

K70 PRO TKL

HALL EFFECT PROGRAMMABLE KEYBOARD WITH RAPID TRIGGER

*Read this first-Before your first use:Please download the latest firmware via iCUE.




GETTING TO KNOW YOUR KEYBOARD



- A. GAME MODE BUTTON
- B. MEDIA BUTTON
- C. ROTARY DIAL
- D. CAPS AND SCROLL LOCK INDICATORS
- E. USB TYPE-C PORT
- F. USB TYPE-C TO TYPE-A CABLE

TECHNICAL SPECIFICATIONS

FEATURE	DESCRIPTION
Form Factor	Tenkeyless
Top Cover	Aluminium plate
Bottom	Plastic
Sound Absorbing Foam	Silicone
Case Foam	Silicone
Palm Rest	Magnetic cushioned palm rest
Colorway	Black or White
Keycaps (NA Layout)	ABS Double shot
Keycaps (Non-NA Layout)	ABS Paint
Keycaps (NA SKU)	PBT Double shot
Backlighting	Per-key programmable RGB
LED Color	RGB
Keyswitches	<p>61 keys (ANSI layout) or 62 keys (ISO layout) or 65 keys (JP layout): CORSAIR MGX Hyperdrive magnetic pre-lubricated keyswitches, 30-55g actuation force, 0.1-4.0 mm* actuation distance (in 0.1mm steps), 4.1mm total travel, guaranteed for 150 million keystrokes.</p>  <p>*Via firmware update in September iCUE update in v5.20</p> <p>*For optimal accuracy, the recommended range is 0.3mm-3.6mm. Setting the actuation outside the recommended range may result in higher sensitivity and effect consistency.</p> <p>23 keys: CORSAIR MLX Plasma linear mechanical pre-lubricated keyswitches, 45g actuation force, 2.0mm actuation distance, 4mm total travel, guaranteed for 80 million keystrokes.</p>
Connectivity	USB 3.0 Type-A
Matrix	Full key rollover (NKRO) with 100% anti-ghosting
USB Report Rate	Up to 8,000Hz hyper-polling with CORSAIR AXON
On-Board Profiles	5

Media Control	Hotkey*1
Game Mode	Hotkey*1
Brightness Control	FN shortcuts/Rotary dial
Adjustable Height	Yes
Plug and Play Operation	Yes
Console Compatibility	Xbox One, Xbox Series X S, PlayStation 4, 5
Cable	1.8m/6ft, USB Type-C to Type-A, black, tangle-free rubber
Dimensions	366(L) x 135(W) x 39.8(H)mm
Weight	967.14g
Warranty	Two years - Local country regulations are applicable

CORSAIR MGX HYPERDRIVE MAGNETIC KEYSWITCHES

CORSAIR MGX Hyperdrive magnetic keyswitches offer a super smooth, quiet, and wobble free typing feel that can be programmed to detect the keystroke at anywhere from a 0.1mm to 4.0mm* actuation distance, putting you in full control over how sensitive each key press is to ensure the gaming and typing experience is suited to you.



AXON HYPER-PROCESSING TECHNOLOGY

CORSAIR AXON delivers a powerful and responsive keyboard experience with:

- Hyper-fast keystroke detection and processing.
- Up to 8,000Hz hyper-polling (adjustable in iCUE device settings).
- Up to 20-layer onboard lighting effects (programmable in iCUE per profile).



SETTING UP YOUR KEYBOARD





Connecting the keyboard via USB cable to an available USB 2.0 Type-A port or better on a compatible device including:

Windows PC®	Apple Mac®	Microsoft Xbox One* Microsoft Xbox Series X S*	Sony PlayStation 4** Sony PlayStation 5**
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*Keyboard is compatible out of the box, see corsair.com/xbox-support for details. **See Connecting to Sony PlayStation section.

CONNECTING TO SONY PLAYSTATION

The keyboard also has a special mode to support Sony PlayStation 4 and 5 that can be activated via shortcut.

SHORTCUT	FUNCTION	REMARK
FN+  (Hold for 5 seconds)	Switch to PlayStation mode	 Blinks white 5 times over 5 seconds
FN+  (Hold for 5 seconds)	Switch back to standard mode	 Pulses white 2 times

NOTE: Available functions may be limited depending on gaming console support and application.

OPERATING MODES

The keyboard features two operating modes:

- 1. Hardware Mode** - When iCUE is not running or the keyboard is connected to a device that does not support iCUE, the keyboard operates in hardware mode, which uses profiles and settings saved to the onboard storage.
- 2. Software (S/W) Mode** - When iCUE is running on a PC or Mac and the keyboard is connected via USB wired.
 - When iCUE is running the keyboard operates in software mode and is controlled by iCUE.
 - Download iCUE from corsair.com/downloads and install on a Windows PC or Apple Mac to connect all of your CORSAIR iCUE compatible products together in a single interface, giving you complete control of everything from lighting to powerful macros.



FUNCTION	HARDWARE MODE	SOFTWARE MODE
Storage & Profiles	1MB for up 5 profiles	Unlimited
Create New Profiles	N/A	Create in iCUE
Create Lighting Effects	N/A	Create in iCUE
Create Key Assignments	N/A	Create in iCUE
Maximum Lighting Layers	20	Unlimited

FLASHTAP (SOCD)

FlashTap is a revolutionary technology that puts the player in complete control of their movement keys, left and right in particular, optimizing SOCD behavior across every game and genre.

FlashTap will be disabled by default both in HW mode and iCUE.

HW mode behavior (September 2024 via FW update)

- Non-profile dependent, enable via shortcuts: FN + Right SHIFT
- Supports key A + D, last priority only
- Indication: A & D stay solid amber when FlashTap is on (overrides existing lighting)

iCUE behavior (Q1 2025)

- Supports advanced feature such as mode selection and key remapping
- Can be configured with profile
- Mode selection details

Last priority (default when on)	Always output last direction and bypass the other one
Neutral	No output when both directions are triggered at the same time
First priority	Always output first direction and bypass the other one

FlashTap can also be enabled via Game Mode button

- Default off
- Global settings design and will overwrite profile settings

- Only support A and D keys, and “Last Priority”

HARDWARE OVERVIEW

FN SHORTCUTS LIGHTING INDICATOR

When pressing the FN key, all lighting will momentarily turn OFF except for keys that have secondary functions and macros assigned to them, which will have backlighting turned ON.

- The default color will be WHITE.
- Users can customize the color indication in iCUE.

Color indication for profile currently in-use will take priority over FN Shortcuts lighting.

GAME MODE BUTTON (A) FUNCTION


Enter competition-optimized setting via one click on Game Mode Button.

Reminder: Turn on Game Mode BEFORE gameplay to avoid 1 sec of idle time.

	FUNCTION	REMARK	HARDWARE	SOFTWARE (iCUE)
Default Mode (Game Mode off)	<p>Game Mode off:</p> <ul style="list-style-type: none"> • Default polling rate (1000Hz) • Rapid trigger off • Win lock off • Revert to playing current lighting playback 	Factory default	No	No
Game Mode on	<p>Game mode on:</p> <ul style="list-style-type: none"> • USB Wired Polling rate: 1000Hz customizable up to 8000Hz. • There could be up to 1 sec of switching time if you set a different polling rate within. Game Mode vs default 1K • Win lock on • Rapid trigger (all MGX keys): On <ul style="list-style-type: none"> ◦ Actuation point and sensitivity can be adjusted via shortcut keys (see Table A & Table B). ◦ Secondary actuation points settings and reset points will be overwritten if Rapid trigger is on. • Static Color Enforced: On <ul style="list-style-type: none"> ◦ Lighting goes back to predefined lighting when it's off. • Animate Game Mode Activation: On • Indication: Red, can be customized under iCUE <p>Before Nov 2024</p> <ul style="list-style-type: none"> • Game Mode is non-profile design. Actuation Point: 1mm • Sensitivity: 0.1mm <p>Note: due to non-profile design, all settings activated by Game Mode will override any profile settings.</p> <p>Q1 2025 onwards</p> <ul style="list-style-type: none"> • Add Actuation point and sensitivity value settings in Game Mode Setup tab • Add FlashTap (SOCD) toggle 	Can be customized in iCUE	Yes	Yes

HARDWARE ACTUATION SETTING (TABLE A)



1. Hold FN +  for 2 seconds until keyboard lighting turns off except for ESC, F1-F12, 2-0, -_ and =+ keys.
2. Press one of the lit-up keys from ESC and F1-F12 to set 61 or 62 or 65 keys (JP layout) area to that actuation distance.
 - All analog keys (except ESC, F1-F12, 2-0, -_ and =+ keys but include the selected ones) light up with breathe (selected color).
 - Press the same sensitivity key to revert to current hardware profile setting.

Key	ESC	F1	F2	F3	F4	F5	F6
Actuation Distance (mm)	0.8	1.0	1.2	1.4	1.6	1.8	2.0 (Default)
Color	White	Orange	Amber	Yellow	Green	Cyan	Capri

Key	F7	F8	F9	F10	F11	F12
Actuation Distance (mm)	2.2	2.4	2.6	2.8	3.0	3.2
Color	Blue	Indigo	Purple	Violet	Magenta	Red

- Press FN +  to exit and try out your new settings.


Some popular settings are:

Gaming (Improved Response)	Multi-use (Balanced)	Typing (Improved Accuracy)
1.0mm	2.0mm (Default)	3.0mm

In software mode with iCUE you get access to even more powerful control to further fine-tune actuation settings in 0.1mm increments from the full 0.1mm to 4.0mm* range which can be saved per profile or assign actions to a secondary actuation for rapid fire combos or advanced walk-run movement.

HARDWARE RAPID TRIGGER SENSITIVITY SETTING (TABLE B)



1. Hold FN +  for 2 seconds until keyboard lighting turns off except for ESC, F1-F12, 2-0, -_ and =+ keys.
2. Press one of the lit-up keys from 2-0, -_ and =+ keys for Rapid Trigger Actuation Point settings to apply to 61 or 62 or 65 keys (JP layout) area.
 - All analog keys (except ESC, F1-F12, 2-0, -_ and =+ keys but include the selected ones) light up with blink (selected color).
 - Press the same sensitivity key to revert to current Hardware mode setting.

Key	2	3	4	5	6	7	8	9	0	-_	=+
Actuation Distance (mm)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0 (Default)	1.1	1.2
Color	White	Orange	Amber	Yellow	Green	Cyan	Capri	Blue	Purple	Magenta	Red

HARDWARE CALIBRATION

For special cases such that the actuation points are no longer in place, you may utilize this unique Hardware calibration tool built in with K70 PRO TKL.



1. Hold **FN + Game Mode button** for 2 seconds to enter calibration mode
 - All analog switch keys light up with Solid White, and the **Game Mode button** plays **SOLID green**
2. Unplug the cable
3. Hold any keys that you want to calibrate
 - a. **Game Mode button** and the hold key play **solid red** while calibrating
 - b. **Game Mode button** and the hold key play **solid blue** when calibration is finished
4. Release the key that you want to calibrate
 - a. **Game Mode button** and the hold key play **solid green** when calibration is completed
5. Hold Game Mode button for 2 seconds to exit calibration mode

MEDIA BUTTON (B) FUNCTION

By default, the button works as 'Play/Pause', and can be customized in iCUE.

	FUNCTION	REMARK
Default mode	Play/Pause	Factory default
Customized mode	Can be customized in iCUE	

ROTARY DIAL (C) FUNCTION

DIAL MODE*	FUNCTION	INDICATOR COLOR	HARDWARE/iCUE
Volume Control (Default)	When enabled via FN + F12 shortcut <ul style="list-style-type: none"> • Clockwise: Volume up 2% • Counterclockwise: Volume down 2% • Press: Mute/Unmute 	Solid White	Default on
Backlight Control	When enabled via FN + F12 shortcut <ul style="list-style-type: none"> • Clockwise: Brightness up 20% • Counterclockwise: Brightness down 20% • Press: Turn On (100%)/Off (0%) 	Solid Red	Default on
Scroll Control (Vertical)	When enabled via FN + F12 shortcut <ul style="list-style-type: none"> • Clockwise: Scroll down • Counterclockwise: Scroll up • Press: End of page 	Solid Green	Default on
Scroll Control (Horizontal)	When enabled via FN + F12 shortcut <ul style="list-style-type: none"> • Clockwise: Scroll right • Counterclockwise: Scroll left • Press: End of page 	Solid Yellow	Default off
Zoom Control	When enabled via FN + F12 shortcut <ul style="list-style-type: none"> • Clockwise: Zoom in • Counterclockwise: Zoom out • Press: Restore to default zoom action 	Solid Blue	Default off

STANDARD SHORTCUTS

All below functions assume FN key is being held and action is activated upon press unless otherwise noted.

Default function shortcut, with printed icons (can only be customized under iCUE).

KEY	FUNCTION	DESCRIPTION	INDICATION	REMARK
FN + F1	Scroll lock	Press & release to toggle Scroll Lock on and off	Scroll lock Indicator (D) turns on and off	
FN + F2	Profile	HW mode: Cycles through onboard profiles SW mode: Cycles through iCUE profiles	F2 key HW Profile #1: White HW Profile #2: Red HW Profile #3: Green HW Profile #4: Blue HW Profile #5: Amber	Profile color subject to iCUE settings
FN + F3	Decrease Brightness	Press to cycle through brightness levels (decreasing)	Key matrix brightness is adjusted	20% per trigger (5 scales total)
FN + F4	Increase Brightness	Press to cycle through brightness levels (increasing)	Key matrix brightness is adjusted	20% per trigger (5 scales total)
FN + F5	Stop Playback	Stops currently playing media	N/A	
FN + F6	Last Track	Skips back to last played track in playlist	N/A	
FN + F7	Play/Pause	Toggles playing and pausing media	N/A	
FN + F8	Next Track	Skips forward to next track in playlist	N/A	
FN + F12	Dial Mode*	Cycle dial modes	F12 key	

ONBOARD LIGHTING

SHORTCUT	LIGHTING EFFECT	REMARK
FN + `	Current HW profile lighting	Can be customized in iCUE
FN + 1	Water Color	
FN + 2	Spiral Rainbow	
FN + 3	Rain	
FN + 4	Rainbow Wave	
FN + 5	Type Lighting Key (random color)	
FN + 6	Type Lighting Ripple (random color)	
FN + 7	Color Shift (random color order)	
FN + 8	Color Pulse (random color order)	
FN + 9	Color Wave (random color order)	
FN + 0	Static Color	Press to cycle through in order: Red, Green, Blue, Yellow, Capri, Purple, Amber, White
FN + -	Reduce Effect Speed	
FN + =	Increase Effect Speed	
FN + [Rotate Effect Left	
FN +]	Rotate Effect Right	

SOFTWARE OVERVIEW

iCUE HOME AND DEVICE SCREEN



When you first open iCUE, you will see a new device tile for K70 PRO TKL. Clicking the device tile will present options to start programming for:

- Lighting Effects
- Key Assignments

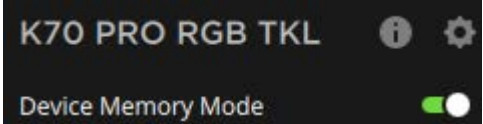
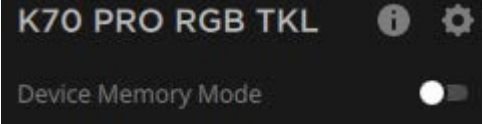
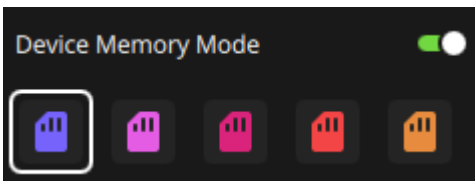
- Key Actuations
- Control Dial
- Performance

If you see an update notification in the iCUE window, please click to update firmware to the latest version.

DEVICE MEMORY MODE

Before you start programming, note that every iCUE system profile has two sets of settings - Software and Device Memory Mode.

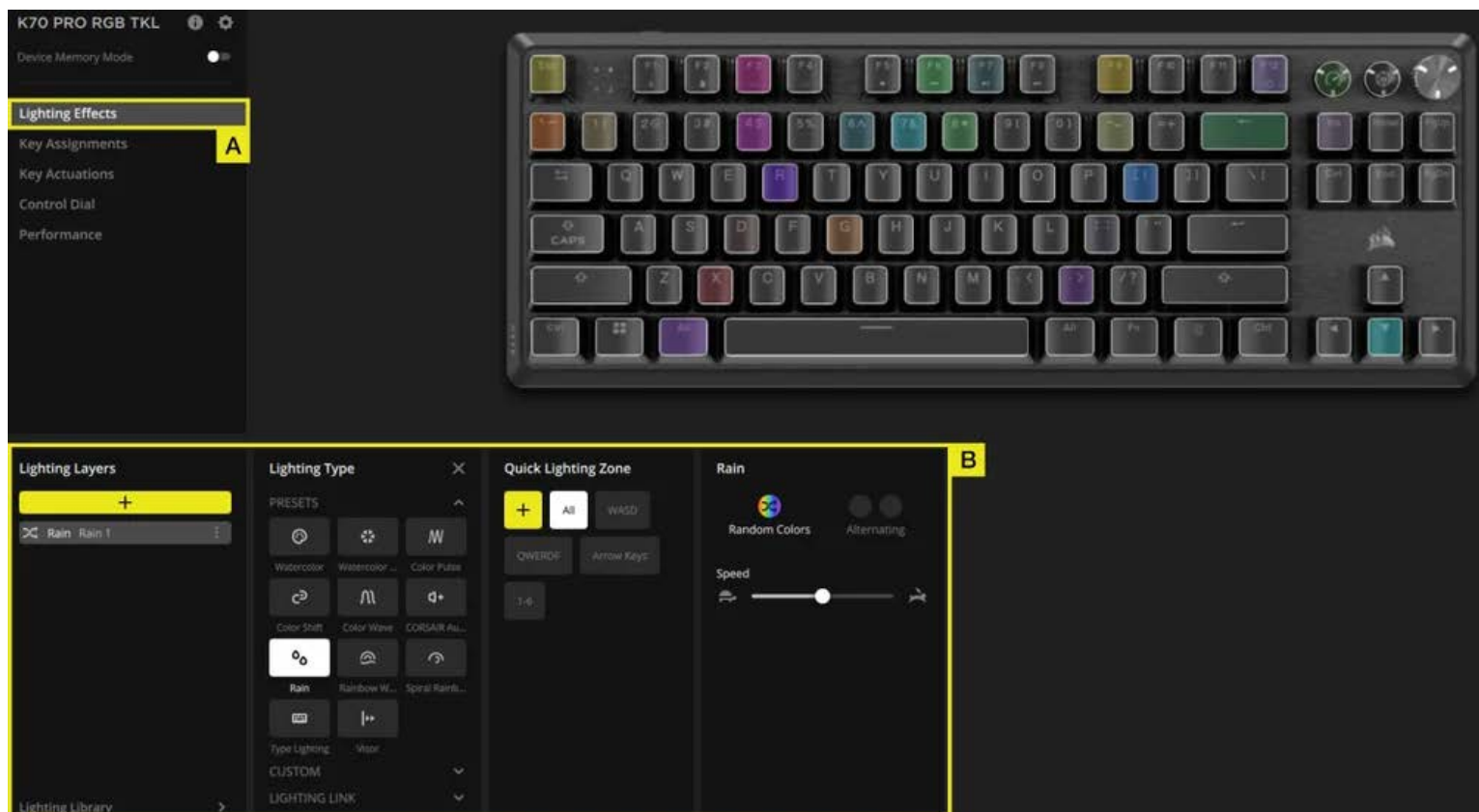
The Device Memory mode menu allows you to assign functions which can be saved to the KB's onboard memory and plays when in hardware mode.

FUNCTION	DEVICE MEMORY MODE 	SOFTWARE MODE 
Storage & Profiles	1MB for up 5 profiles	Unlimited
Features	<ul style="list-style-type: none"> • Lighting Effects • Key Assignments • Key Actuations • Control Dial • Performance 	<ul style="list-style-type: none"> • Lighting Effects • Key Assignments • Key Actuations • Control Dial • Performance
How to Save	Manual Save 	Automatically
Maximum Lighting Layers	20	Unlimited



LIGHTING EFFECTS

The Lighting Effects tab allows you to program lighting effects.

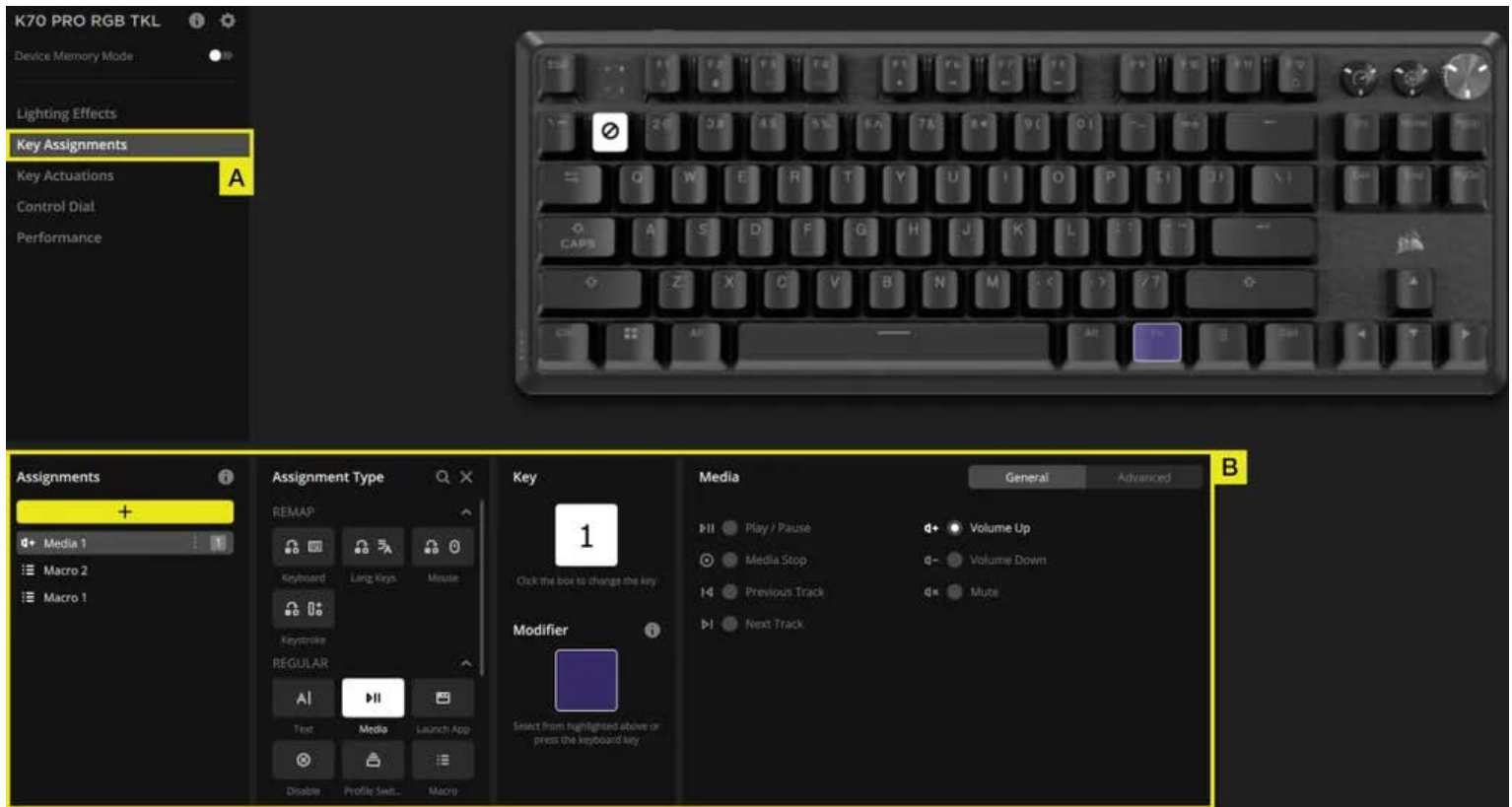


A. Choose Lighting Effects tab.

B. Under lighting layers click [+] to set lighting to your liking.

KEY ASSIGNMENTS

The Key Assignments tab allows you to easily remap keys or assign new functions to keys.



A. Choose Key Assignments tab.

B. Under Assignments click [+] to remap keys or assign new functions.

KEY ACTUATIONS

The Key Actuations tab is where you can adjust the actuation point of MGX magnetic switches. The default setting is 2.0mm and you can adjust from a range between 0.1mm to 4.0mm*. Here you will also find a setting to enable secondary actuation points which allow for advanced two-in-1 keypress combos and Rapid Trigger setting which allow for dynamically change actuation and reset points.



A. Choose Key Actuation tab.

B. Under Actuations Presets click [+] to adjust actuation value in 0.1mm steps (Default: 2mm), toggling reset point on (Default is off) to adjust reset value in 0.1mm steps (Default:1.9mm).

C. Select keys that you want to apply this setting on.

Sequence of B & C can be exchanged.

DUAL ACTUATION



A. Choose Key Actuation tab.

B. Under Actuations Presets click [+] to toggle Second Actuation Point on (Default is off) to adjust secondary actuation value in 0.1mm steps (Default: 3.5mm).

C. Toggle reset point on (Default is off) to adjust reset value in 0.1mm steps (Primary actuation default: 1.9mm; secondary actuation default: 3.4mm).

D. Select keys that you want to apply this setting on.

Sequence of B & D can be exchanged.

RAPID TRIGGER SETTING



A. Choose Key Actuation tab.

B. Under Actuations Presets click [+] to toggle Rapid Trigger on (Default is off) to adjust primary actuation value from 0.1mm to 4.0mm* in 0.1mm steps. Toggle Separate Press/Release sensitivity on (Default is off) to adjust downstroke & upstroke value (Default: 0.1mm).

C. Select keys that you want to apply this setting on.

Sequence of B & C can be exchanged.

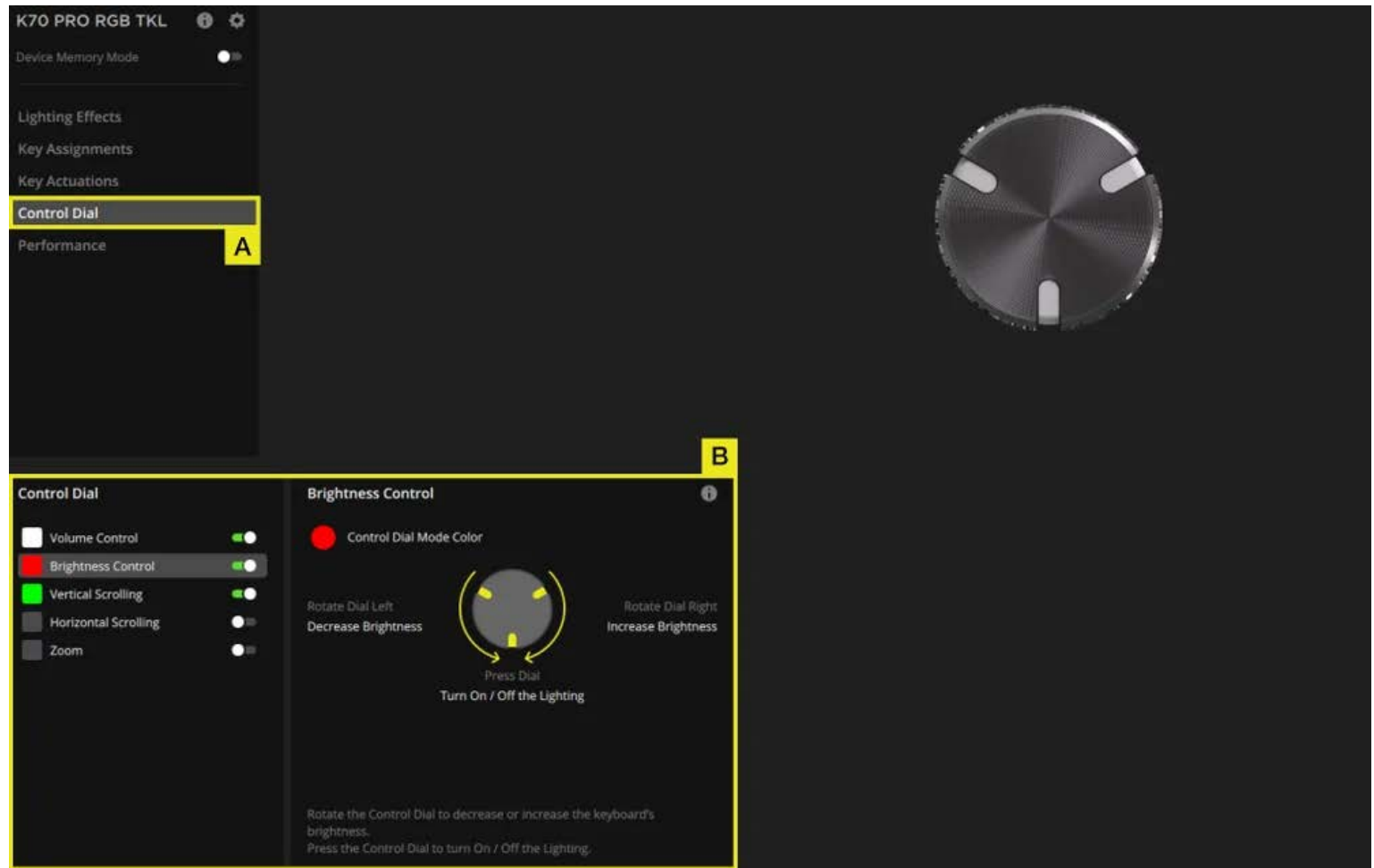
Here is an example of how you would configure actuation points to best handle various scenarios. We highly recommend users to tweak and experiment to find the best setup to suit their preferences.

USAGE	ACTUATION VALUE	BENEFIT
Competitive gaming	1.0mm	Enables faster and more responsive inputs.
General use	2.0mm (Default)	A good middle ground between speed and accuracy. This is the default setting.
Typing	3.0mm	Reduces the likelihood of accidental keypresses.

CONTROL DIAL

The Control Dial tab allows you to choose which mode you want.

Default setting is with Volume Control/Brightness Control/Vertical Scrolling on.



A. Choose Control Dial tab.

B. Pick the dial mode.

PERFORMANCE

The Performance tab allows you to enable/disable shortcuts and customize indicator colors.



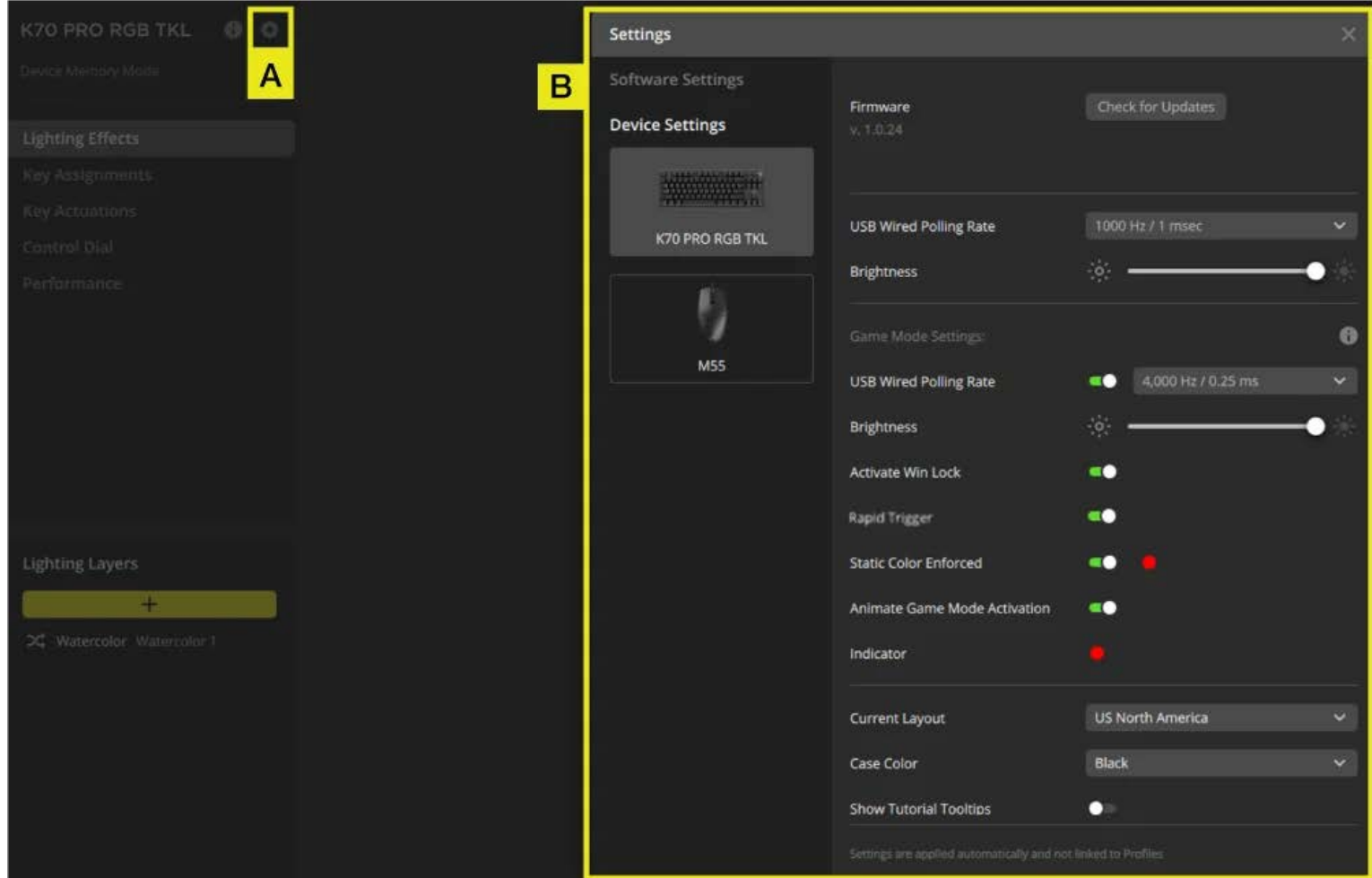
A. Choose Performance tab.

B. Enable/disable shortcuts or customize indicator colors to your liking.

DEVICE SETTINGS & GAME MODE SETTINGS

The Device Settings tab allows you to change advanced settings, adjust the polling rate, and update the firmware.

Besides, you can customize Game Mode on Settings in the Device Settings tab as well.

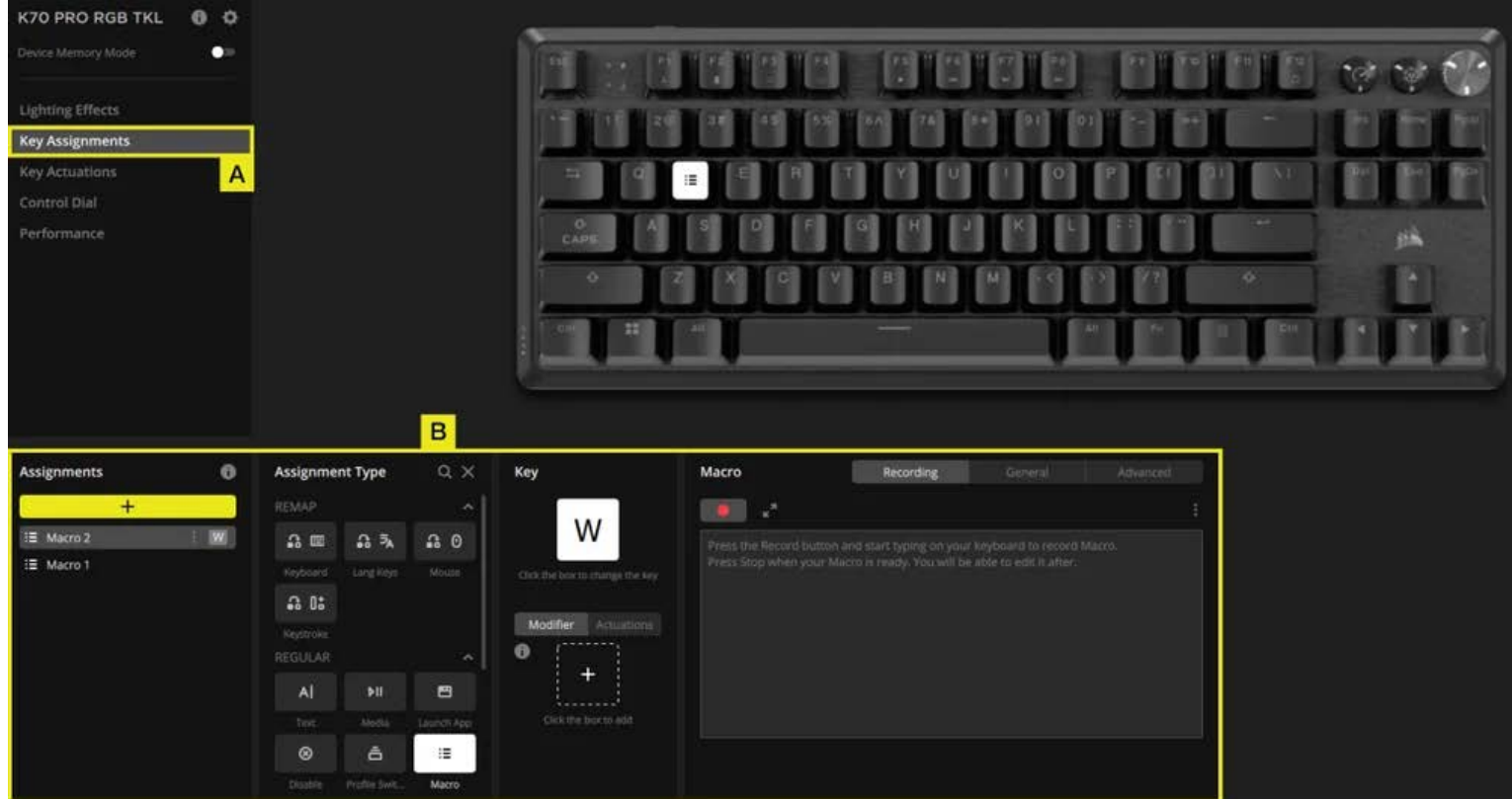


A. Click the setting icon.

B. Change the advanced settings and Game Mode on Settings* (Polling rate, brightness, static color, indicator color, animation on or off...etc).

MACRO RECORDING

Can be programmed in iCUE.



A. Choose Key Assignments tab.

B. Under Assignments click [+] to click assignment type Macro, starting Macro recording after remapping keys.

FACTORY RESET

Hold ESC key for two seconds while device is plugged in to erase onboard memory profiles and restore factory default settings.

WARRANTY YEAR



LEGAL/COPYRIGHT STATEMENT

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