

MISTEL

BAROCCO

KEYBOARD

MD770 / RGB
MD770 RGB BT



CHERRY 
MECHANICAL
SWITCH



Description:

Mistel introduces the new MD770 keyboard, the third split keyboard in the Mistel product line. The new 75% layout now includes the arrow keys and the entire function row keys. The slim design makes this keyboard very portable and is compatible with Windows and Mac OS.

*The MD770 is offered in three varieties: Base model (wired), Bluetooth and RGB.

Included accessories:

- MD770 keyboard x1
- USB Type C to Type C cable x1
- USB Type C to Type A cable x1
- Mistel Key puller x1
- User manual x1
- Extra keycaps (Gifts)
- Lithium Battery (for Bluetooth model only)

Specifications:

- Model name: BAROCCO
- Model number: MD770/ MD770 RGB/MD770 RGB BT
- Keyboard layout: ANSI & ISO
- Keycap: Mistel OEM keycaps (Or Cherry MX compatible)
- Macro function: YES
- Polling rate: 1000Hz
- Keyswitch: Cherry MX or RGB MX switch
- Matrix: NKRO
- Media key: YES
- On board memory: YES
- Operating System: Windows and Mac OS compatible
- Dimensions: Length 334.5mm x Width 140mm x Height 34.5mm

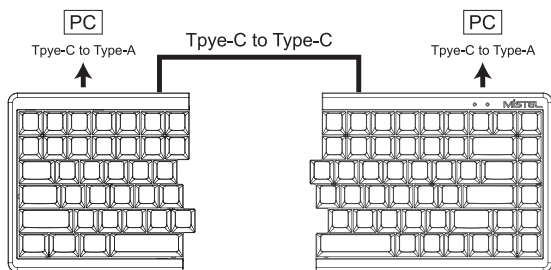
Keyboard set up:

1. Connect the Left and Right Side Keyboard Halves: Use the coiled Type C to Type C Cable.

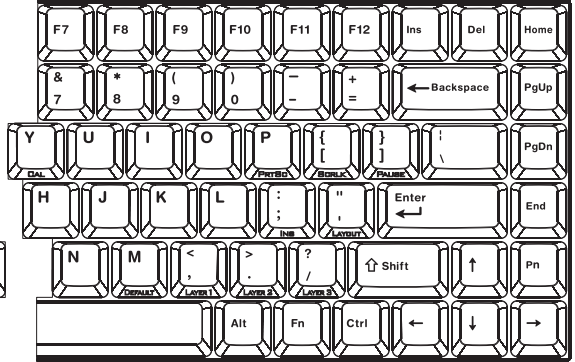
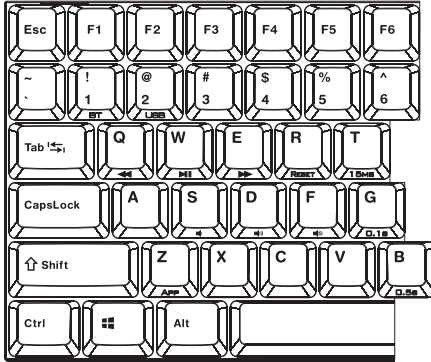
2. Connect the Right Side Keyboard to the Computer: Use the Type C to Type A cable.

*Note: The main controller is in the Right Side Keyboard – Always connect the Right Side Keyboard to the computer when using both Keyboard Halves. The Left Side Keyboard can be used alone if desired by connecting directly to computer.

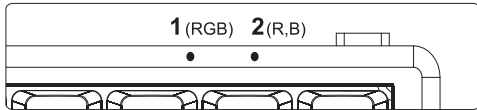
3. If using the MD770 RGB BT (Bluetooth): Ensure the battery is installed and charged. Turn on the Bluetooth button located on the bottom of the case.



Default Keyboard Layout:



LED Instruction:



LED1:

- Programming LED
- Current Layer LED
- LED will flash red color in low battery (BT version only)

LED2:

- Capslock Indicator LED
- Bluetooth Pairing LED (BT version only)
- The LED will flash blue quickly when charging (BT version only)
- The LED will light blue when charging is completed.(BT version only)

Macro Programming Instructions (change any key to any other key):

- Macro keys cannot be assigned in the default layer. Macro keys can be assigned in any of the FN layers.
- Macro keys cannot be assigned for some function keys, for example: **T/G/B/M/</>/R_Ctrl/”**.
- Check all dip switches are off before assigning any macros.

1. Choose Layer 1~3 (PN + </>/?).

Press PN + M / PN + < / PN + > / PN + ? to select the desired setting layer.

There are 4 layers in Total.

a. PN + M = Default Layer = LED 1 OFF

b. PN + < = Layer 1 = LED 1 Red

c. PN + > = Layer 2 = LED 1 Green

d. PN + ? = Layer 3 = LED 1 Blue

2. Press FN + Right Ctrl (LED 1 will be white to indicate keyboard is in macro mode).

3. Reassign the Key:

a. Select the key position for new macro.

b. Press the button to be changed (For example, select the L key first, and then press the P key.

This would change the position of the L key to the P key.

4. Press the PN key once to save the new setting.

5. Press FN + Right CTRL again to exit the macro mode. (At this time, the LED 1 will turn off.)

6. Repeat steps 1 through 5 to change any of the original key to other keys.


Remapping Function (change any command key to another command key):

For example, to remap the FN key to the Capslock key.

1. Choose layer 1, 2 or 3 (PN + <, PN + >, PN + ?).
2. Press Target Key + Left Shift (for example FN + Left Shift) for 3 seconds (LED 2 will blink Red).
3. Press the New Function Key (for example Capslock).
4. The Target Key is now remapped as the New Function Key (for example, now the FN command is activated when pressing the Capslock key).

*Note: You cannot move the FN key to Right CTRL, Right Shift, or Left Shift in Layer 1, 2 or 3.

Bluetooth Pairing:

- Please turn the BT switch to “On  ”.
- Pairing: Press **PN+1** to switch to BT Mode, then press **PN+F1(or F2/F3)** for about 3 seconds to pair device(LED2 will flash Blue).
 - a. **PN+F1 = Mistel 1**
 - b. **PN+F2 = Mistel 2**
 - c. **PN+F3 = Mistel 3**

The LED2 will turn off after pairing.

*Maximum pairing for 3 different devices.

*The Default Interface is USB mode.

- Switch Interface: Press PN+1 to switch BT mode, Press PN+2 to switch USB mode.

*Note: When switching to different devices, LED2 will flash Blue color 2 times.

The battery will be fully charged within 2-3 hours. When you operate the RGB LED under Bluetooth mode, Built-in lithium battery will be no power after 30 minutes.

Switching the Keyboard Layout:

- Press PN+” to switch to different keyboard layouts.
- Default layout: QWERTY layout.
- Press one time: Colemak layout.
- Press two times: Dvorak layout.

Reset Function:

- Reset Current Single Layer (to factory settings): Choose Layer 1, 2 or 3 then press FN + R for about 3 seconds (LED1 will flash White 2 times).
- Full Keyboard Reset (to factory settings): Press 2 Alt keys together for about 3 seconds. (LED1 will flash White 5 times). (**Warning: all programmed layers, macros and remaps will be lost**).

Dip Switch Specification:

- Dip Switch 1 ON: Mac layout ON (OFF for Windows layout).
- Dip Switch 2 ON: Capslock and Left CTRL keys exchange position.
- Dip Switch 3 ON: Left side Windows and Left Alt keys exchange position.
- Dip Switch 4 ON: Capslock and FN keys exchange position.

RGB lighting mode:

1. Default setting: wave mode.
2. PN + ESC = Color palette.
3. PN + F6 = Red color adjustment, PN+ F7 is Green color adjustment, PN+F8 is white color adjustment.
4. PN + F5 = LED mode

1st	Fulling lighting	Customized
2nd	Breathing	Customized
3rd	Cycling	RGB Random
4th	wave	RGB Random
5th	Rain drop	RGB Random
6th	Reactive	RGB Random
7th	Ripple	RGB Random
8th	Rotating	RGB Random
9th	Snake	RGB Random
10th	WASD and Arrow key	

PN+ ARROW key:

- PN + Up and Down arrow key: Adjust LED **Brightness**.
- PN + Right and Left arrow key: Adjust LED **Speed**.

Customized LED mode:

Process	Details	Note
PN + F9	Single led setting in Zone 1	Press PN + F9 again to save
PN + F10	Display the customized Zone 1 LED	
PN + 0	Turn off LED	
PN + Left Win	Window lock	

Default Layer Fn or Pn Keymap:

Keyboard and Layers	Media Keys	Other Keys
PN + `: Change Keyboard Layout (QWERTY, Colemak, Dvorak)	FN + Q: Previous Track FN + W: Play/Pause FN + E: Next Track	FN + P: Print Screen FN + [: Scroll Lock FN +]: Pause
PN + M: Default Layer	FN + S: Volume Up	FN + H: Home
PN + <: Layer 1	FN + D: Volume Down	FN + N: End
PN + >: Layer 2	FN + F: Volume Mute	FN + ;: Insert
PN + ?: Layer 3		FN + I: Up Arrow
PN + G: 0.1ms		FN + J: Left Arrow
PN + B: 0.5ms		FN + K: Down Arrow
PN + T: 15ms		FN + L: Right Arrow
PN + 1: Bluetooth mode		FN + Z: App
PN + 2: USB mode		FN + Y: Calculator
FN + R: Reset Layer		

Mac OS function:

Note: You cannot upgrade the keyboard firmware under Mac OS.

Note: Ensure dip switch is in Mac mode (Dip switch 1 ON).

F1	Decrease screen brightness
F2	Increase screen brightness
F3	MISSION CONTROL
F4	LAUNCH PAD
F5	Decrease keyboard brightness
F6	Increase keyboard brightness
F7	Previous track
F8	PLAY/PAUSE
F9	Next track
F10	Mute
F11	Decrease volume
F12	Increase volume

*Reset function in Mac OS: Press the "2 Command" key at the same time for about 5 seconds, LED1 will flash 5 times then it go back to original factory setting.

Troubleshooting:

If the keyboard is not working properly, please do the following steps.

1. Perform a single layer reset on the layer that is not working properly:
 - a. Reset Current Single Layer (to factory settings): Choose Layer 1, 2 or 3 then press PN + R (LED 1 will flash WHITE 2 times).
2. Perform a full keyboard reset (**Warning: all programmed layers, macros and remaps will be lost**)
Full Keyboard Reset (to factory settings):
 - a. Press 2 Alt keys together for 5 seconds. (LED 1 will flash WHITE 5 times)
3. Replug all keyboard cables.

If the left half of the keyboard does not work properly, please do the following steps.

1. Check the type C cable joining the two halves. Inspect the cable to check if it is faulty.
2. Visually check if the right and left Type C connectors on the keyboard are damaged.
3. Confirm that the right half is working properly alone (unplug the left side).
4. Download firmware for the keyboard and test again after replug.
(firmware instructions below).

If the key fails to work or respond properly, please check it by the following steps.

1. Check that all 4 dip switches are OFF.
2. Check whether a single key does not respond or multiple keys do not respond.
 - a. If a single key does not respond, there may be a shaft fault that needs to be repaired.
 - b. If there are multiple keys that do not respond at the same time, a short circuit may be present somewhere inside the keyboard.

How to download or update firmware on the MISTEL keyboard:

1. Download new firmware from MISTEL web-site.
2. MISTEL can also send new firmware to you by direct mail. Remember to convert the files from .ex to .exe format to make it an executable file.
3. Connect your keyboard and computer. Start the firmware update program and press OK to update to the new firmware.

*Note: Mac OSX does not support the firmware update software.

Keyboard Warranty Description:

The warranty for each keyboard is one year. If the keyboard fails after the warranty period, MISTEL can repair the keyboard but you will be asked to pay for shipping to and from MISTEL. Repair costs will only be charged for major parts failures.

If the keyboard fails within one year, we will provide free repair service. Please send the keyboard to us for maintenance and repair. We will send it back to you as soon as possible after repair or provide parts for you to replace on your own.

If the keyboard is damaged due to human factors or the keyboard is damaged due to external forces, we can provide repairs but will charge shipping and repair fees. If the keyboard has water or fluid inside the PCB, DO NOT wash it with water, but use only a dry cloth. Fluid in the keyboard can cause corrosion, requiring the entire PCB to be replaced.

**If you need any other service or help with your new keyboard, please email MISTEL at:
services@mistelkeyboard.com**

MODEL : MD770 RGB (BT OPTIONAL)
MODEL NO. : VTG2480BTM
TELEC NO. : 020-160048

NCC NO. : CCAB17LP0410T0
FCC ID NO. : 2AK6D-VTG2480
SRRR NO. : 2017DJ2463

MISTEL
DREAMING ON YOUR FINGERTIPS.

Warranty confirmation form Reseller

產品描述:

MD770 Barocco是Mistel所推出的第3把分離式鍵盤，整體的鍵盤配置為75%，在鍵位排列的最右邊，增加了部分的功能鍵與方向鍵，同時也新增了完整的F功能鍵；輕薄的外殼結合分離式設計讓使用者方便攜帶，鍵盤支援Windows與Mac OS作業系統。

*MD770擁有三種選擇：有線、藍牙(無線)、帶燈RGB。

產品配件內容:

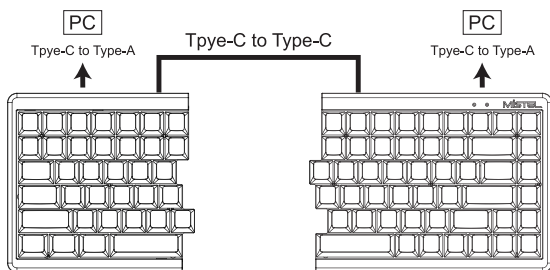
- MD770 keyboard x1
- USB Type C to Type C cable x1
- USB Type C to Type A cable x1
- Mistel Key puller x1
- User manual x1
- Extra keycaps (Gifts)
- Lithium Battery (for Bluetooth model only)

產品規格:

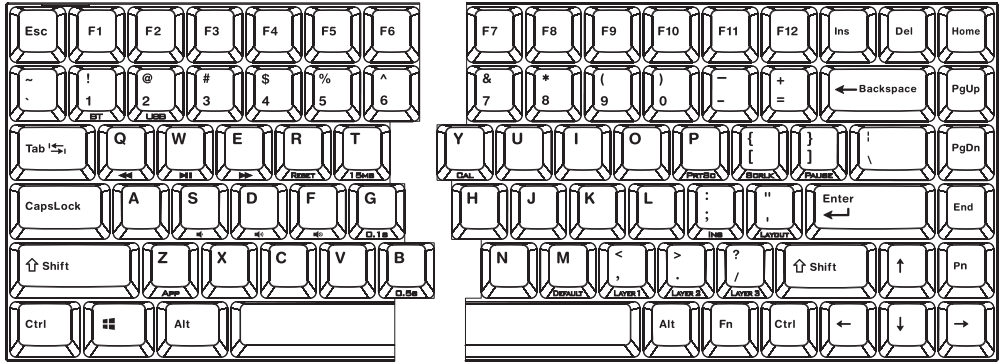
- Model name: BAROCCO
- Model number: MD770/ MD770 RGB/MD770 RGB BT
- Keyboard layout: ANSI & ISO
- Keycap: Mistel OEM keycaps (Or Cherry MX compatible)
- Macro function: YES
- Polling rate: 1000Hz
- Keyswitch: Cherry MX or RGB MX switch
- Matrix: NKRO
- Media key: YES
- On board memory: YES
- Operating System: Windows and Mac OS compatible
- Dimensions: Length 334.5mm x Width 140mm x Height 34.5mm

鍵盤使用說明/鍵盤組裝:

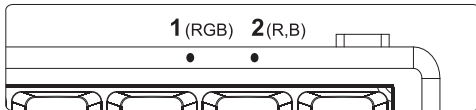
1. 使用 USB Type C to Type C 線材連接左右兩邊的鍵盤。
 2. 使用USB Type C to Type A將右邊的鍵盤與硬體連結。
- *備註：主要的控制IC位於右邊的鍵盤，如果要同時使用左右兩邊鍵盤，請務必將USB與右邊鍵盤連結，您也可以單獨使用左邊鍵盤，此時將USB與左邊鍵盤連結。
3. 如您使用MD770 RGB藍牙版本，請先確認電池電量是否足夠，並開啟位於鍵盤底部的藍牙開關。
- *備註：如果在藍牙模式下使用LED燈效，將加速電池耗電量，藍牙功能僅限有藍牙之產品使用。



鍵盤配置:



LED 指示燈說明:



LED1:

- 可編程操作指示燈
- 顯示目前分層位置
- 電池低電量時，閃爍紅燈(只限BT藍牙機種)

LED2:

- Capslock指示燈
- BT藍芽配對指示燈(只限BT藍牙機種)
- 電池充電時，快速閃爍藍燈(只限BT藍牙機種)
- 完成充電時，藍燈恆亮(只限BT藍牙機種)

可編程操作方式：

- 在默認層操作時，不能使用可編程功能；在FN層是可以做編程操作。
- 在編程操作時，有些鍵無法做編程設定，舉例 T/G/B/M/</ >/?/R_Ctrl/'。
- 在做編程操作前，需檢查是否將底部DIP開關完全關閉。

1. 選擇編程分層 1~3 (PN + </>/?)

按下 PN + M / PN + < / PN + > / PN + ? 來選擇所需要之設定層。

總共可編程 3層

- a. PN + M = 原始層 = LED 1 未亮燈
- b. PN + < = 第一層 = LED 1 亮紅燈
- c. PN + > = 第二層 = LED 1 亮綠燈
- d. PN + ? = 第三層 = LED 1 亮藍燈

2. 按下 FN + Right Ctrl (LED 1 亮起白燈進入可編程模式)。

3. 編程鍵位:

- a. 先選擇可編程之原始鍵位置，再按下欲更改之按鍵。
(舉例：先選擇L鍵，再按下P鍵，此時L鍵位置更換成P鍵。)

4. 按下Pn鍵一次，儲存新的編程設定 (LED 1 白燈再次亮起)。

5. 按下Pn + R_Ctrl 退出編程模式 (LED 1 燈熄滅)。

6. 重複步驟1-5，可編程其他鍵位。


功能鍵位移功能：

舉例：要將FN鍵移至Capslock位置

1. 選擇編程分層 1~3 (PN + <, PN + >, PN + ?)。
2. 長按FN + L_Shift 3秒 (LED 2 閃爍紅燈)。
3. 按下想替換之功能鍵 Capslock。
4. 此時FN鍵已移至Capslock，而原本的FN鍵位置變成Windows Key。

*備註: FN鍵不能被設定在R_Ctrl、R_Shift與L_Shift鍵位上。

藍芽配對說明:

• 請先開啟鍵盤底部藍芽開關 。

• 配對：按下PN+1切換至BT模式，再長按PN+F1(或F2/F3)約三秒後(LED2 閃爍藍燈)開始配對。

- a. PN+F1 = Mistel1
- b. PN+F2 = Mistel2
- c. PN+F3 = Mistel3

完成配對後，LED 2 燈會熄滅

*藍牙裝置配對上限3組

*鍵盤預設為有線模式

• 切換：按下 PN+F1 (or F2/F3) 切換不同藍牙裝置。

(切換裝置時，LED2 會閃爍2次)

• 藍牙與有線模式切換: 當連接USB時，按下PN+1切換至藍牙模式，按下PN+2切換至有線模式。

*注意：MD770 BT內建一個580mA鋰電池，第一次使用請先把電池充滿，大約需要2-3小時。

請不要自行拆解電池，這將會喪失保固權益，且會造成鍵盤故障並產生危險，另外請勿將熱源靠近電池。

在藍芽模式下操作RGB LED時，內置鋰鐵電池將於30分鐘耗盡。

鍵盤排列切換：

• 按下 PN+” 切換不同種類的鍵盤排列。

• 原始排列： QWERTY 排列。

• 切換一次： Colemak 排列。

• 切換二次： Dvorak 排列。

*可循環切換

鍵盤重置：

• 重置目前的編程分層(原廠設定值)：選擇編程分層 1~3，長按FN+R 約3秒，將單一分層回復至原廠設定值。(LED1 閃爍白燈兩次)。

• 重置鍵盤(原廠設定值)：同時長按左右Alt鍵約 3 秒，將鍵盤全部功能回復至原廠設定值。(LED1 閃爍白燈五次)。

指撥開關說明：

• Dip Switch 1： ON = Mac 排列與功能 OFF = Windows 排列。

• Dip Switch 2： Capslock 與 L_Ctrl 互換鍵位 (只能在QWERTY排列)。

• Dip Switch 3： L_Wins 與 L_Alt 互換鍵位 (只能在QWERTY排列)。

• Dip Switch 4： Capslock 與 FN 鍵位互換。

*備註：如同時打開Dip1, Dip2 與 Dip3，則無法動作。

RGB 燈光模式：

1. 原始設定: 波浪亮燈模式
2. PN + ESC = 開啟調色盤
3. PN + F6 = 紅色燈調整、PN + F7 綠色燈調整、PN + F8 藍色燈調整
4. PN + F5 = LED 模式切換

1st	鍵盤全亮	可自定義
2nd	呼吸模式	可自定義
3rd	循環模式	隨機
4th	波浪模式	隨機
5th	雨滴模式	隨機
6th	單點亮模式	隨機
7th	漣漪模式	隨機
8th	旋轉模式	隨機
9th	貪食蛇模式	隨機
10th	WASD 與方向鍵	

PN + 方向鍵功能：

- PN + 上下方向鍵：調整燈光亮度
- PN + 左右方向鍵：調整燈光速度

LED 自定義方式：

PN + F9	單顆鍵設定燈光在ZONE1	再次按壓 PN + F9 儲存
PN + F10	顯示ZONE 1的自訂義燈光	
PN + 0	關閉全部燈光	
PN + 左 Win	鎖住Windows鍵	

默認層 FN 與 PN 的功能說明:

鍵盤與編程功能	多媒體功能	其他功能
PN + “: 切換鍵盤排列 (QWERTY, Colemak, Dvorak)	FN + Q: 上一首 FN + W: 播放/暫停 FN + E: 下一首	FN + P: Print Screen FN + [: Scroll Lock FN +]: Pause
PN + M: 默認層	FN + S: 音量增加	FN + H: Home
PN + <: Layer 1	FN + D: 音量減少	FN + N: End
PN + >: Layer 2	FN + F: 靜音	FN + ;: Insert
PN + ?: Layer 3		FN + I: 上方向
PN + G: 0.1ms		FN + J: 左方向
PN + B: 0.5ms		FN + K: 下方向
PN + T: 15ms		FN + L: 右方向
PN+ 1: 切換藍牙模式		FN + Z: App
PN+ 2: 切換有線模式		FN + Y: 計算機
FN + R: 重置單層		

Mac OS 功能：

備註：打開指撥開關1，啟動Mac鍵盤功能。

F1	降低螢幕亮度
F2	增加螢幕亮度
F3	MISSION CONTROL
F4	LAUNCH PAD
F5	降低鍵盤亮度
F6	增加鍵盤亮度
F7	上一首
F8	播放/暫停
F9	下一首
F10	靜音
F11	降低音量
F12	增加音量

*在Mac OS下重置鍵盤設定: 同時長按左右Command鍵約5秒，燈光閃爍5次後，即恢復到原廠設定值。

韌體更新：

1. 進入Mistel官方網站，下載符合您產品型號的韌體，並依照更新步驟操作。
(如無法下載，可使用Email與我們聯繫 services@mistelkeyboard.com)
 2. 使用USB連接鍵盤，執行已下載之韌體檔案開始更新，完成後即為最新韌體版本。
- 備註：韌體檔案不支援在Mac OS作業系統下執行更新。

保固條款：

1. Mistel 全系列鍵盤提供消費者與授權分銷一年保固。
2. 保修期內僅適用於正常使用下之材料或製造過程所造成的問題，提供維修或更換零件的服務，保固期內的往來運費由廠商或消費者各支付一趟。若屬人為造成之產品故障損壞，在可維修情形下，將按損壞情況收取相關維修費用，若無法維修將退還予消費者。
3. 若產品本體已曾拆解，或序列號及保固貼紙遭移除、損毀或變更，將無法保修。
4. 若產品已過保固期，往來兩趟之運費將由消費者支付，維修亦照損壞情況收取相關維修費用。
5. 本產品於使用時，不得將飲料或是任何液體潑灑或倒入鍵盤中，如此將使鍵盤完全故障，亦無法維修，請消費者要特別注意。

MODEL : MD770 RGB (BT OPTIONAL)

MODEL NO. : VTG2480BTM

TELEC NO. : 020-160048

NCC NO. : CCAB17LP0410T0

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Warranty confirmation form Reseller