

TEAM MECHLOVIN'

PRODUCT USER GUIDE

- I. General Information
- II. Product Information
 - 1. Hannah 910 PCB & FR4 Plate

	GB Information	Changes/ Improvements	Issues/ Caveats
Hannah 910 Rev. 1	Reddit	First Edition	Blocker LEDs are too bright on default
Hannah 910 Rev. 1 Otani Edition	Reddit	Same design as previous round Purple solder mask	Blocker LEDs are too bright on default
Hannah 910 Rev. 2	Reddit Geekhack	Added switch footprint on top right position to improve compatibility	Incompatible with Exent (lack of R4 switch footprints) despite earlier communication. Rev.3 replacements sent. Design of the top right blocker LEDs is not the most robust.
Hannah 910 Rev. 3	Reddit Geekhack	Added R4 switch footprint to add compatibility for non-arrow blocker 65% boards (Exent & Dolinger 2017)	Due to the design of the Dolinger series, the position of the PCB's USB connector is sunken into the case, hence extra attention should be paid when picking cables. CNC machining on the PC plate is fairly inconsistent.

2. Infinity CE/ Infinity 88 PCB & FR4 Plate

	GB Information	Changes/ Improvements	Issues/ Caveats
Infinity CE	Reddit Geekhack	First Edition	Design of the F13 LEDs is not the most robust. Immersion gold coating bezel

			is a bit thin.
Infinity 88	Reddit Geekhack	Increased the thickness of the gold coating bezel to standard on the FR4 Plate.	CNC machining on the PC plate is fairly inconsistent.

3. Adelais PCB & Plate

	GB Information	Changes/ Improvements	Issues/ Caveats
Adelais Standard Rev. 2	Reddit Geekhack	First Edition	Stabilizer cutouts in one particular position have fitment issues with Durock screw-in stabs. Pic
Adelais En Ciel Rev. 1	Reddit Geekhack	First Edition	Stabilizer cutouts in one particular position have fitment issues with Durock screw-in stabs. Pic RGB backlight programming is not “natively” supported by VIA.
Adelais Standard Rev. 3	Reddit Geekhack	Fixed stabilizer fitment issues with Durock screw-in stabs Added USB-C option Added support for rotary encoder (all 3 keys at far left cluster)	
Adelais En Ciel Rev. 2	Reddit Geekhack	Fixed stabilizer fitment issues with Durock screw-in stabs Added USB-C option Added support for rotary encoder (top left key) Improved overall RGB implementation by using new LED controller	RGB backlight programming has not been “natively” supported by VIA (See note & instruction below) RGB backlight brightness is slightly lower than Rev. 1 due to the change of LED controller (good tradeoff)

Adelais Standard Rev. 4		Underglow LEDs are pushed further to the centre to avoid possible fitting issues with some stacked acrylic cases, and also to achieve effects and brightness that are more pleasant to the eye. Improved overall PCB layout.	
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- **Notes & instructions for Adelais En Ciel RGB backlight programming**

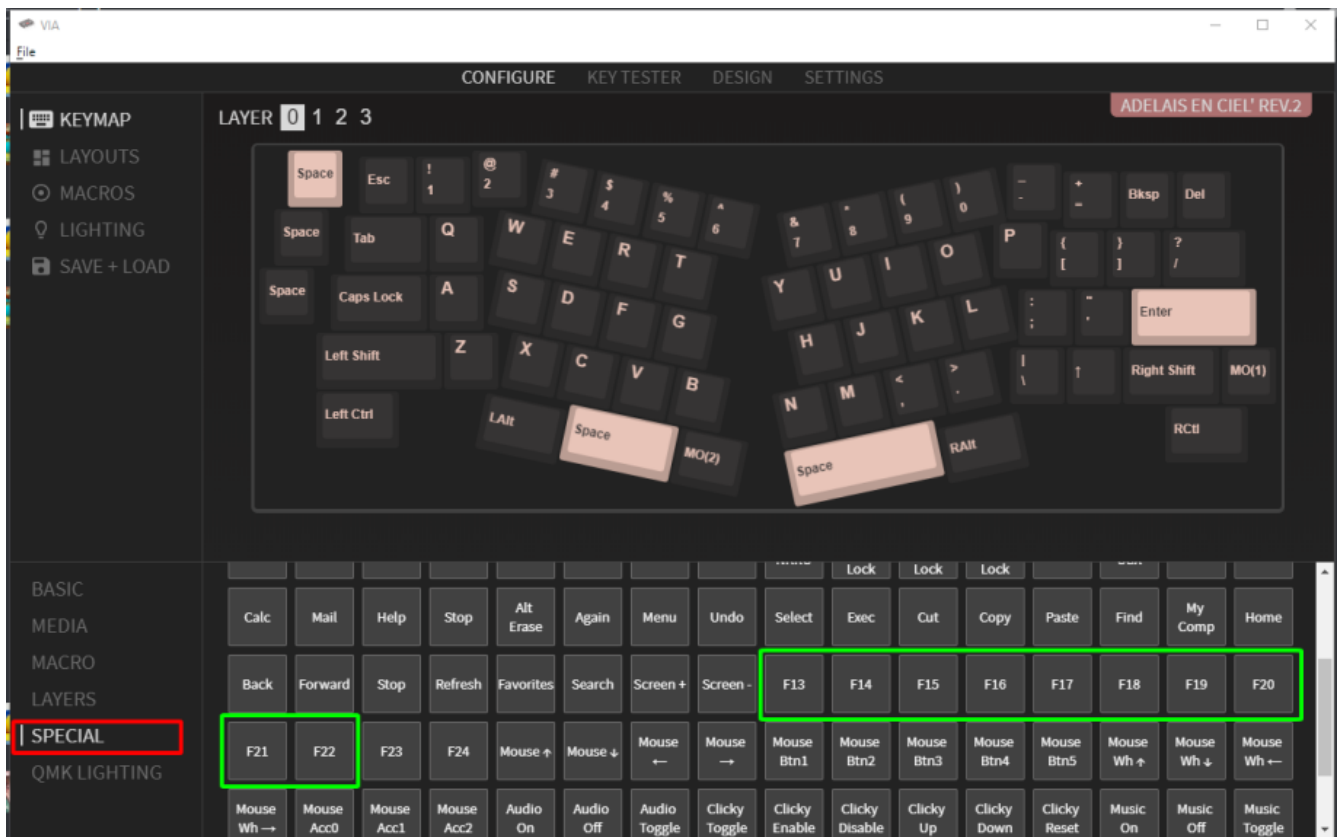
Adelais en Ciel Rev. 1 uses the ws2812 Led driver, which is supported by QMK RGB Matrix, but not currently by VIA. That is why as you click on “LIGHTING” on VIA’s main menu when the Adelais en Ciel is connected, it will lead to a blank screen and the program will have to be restarted (this restarting issue has been fixed).

We were well aware of that shortcoming, and went on using the new is31fl3731 Led driver, which is supported by both QMK RGB Matrix and VIA, on the **Adelais en Ciel Rev. 2 PCB**. This is overall a much improved implementation of the function. Nevertheless, at the time of the Rev. 2 release, the programming of the RGB backlight has not been “natively” supported by VIA yet, in the sense that when you click on VIA’s LIGHTING tab, only the configuration options for the RGB underglow are shown, and there are no direct controls for RGB backlight. Instead, it will need to be done via keymapping as follows:

FOR ADELAIS EN CIEL REV. 1

On VIA, go to the “QMK LIGHTING” tab and map the LED control function keys to your liking.

FOR ADELAIS EN CIEL REV. 2



- On VIA, Go to the “SPECIAL” tab
- Map the F13 to F22 keys to your liking

F13: Toggle RGB backlight on/off

F14: Change RGB backlight effect

F15: Increase LED effect speed

F16: Decrease LED effect speed

F17: Increase HUE (only works with mono LED effects)

F18: Decrease HUE (only works with mono LED effects)

F19: Increase LED colour saturation

F20: Decrease LED colour saturation

F21: Increase brightness

F22: Decrease brightness

4. Infinity 87

	GB Information	Changes/ Improvements	Issues/ Caveats
Infinity 87 Rev. 1	Reddit Geekhack	First Edition	
Infinity 87 Rev. 2		Added compatibility for Duck Keyboards.	

Rev. 1.1

Rev. Date: April 2021

5. Kanu

	GB Information	Changes/ Improvements	Issues/ Caveats
Kanu Rev. 1	Reddit Geekhack	First Edition	FR4 Plate has fitment issues with Gateron Inks.
Kanu Rev. 2			

6. Mechlovin' 9 (Kyu compatible)

	GB Information	Changes/ Improvements	Issues/ Caveats
Mechlovin' 9 Rev. 1	Reddit Geekhack	First Edition	None so far
Mechlovin' 9 Rev. 2	Reddit Geekhack	The first revision utilises the expensive STM32 MCU, which is a bit of an overkill for a rather simple PCB. We are switching to a more basic MCU, which helps lower the price, while not affecting any aspects of usability and user experience.	

7. Rogue (UTD Compatible)

	GB Information	Changes/ Improvements	Issues/ Caveats
Rogue (UTD Compatible)	Reddit Geekhack	First Edition	None so far

8. Rouge (OTD Compatible)