDs breathe for about 3 seconds	Pairing / advertising has started
Dim all-LED breath about once every 5 seconds	Pairing advertising remains active and discoverable
One slot LED breathes	Manual connecting or switching to that saved-device slot
No LED / LEDs remain off	Smart Connect automatic reconnect may be running quietly in the background
Two quick soft all-LED breaths	Pairing is already active, or App Status has just started / awakened
Slot bar briefly → all 3 LEDs solid → fade	Pairing or connection completed successfully

Charging Indicators

LED Pattern	Meaning
Transition sweep, then 1–3 battery-level bars briefly	Ring has entered charging and shows approximate battery level
Battery-level bar breathes for up to about 20 seconds	Charging display window
Solid 3 bars during the display window, then LEDs off	Fully charged; ring later sleeps while remaining on the charger

LED Pattern

All 3 LEDs fast-strobe ×3, then 1→2→3→2→1 transition

Meaning

On-Charger Control activated after the ~20-second Trackpad hold; normal control LED feedback resumes while the ring remains on the charger

Battery Indicators

LED Pattern

3-bar LEDs slowly breath

Meaning

Charging

All 3 LEDs blink three times, followed by shutdown transition

Critically low battery; ring powers off

Idle / Background Behavior

LED Pattern

LEDs off

Meaning

Normal idle between actions, or sleep

Mode / gesture ticks may be hidden

LED Display is set to System Only or Off in Ring Settings

State Transitions

LED Pattern

1→2→3→2→1 transition sweep

Meaning

Charging entry/exit, shutdown, wake, or another major power transition

Rising 1→2→3 sweep, then reboot

Entering App Status or Mobile Navigation Style

Falling 3→2→1 sweep, then reboot

Entering Device Status or Desktop/XR Navigation Style

Two quick soft all-LED breaths

App Status startup / wake reminder

Quick Reference Summary

Category

Mode switching

LED Behavior

Cursor: LED1 ×2 | Navigation: LED2 ×2 | Touch: LED3 ×2 | Air: full bar ×2

Gesture feedback

Cursor LED1; Navigation LED2; Touch/Air LED3 quick tick

Category	LED Behavior
System commands	Tap-count preview bar; same bar flashes three times after Hold
Pairing / advertising	All-LED breathing, then a dim heartbeat about every 5 seconds
Connection / switching	Manual connect/switch: one saved-device slot LED breathes; Smart Connect recovery may be silent
Connected	Manual pairing/connection: slot bar → all 3 solid → fade; Smart Connect may complete silently
App Status	Rising sweep and reboot; two quick breaths; automatic advertising
Charging	Battery-level bar breathes for up to about 20 seconds
Critical battery / shutdown	Three full-bar blinks, then transition sweep and off
On-Charger Control	Charging breath during hold → all 3 LEDs strobe ×3 → 1→2→3→2→1 transition → normal control LEDs

7. CUSTOMIZATION WITH PROLO STUDIO

Prolo Studio 1.0.7

Prolo Studio is the desktop companion app for registering rings, adjusting device-wide settings, editing profiles, assigning actions, practicing gestures, searching built-in help, checking for software updates, and updating ring firmware. It is available for Windows, macOS, and Linux.

Download Prolo Studio: proloing.com/downloads

Prolo Studio is optional for normal Bluetooth HID use. Use the app when you want to configure the ring. After you Flash a profile, the selected profile is stored on the ring and works without Prolo Studio running.

- Current app version: Prolo Studio 1.0.7 (this manual shows Build 20260821)
- Supported firmware: Firmware 1.0.7 and compatible 1.0.7 maintenance builds
- One ring can be connected at a time; multiple rings can be registered

Device Status and App Status

Prolo Ring uses two operating statuses. Device Status is the normal plug-and-play Bluetooth HID status. App Status is used when Prolo Studio needs to connect directly to the ring for setup and customization.

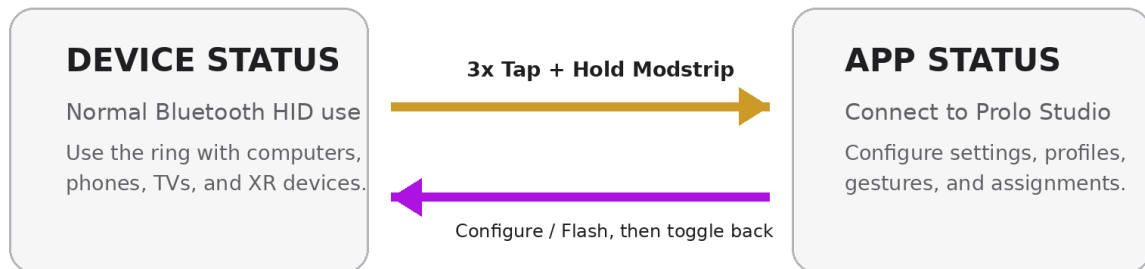


Figure 7-1. Switch between Device Status and App Status with 3x Tap + Hold on the Modstrip.

Device Status

- Works as a standard Bluetooth mouse, keyboard, media controller, and remote.
- No software is required for normal use.
- Use Device Status with computers, phones, tablets, smart TVs, media devices, VR/XR headsets, and compatible AI glasses.

App Status

- Connects directly to Prolo Studio for configuration, profile editing, testing, and diagnostics.
- After the status-change reboot, the ring automatically advertises with its App Mode name, such as Prolo App Ring. The LEDs give two quick soft all-LED breaths, followed by the dim advertising heartbeat.
- After configuration and Flash, switch back to Device Status for normal use and the full native gesture experience.

Toggle Device Status / App Status: 3× Tap + Hold on the Modstrip. A rising sweep indicates App Status; a falling sweep indicates Device Status. The ring then reboots.

Rings & Connections

Open Configuration and select Rings & Connections to register multiple Prolo Rings and choose which one Studio currently controls. Recently connected rings appear first. Only one ring can be connected at a time.

1. Put the ring into App Status using 3× Tap + Hold on the Modstrip. Wait for the rising sweep, reboot, two quick all-LED breaths, and automatic advertising.
2. Open Configuration > Rings & Connections.
3. Select Add ring to register a new ring.
4. Choose a registered ring to connect, disconnect, rename, or forget it.
5. If the ring is already in App Status but is not advertising, use 2× Tap + Hold to start or refresh the approximately 60-second advertising window, then try connecting again.

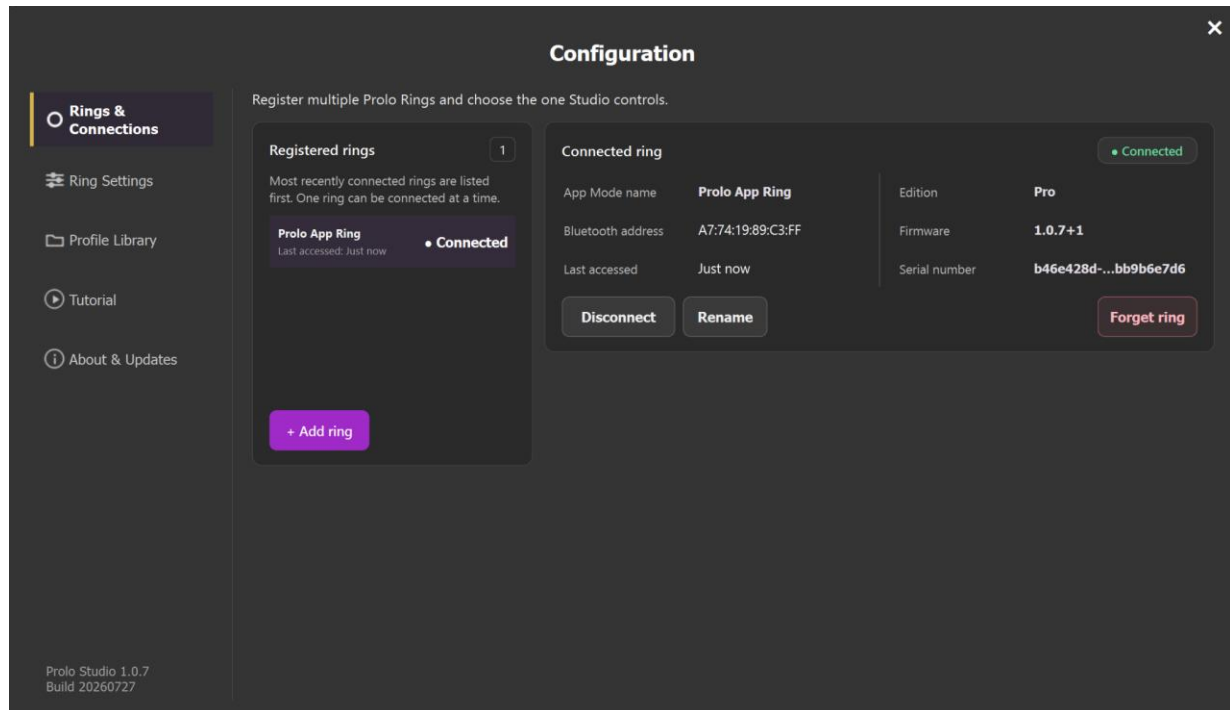


Figure 7-2. Rings & Connections shows registered rings and the connected ring details.

Main Editor

The Main Editor is the primary workspace for reviewing gestures and assigning actions. The layout is organized into Mode, Gesture, Preview, and Action areas.

- Mode: choose System, Cursor, Navigation, Touch, or Air.
- Gesture: select the gesture you want to review or change.
- Preview: view the gesture name, description, and animation.
- Action: review or assign No Action, Keyboard Shortcut, Media Control, Mouse Action, Open App, or Macro Sequence.
- Top bar: choose a profile, open Profile Settings, Save as Profile, Flash, or open Configuration.
- Bottom bar: view connection status, battery, current mode, and the last detected gesture.

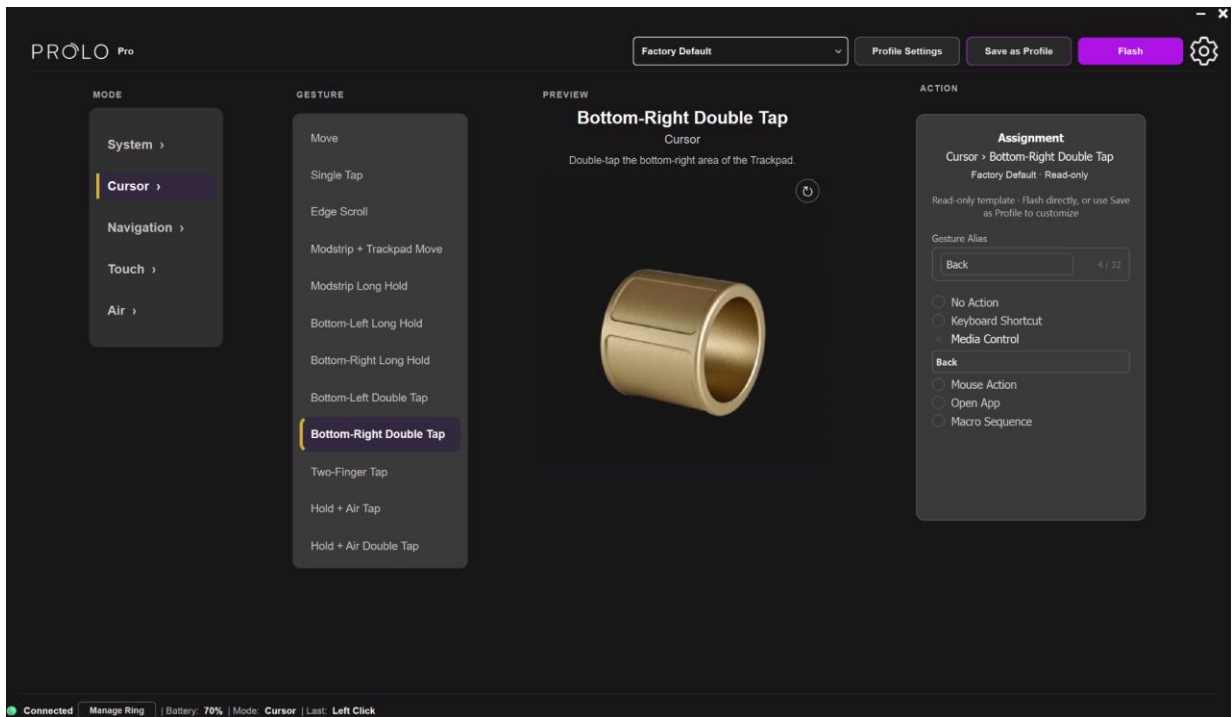


Figure 7-3. Main Editor with Factory Default selected as a read-only template.

Factory Default is read-only. You can Flash it directly when supported, or use Save as Profile to create an editable copy.

Profiles and Profile Library

Prolo Studio separates profiles into three customer-facing types:

- **Factory Default:** the read-only template representing the original shipping configuration.
- **Ring Profile:** the latest profile read from a registered ring. Opening it does not change the hardware until you Flash.
- **Saved Profile:** an editable profile stored in Prolo Studio.

Use Profile Library to open, copy, rename, delete, import, and export profiles. A typical workflow is to open Factory Default or a Ring Profile, create a copy, edit the copy, and Flash it to the ring.

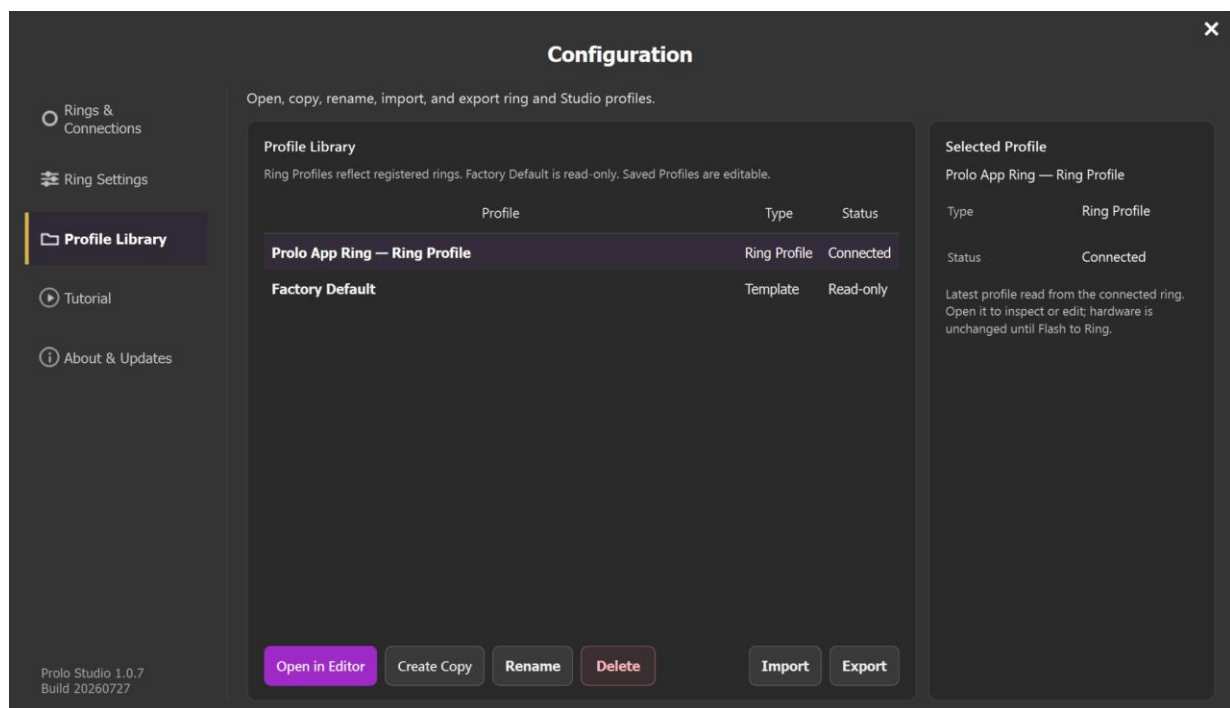


Figure 7-4. Profile Library manages Ring Profiles, Factory Default, and Saved Profiles.

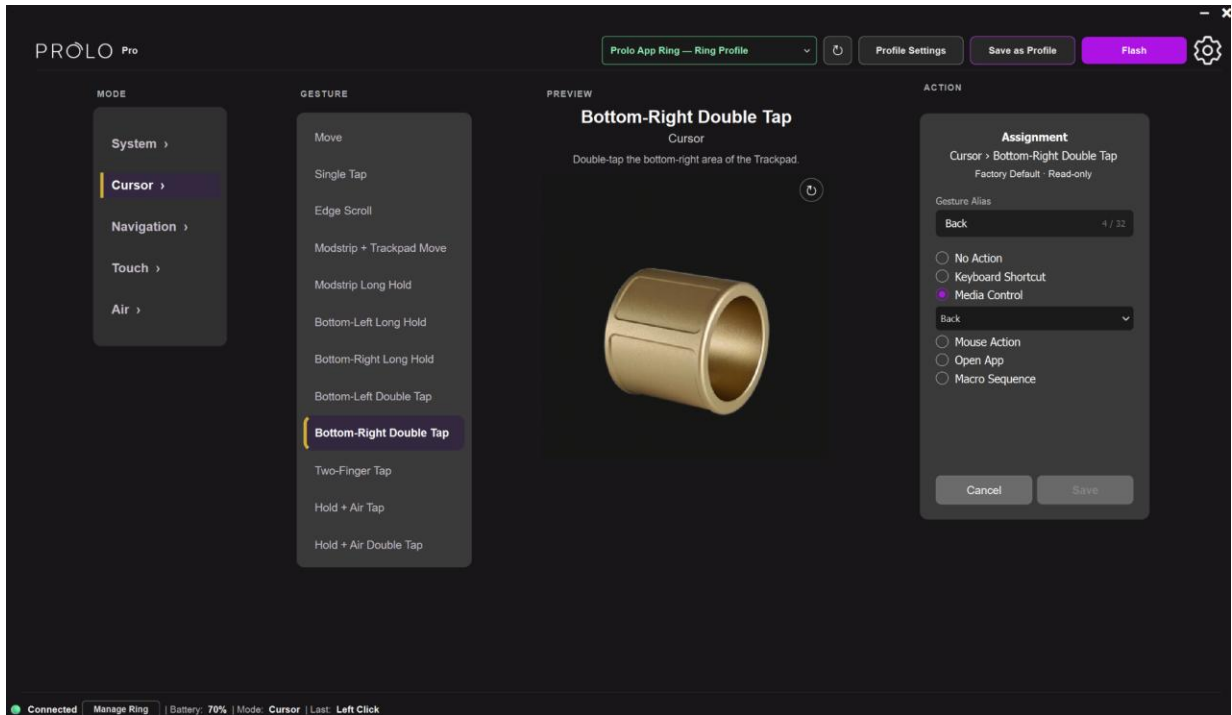


Figure 7-5. A connected Ring Profile can be opened in the Main Editor and saved as a reusable profile.

Assigning an Action

Select a gesture in the Main Editor, then choose an action type in the Assignment panel. The available action types depend on the ring edition and the selected gesture.

- **No Action:** disables output for the selected gesture.
- **Keyboard Shortcut:** assigns keys, modifiers, or combinations such as Ctrl + Windows.
- **Media Control:** assigns media and application controls such as Play/Pause, Mute, Back, or Forward.
- **Mouse Action:** assigns click, drag, scroll, and related mouse functions.
- **Open App:** launches a selected application.
- **Macro Sequence:** combines key inputs, mouse actions, media controls, app launches, and delays.

Gesture Alias provides a short descriptive name that appears with the assignment. Choose Save when editing an editable profile. Use Flash to write the selected profile to the ring.

Profile Settings

Profile Settings chooses which modes and gesture groups are available inside the selected profile. Disabling unused groups can simplify the ring and reduce accidental triggers.

- **Available Modes:** Cursor, Navigation, Touch, and Air.
- **Cursor Gestures:** Bottom-Left and Bottom-Right Virtual Buttons, Edge Scroll, Air Taps, Modstrip + Trackpad Move, Two-Finger Tap, and Joystick Assist.
- **Navigation Mode:** Horizontal Swipes, Vertical Swipes, Tap Gestures, Pinch Gestures, Edge Scroll, and Long Hold.
- **ModNav Mode:** Horizontal Swipes, Vertical Swipes, and Tap Gestures.
- **Touch and ModTouch:** horizontal swipes, vertical swipes, tap gestures, and supported long-hold behavior.

Navigation Long Hold is enabled by default and is assigned to Ctrl + Windows with hold-until-release behavior. Touch Long Hold is disabled and has No Action by default. When Multi-tap recognition is enabled in Ring Settings, Navigation and Touch also support Trackpad Tap + Hold for temporary Joystick Assist cursor control. This physical Tap + Hold access gesture is separate from the assignable Long Hold action.

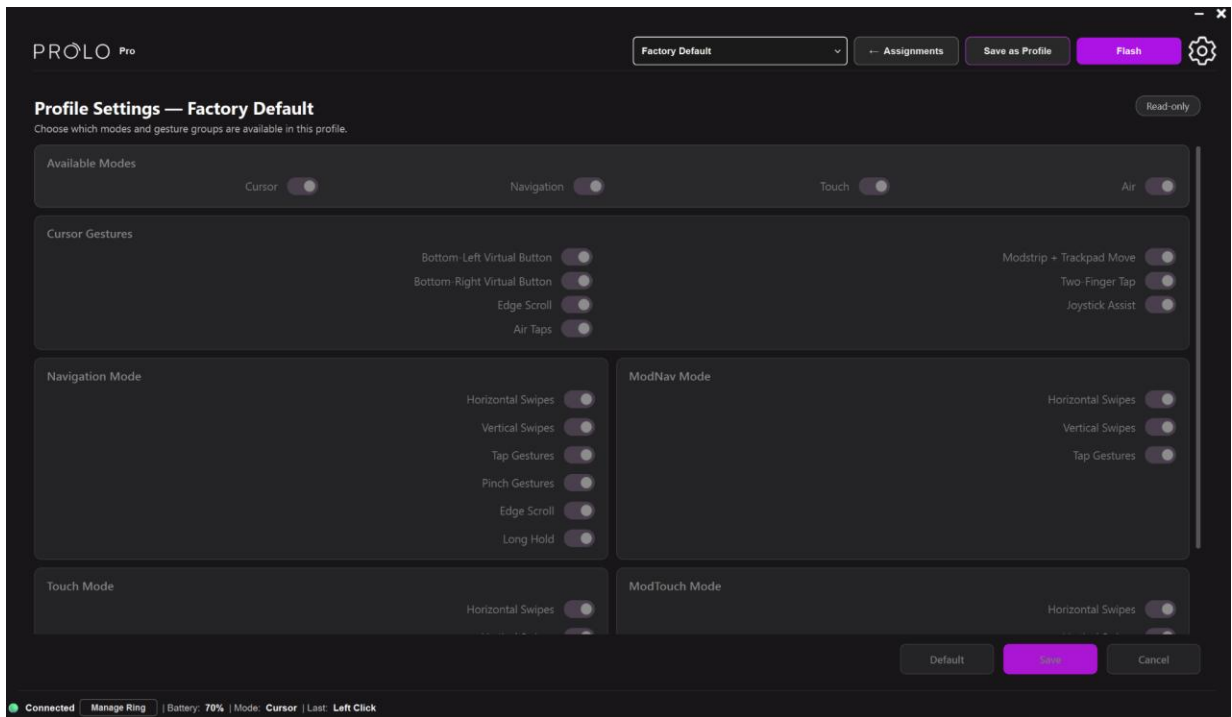


Figure 7-6. Profile Settings for Factory Default. Read-only templates show a Read-only badge.

Ring Settings

Ring Settings contains live device-wide preferences for the connected ring. These settings apply across profiles, while Profile Settings controls which gesture groups are enabled in one profile.

- **Cursor speed:** adjusts general pointer speed.
- **Multi-tap recognition:** recognizes double and triple taps across modes and enables the Navigation / Touch Trackpad Tap + Hold temporary cursor gesture. This may add a short delay before single-tap actions.
- **Left-hand Air orientation:** reverses Air-mode orientation for left-hand use.
- **Edge Scroll:** controls invert direction, left/right side, stepped/continuous style, and scroll speed.
- **Auto-sleep:** chooses when the connected ring enters sleep.
- **LED display:** chooses which LEDs remain active.
- **LED brightness:** adjusts the brightness of active LEDs.

Edge Scroll behavior is shared device-wide, but Cursor and Navigation Edge Scroll must still be enabled in the selected profile.

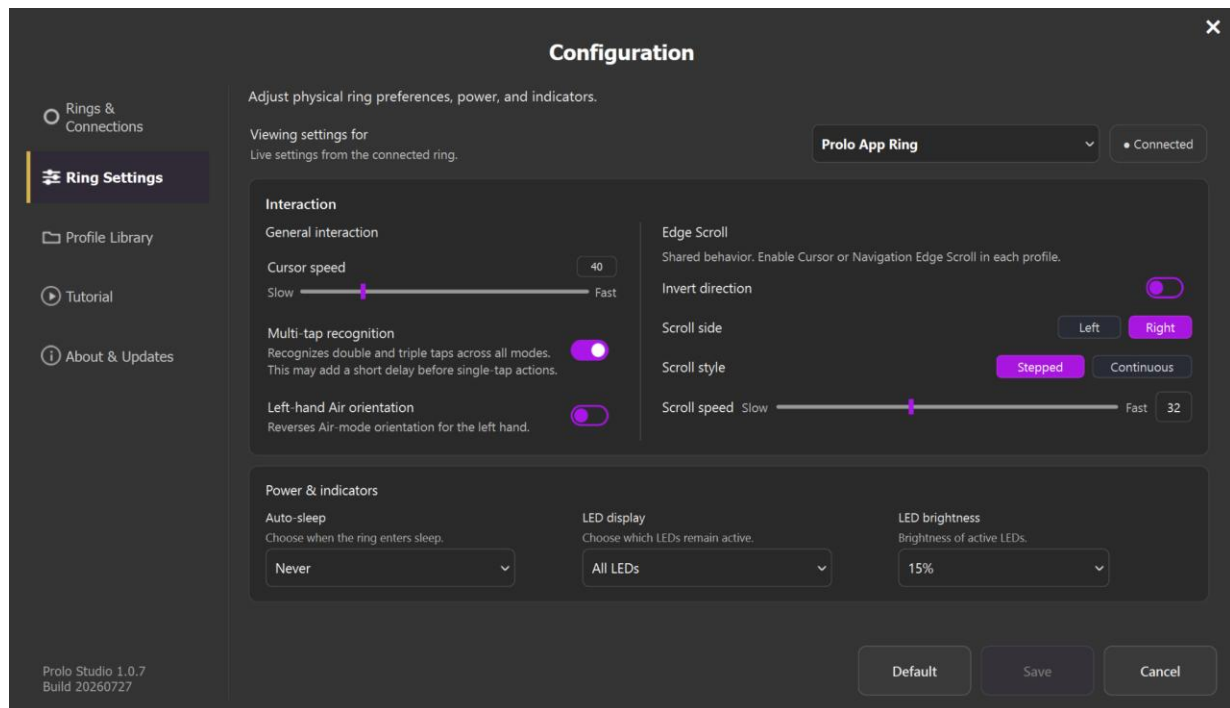


Figure 7-7. Ring Settings contains device-wide interaction, power, and LED preferences.

Learn & Practice: Tutorial and Prolo Playground

The Learn & Practice page provides guided Tutorial lessons with live input detection, plus access to Prolo Playground. Complete each lesson to continue through the course.

- Quick Start: essential controls and ring surfaces.
- Cursor Mode: cursor movement, clicking, scrolling, dragging, Joystick Assist, and automatic Joystick Boost.
- Navigation Mode: navigation swipes, taps, Tap + Hold temporary cursor control, pinch gestures, ModNav, and Push-to-Talk long hold.
- Touch Mode: media controls, Tap + Hold temporary cursor control, and ModTouch controls.
- System & Safety: connection commands, status switching, Palm Lock, shutdown, reset, and OTA entry.
- Open Prolo Playground for additional gesture practice.
- Open Video Tutorials for additional tutorials

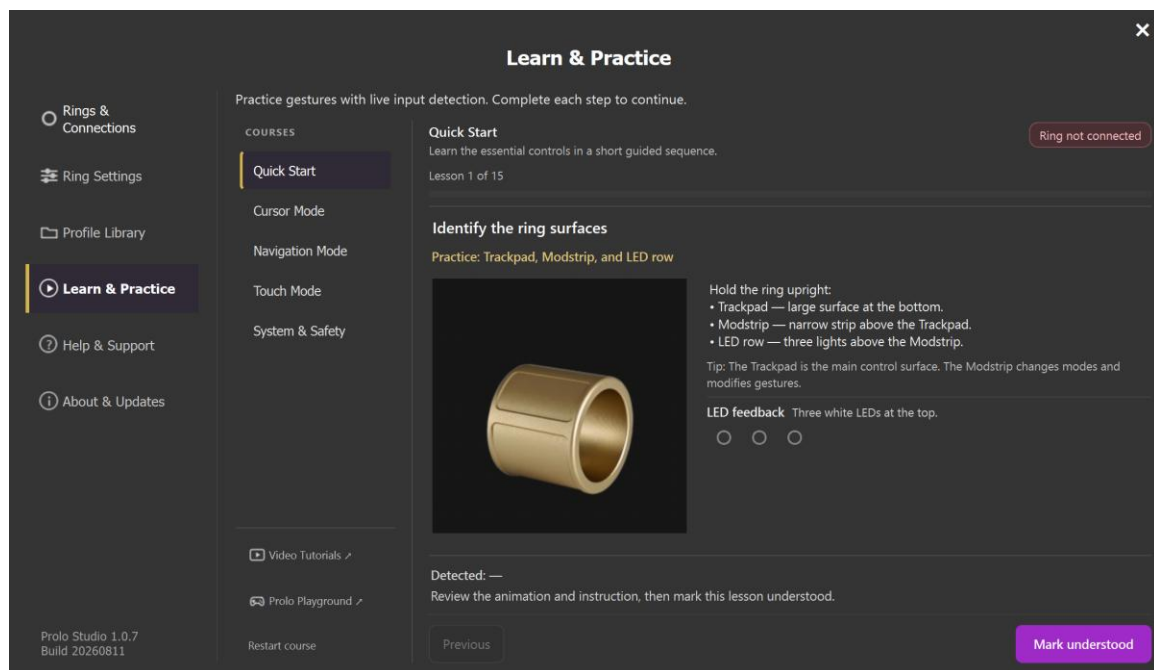


Figure 7-8. Tutorial view within Learn & Practice, with instruction, animation, LED feedback, live gesture detection, and access to Prolo Playground.

Help & Support

Help & Support provides searchable setup and troubleshooting guidance without leaving Prolo Studio. Search the local help database by keyword or filter by topic to find instructions for Bluetooth connections, gestures, Prolo Studio, firmware, charging, and common troubleshooting questions.

- Search help: enter terms such as pairing, cursor, firmware update, charging, or Studio connection.
- Topic filter: narrow results by category or leave All topics selected.
- Help topics: popular articles are shown first; choose an article to view step-by-step guidance in the detail panel.
- Contact Support: open the support contact path when the built-in article does not resolve the issue.
- View Full FAQ: open the complete online FAQ for additional detail.

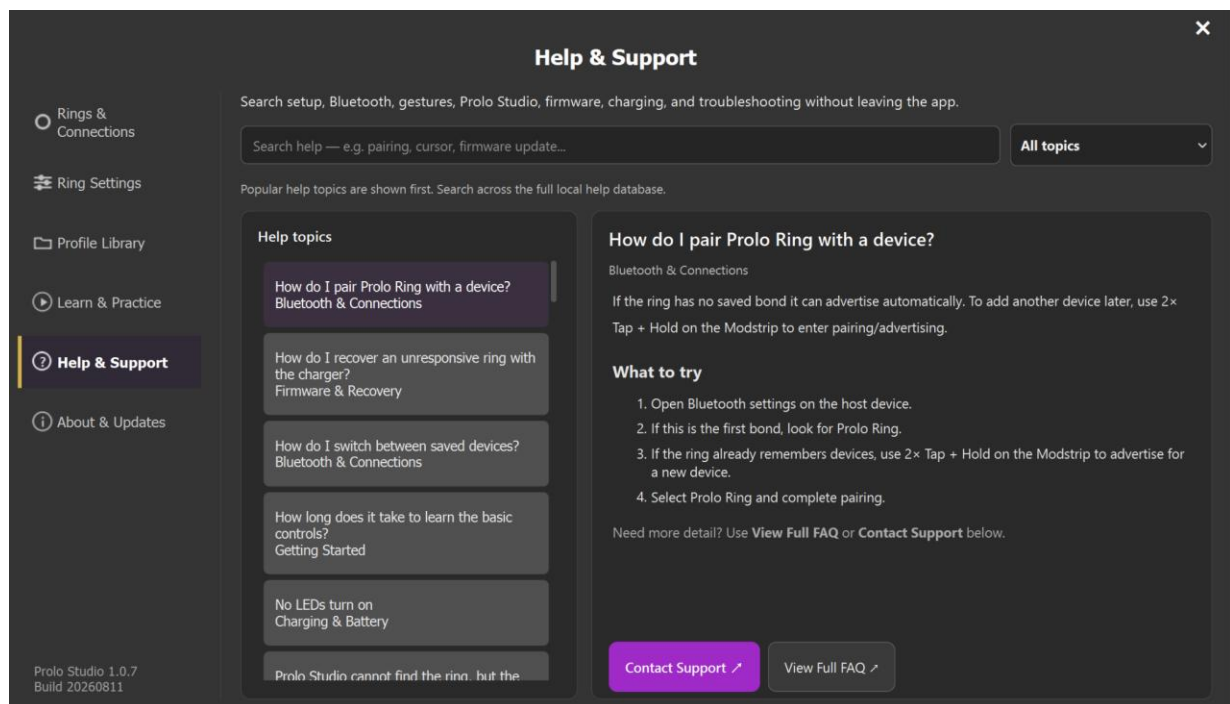


Figure 7-9. Help & Support searches the built-in local help database and provides links to the full FAQ and support.

Accessibility and Keyboard Navigation

Prolo Studio supports keyboard navigation for users who prefer or require non-mouse operation. Operating-system dialogs may follow the keyboard conventions of Windows, macOS, or Linux.

- Tab: move focus through the top bar, menus, gesture list, action panel, settings, and dialogs.
- Arrow keys or D-pad: move through menu items, lists, and value options.

- Enter: select the focused item, open a control, or confirm a value.
- Esc: close a menu, dropdown, or dialog, or cancel the current edit.

About & Updates

About & Updates shows the installed Prolo Studio version, build, and platform; checks for Studio software updates; and provides the direct Ring Firmware Update workflow.

Under Ring firmware, Studio shows the Current Prolo release and provides Update Ring Firmware and Update Instructions. The updater uses the computer's Bluetooth adapter directly and keeps Nordic Secure DFU signature validation enabled. If a ring is already in DFUTarg mode, the update can be started even when no ring is selected.

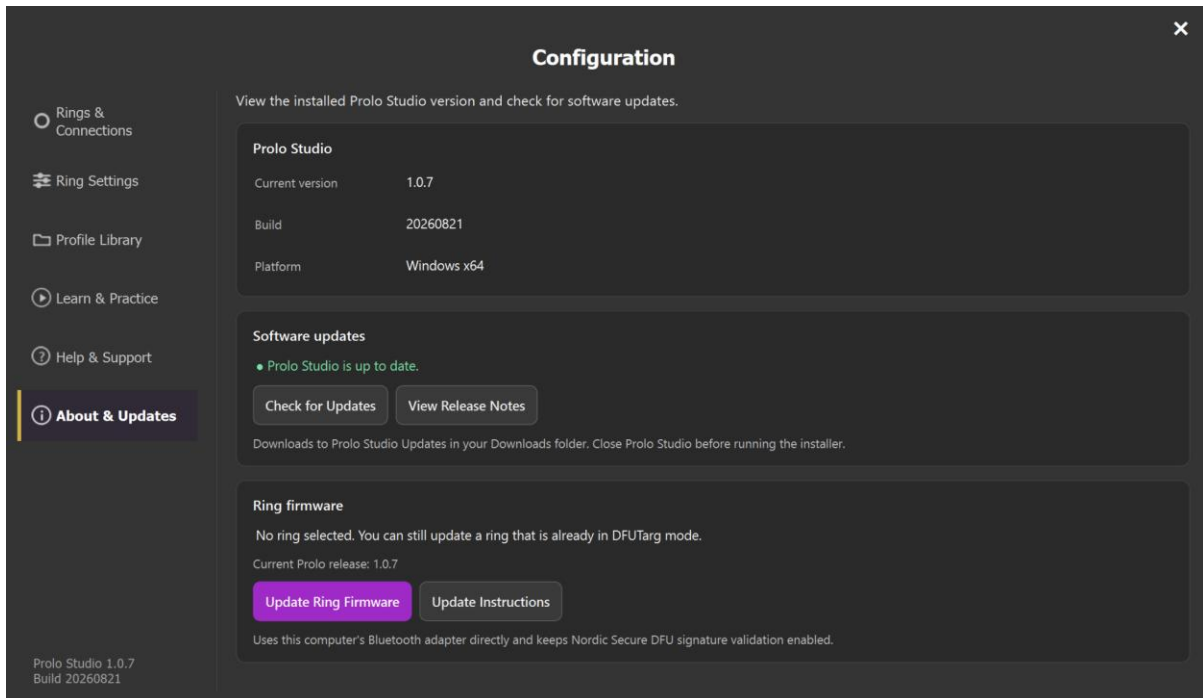


Figure 7-10. About & Updates includes Studio software updates and direct Ring Firmware Update.

Returning to Normal Use

1. Save the profile if you want to keep an editable Studio copy.
2. Select Flash to write the chosen profile to the ring.
3. Wait for Flash to complete and for Studio to reconnect.
4. Use 3x Tap + Hold on the Modstrip to return the ring to Device Status.
5. Connect the ring to the computer, phone, tablet, TV, or XR device you want to control.

8. TROUBLESHOOTING & RESET

Prolo Studio 1.0.7 requires Firmware 1.0.7 or a compatible 1.0.7 maintenance build. Studio-related troubleshooting below uses the current Rings & Connections and Ring Settings names. For in-app guidance, open Help & Support and search the local help database before moving to the full FAQ or contacting support.

Common Issues & Fixes

Issue	Likely Cause	What to Try (in order)
No LED lights	Battery fully drained / device shutdown	1) Charge for 10+ minutes using a wall charger and the charging cable (Do not use charging case or power bank or PC USB ports) 2) Try Forced Reboot (see below)
OS can't connect / ring won't pair	Already bonded to another host / OS grabbed it / stale pairing	1) On the host: Forget/Remove all "Prolo Ring" entries 2) Manual Advertise: 2× tap + press & hold (Modstrip) 3) If multi-host: temporarily turn off Bluetooth on the other host and retry
Cursor doesn't move	Wrong mode / ring asleep / palm lock	1) Wake: tap Modstrip → look for LED 2) Cursor Mode: swipe left (Modstrip) 3) Touch trackpad → LED 1 flickers 4) If locked: Unlock (Palm Lock): 1× tap + press & hold
Connection drops / frequent disconnect	Temporary RF loss / host asleep / auto-sleep / restricted environment	1) Wait briefly or touch the Trackpad: Smart Connect automatically retries the last bonded device after wake and unexpected link loss. 2) If you want an immediate manual reconnect, use 1× Tap + Hold on the Modstrip. 3) In Prolo Studio, set Auto Sleep longer or Never while connected if

Issue	Likely Cause	What to Try (in order)
		needed. 4) Open Help & Support in Prolo Studio and search the connection topic for additional guidance.
Prolo Studio can't find the ring (but OS can)	Ring is in Device Status (HID mode), not App Status	1) Toggle Device Status / App Status: 3x Tap + Hold on the Modstrip 2) Open Prolo Studio > Rings & Connections and connect the registered ring 3) If the ring is already in App Status but not advertising, use 2x Tap + Hold, then try again
Ring displays LED on charger, but is not responsive when charger is removed	Rare stuck state condition	1) Keep the ring on the charger. 2) Hold the Trackpad continuously for about 20 seconds to enable On-Charger Control. 3) Check whether normal control works while the ring is still on the charger, such as cursor movement, clicks, gestures, or system commands. 4) If control works, try 4× Tap + Press & Hold on the Modstrip to shut down the ring. 5) For best results, when the shutdown animation starts, remove the ring from the charger. Wait a few seconds, then place it back on the charger to boot cleanly. 6) If the issue continues, use 5× Tap + Press & Hold on the Modstrip to reset the ring and clear all bonds, then pair again.
Repeating LED flashes on boot (error state)	Rare post-OTA / startup error condition	1) Try Forced Reboot 2) If repeating pattern persists, contact support with OS + LED pattern details
Studio reports	Ring firmware is older than the	Update the ring to Firmware 1.0.7 or a compatible 1.0.7 maintenance build,

<i>Issue</i>	<i>Likely Cause</i>	<i>What to Try (in order)</i>
incompatible firmware	Studio 1.0.7 requirement	then reconnect in Rings & Connections.
Battery shows - or is temporarily unavailable	Studio is waiting for a stable battery reading	Keep the ring connected and allow up to about 60 seconds for the first stable battery value.
Ring was reset but will not pair	One or more hosts still retain stale Bluetooth bonds	Forget every old Prolo Ring entry on all previously paired phones, computers, tablets, TVs, and Studio installations. Then place the ring in pairing mode and pair again.

Quick Checklist (fast diagnosis)

- ***Awake Check:*** Tap Modstrip → ***any LED on***
- Smart Connect Check: after wake, charger removal, or a brief link loss, allow the ring to reconnect automatically before using 1× Tap + Hold.
- ***Cursor Mode Check:*** Touch trackpad → ***LED 1 flickers***
- ***Charging Check:*** Connect charger → ring shows ***charging animation*** (do not rely on case LED)

Key Controls (gestures)

Smart Connect normally handles routine reconnection automatically; 1× Tap + Hold remains the manual connect / switch / unlock command.

- ***Unlock (Palm Lock):*** 1× tap + press & hold (Modstrip)
- ***Enter Cursor Mode:*** Swipe left (Modstrip)
- ***Manual Advertise / Broadcast:*** 2× tap + press & hold (Modstrip)
- ***Toggle Device / App Status:*** 3× tap + press & hold (Modstrip)
- ***Charging / Forced Reboot:*** use the included charger/cable (see below)

Important Notes (Device vs App Status)

- **Device Status** = normal Bluetooth HID use (mouse/gestures on any OS)
 - **App Status** = Prolo Studio connection for configuration **only** (OS input may be blocked so Studio can connect)
-

Forced Reboot (Charging Contact Method)

Use this if the ring is unresponsive, stuck after OTA, or won't reconnect.

1. **Connect the charger/cable** to 5V wall power.
2. Place the ring on the charging contacts.
3. **Wiggle / rub the ring's charging contacts** against the charger pins a few times to re-trigger charging detection.
4. Watch for the **charging animation / LED response**.
5. Once it responds, wait a few seconds, then try pairing/connecting again.

If the issue repeats often: please contact support.

When to Contact Support

If you still have issues after trying the steps above, open Prolo Studio > Help & Support and search the issue first. You can then use View Full FAQ or Contact Support from the app. If contacting us directly at hello@proloing.com, include:

1. **OS + version** (Win10/Win11/macOS/iOS/Android)
 2. Exact symptom + **which tutorial step** you tried and where it deviates
 3. Whether you're using **built-in Bluetooth** or a **USB dongle/adaptor** (model if possible)
 4. Any company/security policies (managed devices, Bluetooth restrictions, etc.)
 5. Best: a short **video clip** + description of any **LED patterns** (especially repeating boot flashes)
-

Important Startup Note

- *If the LED shows a repeating error pattern during startup or after several reboot, it indicates an error state. Please contact support and include **your OS + the LED pattern** you're seeing.*

9. SPECIFICATIONS

Prolo Ring — Specifications

Feature	Specification
Control Surface	18 × 30 mm capacitive touch
Resolution	512×896
Touch Report Rate	50 Hz (20 ms active mode)
Sizing	US 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 <i>(fits size 6 with sizing adjuster)</i>
Weight	4.1 g – 5.2 g
Width	23 mm
Thickness	2.9 mm
Color Options	Champagne Gold, Future Silver, Carbon Black, Rose Gold
Materials	Biocompatible PC shell
IC	High-precision touch sensor, 6-axis motion sensor, BLE SoC
Battery Life	Up to 10 hours (typical use)
Charge Time	< 30 min
Compatibility	Windows, macOS, Linux, Android, and iOS/iPadOS; compatible TVs, media boxes, VR/XR headsets, and AI glasses supporting Bluetooth HID.

Prolo Ring Case Charger — Specifications

Feature	Specification
Battery Capacity	Li-Po 800 mAh
Extended Use	Up to 30 days of recharges
Charging Method	USB Type-C
Charging Time	~120 minutes (full charge)
Charging Cycles	500 cycles

10. Installing the Size Reducer Shim (Fit Adjustment)

The size reducer shim helps tighten the fit if you are **between sizes** and chose the larger size for comfort

What you need

- Size reducer shim strip (included)
- Scissors
- (Optional) ruler

Recommended placement

Place the shim **behind the touchpad area** (the inside wall opposite the charging port opening).

This improves stability while keeping the charging contacts clear.

Step-by-step

1. **Power off or remove the ring** from your finger.
2. **Cut the shim to length:** start with **35 mm**.
 - If you need a tighter fit later, you can replace it with a slightly longer or thicker shim.
3. **Clean and dry** the inside of the ring (oil/sweat can weaken adhesion).
4. **Peel the backing** off the adhesive side of the shim.
5. **Align and stick** the shim **inside the ring behind the touchpad area**.
 - Press firmly for **10–15 seconds** along the full length.
6. **Test the fit** by wearing the ring for a few minutes and doing a few gestures.
7. If the fit is still loose, remove and repeat with a slightly longer shim or a second layer.



Tips

- Do **not** cover the **charging contacts** or the **charging-port opening**.
 - If the ring feels too tight, remove the shim and trim it shorter before reinstalling.
 - For best results, do a short “test wear” (5–10 minutes) before finalizing.
-

11. SUPPORT & WARRANTY

- Avoid exposure to high humidity or direct heat while charging.
- Avoid wearing for longer periods of time or overnight.
- Do not rinse or immerse in water.
- Use only the official charging accessories.
- For in-app guidance, open Prolo Studio > Help & Support. For the full FAQ and updates, visit proloing.com/pages/faq.
- Contact us at **hello@proloing.com** for warranty or repair inquiries.

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