

# Mooltipass Mini BLE User Manual

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## I. Mooltipass Mini BLE Device

### A) Introduction

The Mooltipass Team would like to thank you for purchasing the Mooltipass Mini BLE, the third device in the Mooltipass family. We've worked hard to make it the most usable and secure authenticator in the market and we hope you'll feel this way too.

This manual presents the different features offered by the Mooltipass Mini BLE, it will be updated as new ones are added. The latest version is always available at

<https://www.themooltipass.com/setup>.

### B) Important Concepts

When using the Mooltipass, it is useful to keep the following points in mind in order to use all features that the Mooltipass Mini BLE offers:

- 1) Each user is identified to the Mooltipass by a personal card or one of its clones
- 2) Multiple users can share one Mooltipass device
- 3) User password databases are stored on the device and can be exported to other devices
- 4) As a consequence, users can use multiple devices

### C) Getting Started



The Mooltipass Mini BLE is battery powered. To switch it on, click on the wheel or connect a USB-C cable to it.

When first powered on, you'll be invited to select the device default language. Simply scroll to the desired language and click to approve.



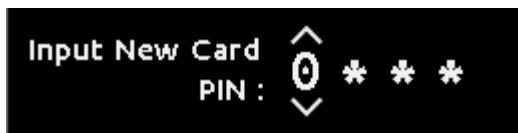
A device tutorial will be shown next. Scroll or click to see each screen.



To get started, you need to set up a new Mooltipass user. Simply insert one of the cards that came with the device into the Mooltipass Mini BLE.



The Mooltipass Mini BLE will prompt you to create a new user. Click the wheel to accept the request. Scrolling to the cross icon and clicking, or holding the wheel button (a “long click”) will deny the request.



Next, setup your Personal Identification Number (PIN). Each of the four PIN characters can be one of the digits 0-9 or one of the letters A-F. Scroll the wheel to select the desired character and click to move to the next position. A long click will go back one position to let you change the previous character.



Re-enter the same PIN you selected in the previous step to confirm it.



If you’re a novice user and prefer your device to be as automatic as possible, by, for example, automatically approving credential requests for you, approve the “Simple Mode” prompt. You can still change your choice later.



Congratulations, your Mooltipass Mini BLE and the smart card are set up and ready for use! The Mooltipass Mini BLE now displays the main menu. In case you were to lose your smartcard, we recommend you to clone it (see [Cloning your Card](#)).

## D) Bluetooth Operation



To access the Mooltipass Mini BLE Bluetooth features navigate and then select the 'Bluetooth' item in the main menu.



You'll be prompted to enable the Bluetooth interface if it isn't active.



When Bluetooth is active, the Bluetooth icon will appear in the device tray in the lower right corner of the screen.

### a) Connecting to a New Device



To connect to a new device such as a phone or a computer, select the menu item shown here and use that device to pair with the Mooltipass Mini BLE.



The Mooltipass Mini BLE will display this screen while waiting for your device to pair with it.



During the pairing process, the Mooltipass Mini BLE will then prompt you to enter the pairing PIN. Once you've entered the PIN, the Mooltipass Mini BLE will connect to your device.



When wirelessly connected to your device, the Bluetooth logo will display arrows around it.

## b) Deleting Pairings



The 'Delete Pairings' menu item erases the pairing information of all devices the Mooltipass Mini BLE has been paired with. When performing this operation, make sure to also erase the matching Mooltipass pairing on your host devices.

## c) Disabling Bluetooth



The 'Disable Bluetooth' menu item allows you to disable the Bluetooth interface.

## d) Switching Between Bluetooth Devices



If your Mooltipass Mini BLE is paired with several devices, you can use the following menu item to temporarily disconnect the Mini BLE to the currently connected device, allowing another Bluetooth device to connect to it.

## E) Credentials Storage and Recall

### a) Credentials Storage



While the Mooltipass works with any device right out of the box, our app and extension make things even easier when using your favorite web browser.

For extension & app installation files, visit <http://www.themooltipass.com/setup>

After installing, simply visit any website login page and enter your login and password. The Mooltipass Mini BLE will then ask if you want to store the website, login and password.

Click the wheel to approve storing your credentials.

Credentials can also be added directly using the Moolticute App (see the Credentials section of Moolticute User's Guide)

### b) Credentials Recall

Your Mooltipass device will behave differently if configured in simple mode (see [Enabling Advanced Mode / Enabling Simple Mode](#)) or with login prompts enabled in advanced mode (see [Login Notification / Prompt](#)).

#### *Notification Mode*



In Simple Mode or with login prompts disabled, the Mooltipass Mini BLE will inform you when automatically logging you into websites.

#### *Prompt Mode*



In Advanced Mode with login prompts enabled, the Mooltipass Mini BLE will prompt you to approve credentials sending.

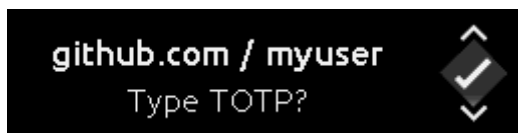


c) FIDO2 / WebAuthn Credentials



The Mooltipass Mini BLE natively supports FIDO2 & WebAuthn based credentials. The Mooltipass Mini BLE will interact with them like any other kind of credential. You may test and read more about WebAuthn technology [here](#).

d) Time-Based One Time Passwords (TOTP)



Time-Based One Time Passwords can be setup using the Moolticute companion app. Once added to your Mooltipass Mini BLE, follow the same steps as the one described in [Manual Login](#) to type TOTP tokens.



TOTP tokens can also be viewed by denying the typing prompts, as shown in

[Manual Login](#) – Favorites Menu.

## E) Manual Login



If you're not using a web browser and need to log in, you can use Manual Login.

In the main menu, scroll to 'Login' and click on the wheel.



Use the wheel interface to scroll to the service you want to log into and click the wheel to select it.

To scroll more quickly through the list, push and hold the wheel while scrolling. This scrolls by the first letter of the names of the services.



If more than one credential set is stored for a given website, you will be prompted to select which login to use.



If the Mooltipass Mini BLE is connected to different devices, one over Bluetooth and the other over USB, you'll be prompted to select the output interface.



The Mooltipass Mini BLE then prompts you for permission to send your username to the device. If the typed username doesn't appear correctly, make sure your keyboard layout is selected appropriately in the 'Device Settings' tab of the Moolticute app (see [Keyboard Output](#)).



Next the Mooltipass prompts for permission to enter your password.

## F) Manual Login – Favorites Menu

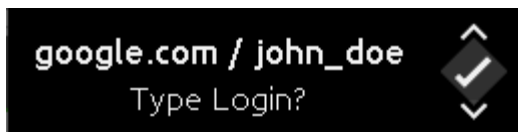


The Mini provides a 'Favorites' menu for quick access to your most commonly used credentials. To select which credentials are 'favorites' use the 'Credentials' tab of the Moolticute app (see [Credential Management](#)).

In the main menu, select the 'favorites' item to show your favorite credentials.



Select the desired credential set using the wheel interface.



As before, approve or deny the username entry request.



And then approve or deny the password entry requests.



If you deny both username and password prompts, the Mooltipass Mini BLE will ask if you'd like to display your credential on its screen.

## G) Operations Menu



The Mini has an 'Operations' menu that provides access to some important features. From the main menu, select the '*Operations*' item.



You will be presented with the available options, which are outlined below.

### a) Enabling Advanced Mode / Enabling Simple Mode



You can switch between the advanced and simple mode using this dedicated menu item.

### b) Changing the Card PIN



In the Operations menu, select the 'Change pin' item.



Enter your old PIN.



Enter your new PIN.



Confirm your new PIN.

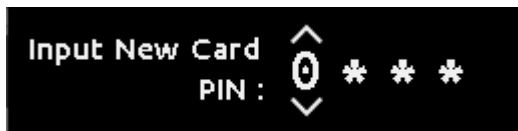
c) Cloning your Card



Your credentials are stored inside the device, **not in your card**. We recommend you make a clone of your card and keep it in a safe place so that you can use it to access your credentials if your regular card is lost or damaged. In the operations menu, select the 'Clone Card' item.



Enter your PIN.



Enter the desired PIN for the new card. It can be the same as your main card, but this is not required.



Confirm the PIN for the new card.



Remove your old card.



Insert a new (empty) smart card. The Mini BLE then initializes it with the contents (encryption key) of your old card, and the new PIN you just selected.

#### d) Deleting Your User Data from the Mooltipass



In the Operations menu, select the 'Erase Profile' item.



The Mooltipass prompts you for confirmation that you really do want to delete all of your user data.

*Please note that this operation deletes all the credentials stored for this user on this Mooltipass Mini BLE. It doesn't delete credentials stored for this user on other Minis nor credentials stored on this Mini BLE for other users/cards.*



Enter your PIN.



If you are really sure you want to delete your user data from the Mooltipass Mini BLE, confirm again.



If you are using your current smart card on other Mooltipass devices, it is important that you **deny** the request to erase the card – if you do erase the card, it can no longer be used to access credentials on any device. Otherwise, accept it. This resets the card to its original unused state.



If you erase your original card and have clones of it that you no longer need, you should erase them, too. Approve this request and repeat the previous process to erase the cloned cards as well.



#### f) Language Change



This menu item allows you to change your device's main language.

#### l) Active Category Selection (Advanced Mode Enabled)



When the device's advanced mode is enabled, users can select an active category. The selected category acts as a folder, storing new credentials inside it, and limiting credential viewing and recall to the selected category.



4 categories are available and can be renamed using Moolticute.

#### J) Other Mooltipass Mini BLE Settings

While the settings accessible in the device menu (see [Settings Menu \(Advanced Mode Enabled\)](#)) are applied to your user profile, your device's behavior can further be customized by changing more settings in the Moolticute companion app (see [Device Settings](#)).

Setting	Setting Description
Random starting PIN	By default, the starting PIN is set to '0000' but can be changed to a random value by enabling this setting.
User interaction timeout	Number of seconds after which a prompt disappears
Prompt animations	Disables all device animations to allow faster user interactions
Device default language	Device default language
Key pressed after login typing	Which key should be pressed after a login is typed during manual credential recall (default value: tab)
Key pressed after pass. typing	Which key should be pressed after a password is typed during manual credential recall (default value: return)
Delay between key presses	Delay between each simulated key press (used for slow computers)
Boot animation	Disables the animation at device start
Lock on disconnect	Device lock on USB or Bluetooth disconnection
Knock detection sensitivity	Threshold for the knock detection algorithm
PIN on back pressed	Enables PIN digit display when going back during PIN entering
Lock/unlock feature	Enables single login and/or password typing upon card unlock
Device tutorial	Enables device tutorial at next device boot



<b>Show full PIN on entry</b>	Enable 4 digits PIN display during PIN entry
<b>BLE disable on card removal</b>	Disables Bluetooth when user's card is removed
<b>BLE disable on lock</b>	Disables Bluetooth when the device is locked
<b>Inactivity timer</b>	Sets the number of minutes after which the device should automatically lock itself if no activity is detected
<b>Power off on USB disconnect</b>	Switches off the device when the USB cable is disconnected
<b>Hash display</b>	Shows cryptographic hashes before and after card unlock. By checking that these hashes do not change with time, you can make sure your device hasn't been tampered with
<b>Information time delay</b>	How many seconds should notifications be displayed
<b>Bluetooth shortcuts</b>	Enables Bluetooth shortcuts in the main menu: <ul style="list-style-type: none"> <li>- Press down / press up / press down: Bluetooth toggle</li> <li>- Press up / press down / press up: disconnect from device</li> </ul>
<b>Device screen saver</b>	Screen saver when connected through USB and going to sleep

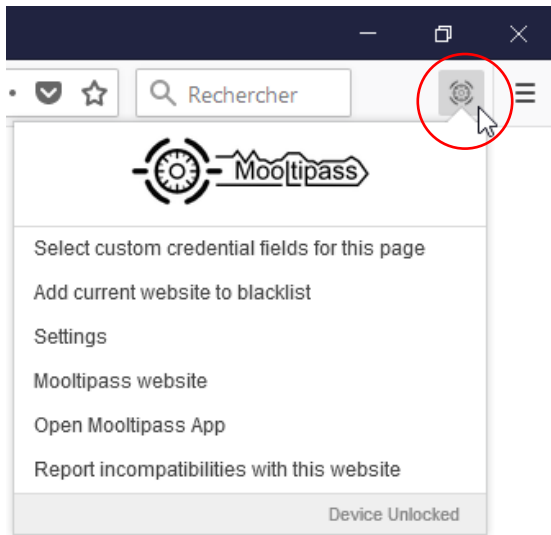
## K) Best Battery Usage Practices

The Mooltipass Mini BLE uses a Nickel Metal Hydride Battery (NiMH). For maximum battery longevity, it is recommended to use your device until its battery is depleted. Battery life on a single charge will highly depend on your device usage, with a typical value between 2 days and 7 days.

## II. Mooltipass Browser Extension

**n.b.** : for installation instructions please visit <http://www.themooltipass.com/setup> .

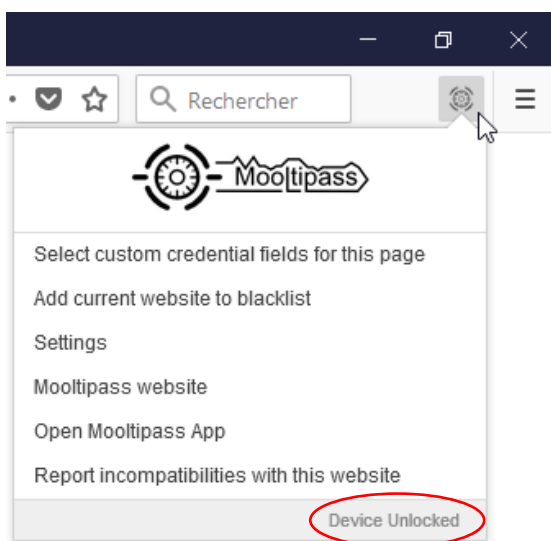
### A) Extension Menu



In Chrome, Firefox or Opera, the Mooltipass icon is located next to your address bar.

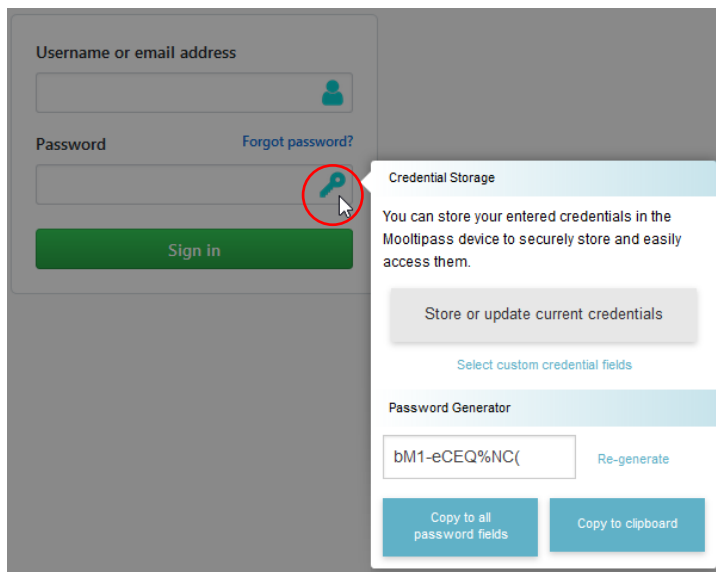
Clicking on it displays a menu.

### B) Device Status



The device status is displayed on the extension menu's bottom right corner.

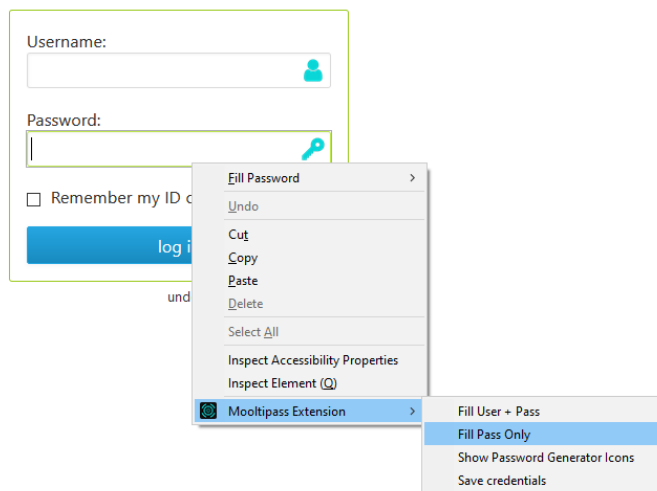
### C) Password Generator and Credential Storage



Whenever the extension sees a password field, it offers you an opportunity to bring up the Mooltipass password generator. Simply click on the key icon.

In the rare cases where the extension doesn't pick up a credential submit event, you may also use this menu to manually trigger a credential storage procedure.

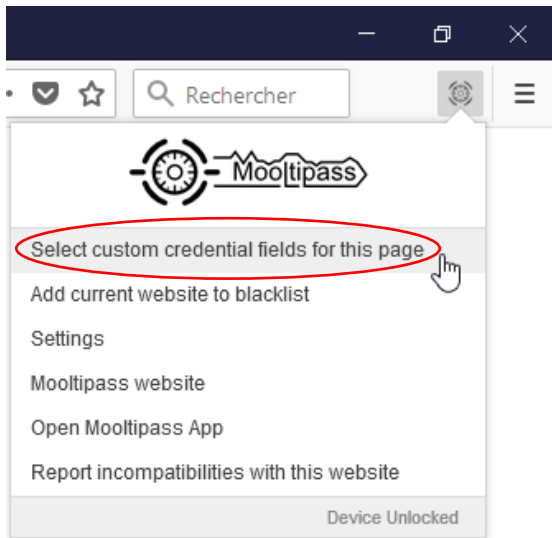
### D) Context Menu Based Credential Recall



Whenever the extension detects credential fields, it will automatically communicate with Mooltipass so that your Mini BLE can send the credentials you have stored on it.

In the rare cases where the extension doesn't pick up credential fields, you may right click on a field to bring up a context menu to manually trigger credentials recall.

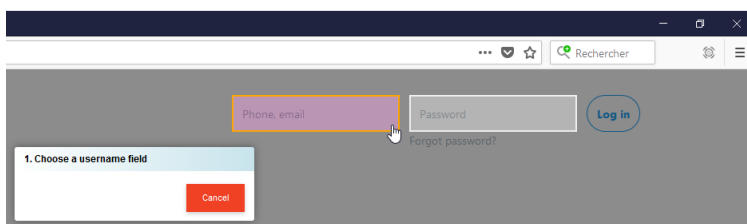
## E) Selecting Custom Credential Fields



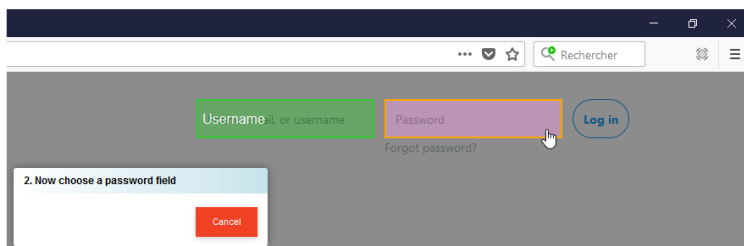
The Mooltipass extension searches for credential fields in the web pages you visit. When it finds them, it displays a key icon in the password field, as shown above.

In the rare case the credential fields aren't picked up, you may tell the app about them by clicking this item in the extension menu.

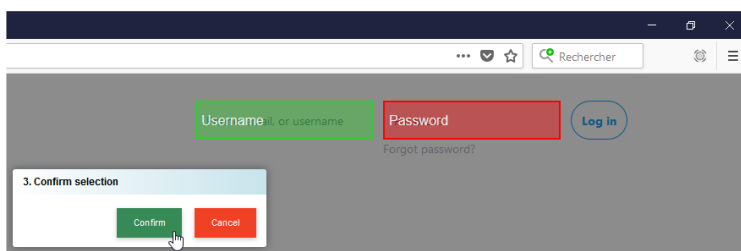
Follow the on-screen instructions to select the username field



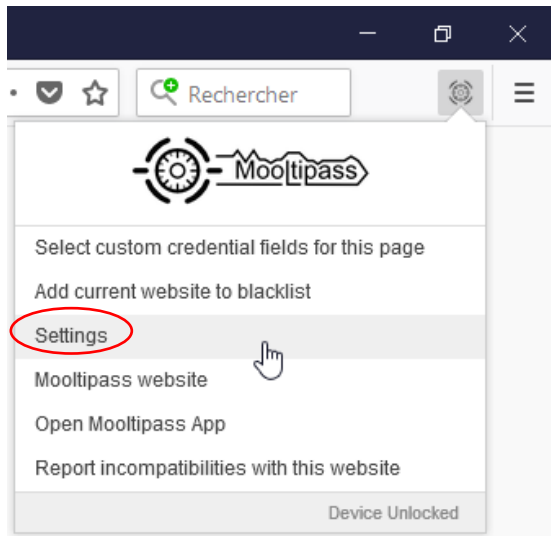
then the password field,



and confirm.



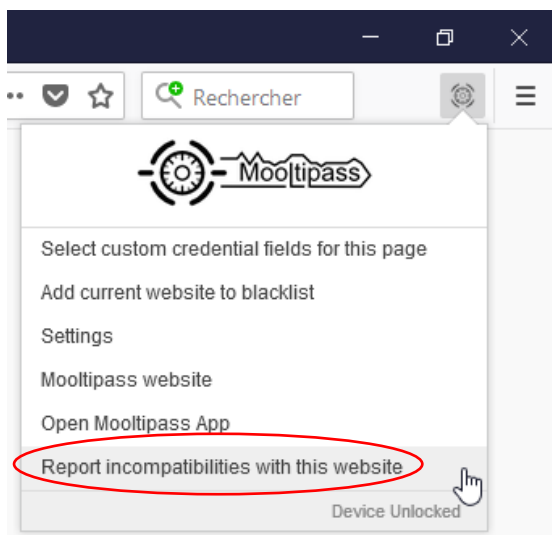
## F) Extension Settings



You may bring up the Mooltipass extension settings page by clicking on this item in the extension menu.

Among other things, the settings page allows you to manage the list of websites you wish the extension to ignore and the ones for which you have stored custom credential fields.

## G) Reporting Incompatibilities



The Mooltipass team actively works to ensure the extension works with all the websites you visit.

If you find a website that does not work, we'd like to know about it.

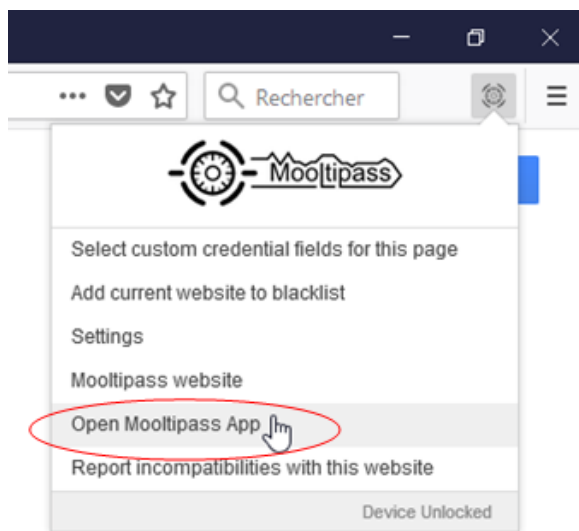
To report an incompatibility, click on this link in the extension menu.

### III. Moolticute Application

#### A) General Information

Moolticute is the official app for the Mooltipass. It works as an intermediary between your device and the browser extension. This allows a simpler, more intuitive use of your Mooltipass and gives you access to more functionality when you need it. For Moolticute and Mooltipass extension installation instructions, please visit <http://www.themooltipass.com/setup>.

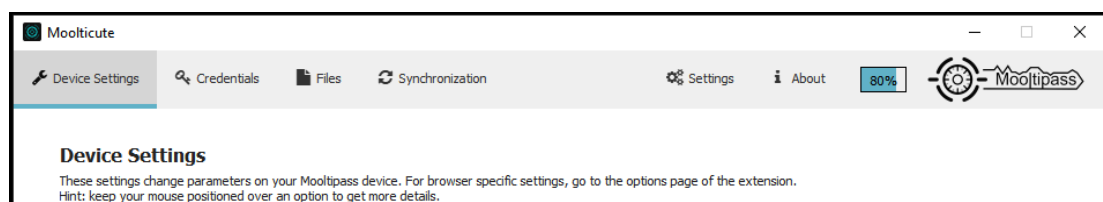
#### B) Launching the Moolticute app



You can launch the Moolticute app from the Mooltipass Extension menu by clicking on the corresponding item.

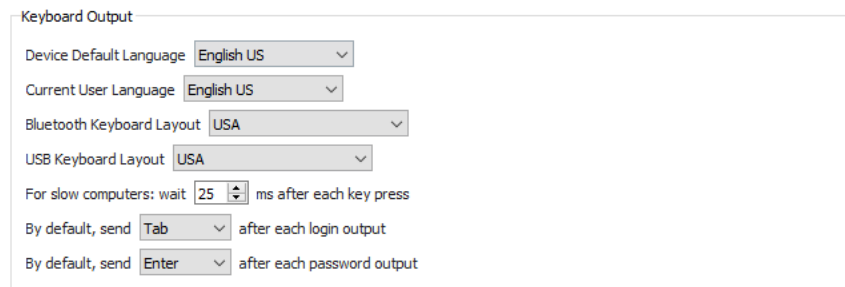
Moolticute can also be shown by clicking on its icon, located in your operating system's task bar.

#### C) Device Settings Tab



You can use the 'Device Settings' tab to change parameters on your Mooltipass device. Hovering the mouse pointer over an option will give a short description of what the corresponding feature does.

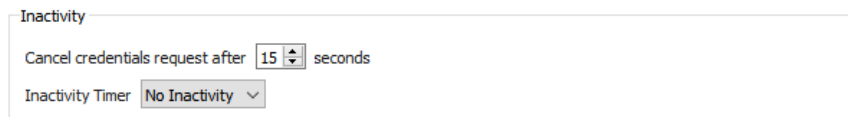
## a) Keyboard Output



The screenshot shows the 'Keyboard Output' settings menu. It includes dropdown menus for 'Device Default Language' (English US), 'Current User Language' (English US), 'Bluetooth Keyboard Layout' (USA), and 'USB Keyboard Layout' (USA). There is a numeric input field for 'For slow computers: wait' set to 25 ms. At the bottom, there are two dropdown menus: 'By default, send' with 'Tab' selected for login output, and 'By default, send' with 'Enter' selected for password output.

- For the Mooltipass to operate properly, it is important that you use the Device Settings tab to select the **keyboard layout** you are using.
- If characters are missing when using manual credential recall, the Mooltipass may be typing too quickly for your computer. To solve the problem, use the dedicated feature of this subsection to increase **the time interval between simulated key presses**.
- The last two features of this subsection also apply to manual credential recalls. They enable the Mooltipass to automatically send a **Tab or Enter simulated key press** after the login and password. Not having to do this yourself can help speed up the login process.

## b) Inactivity

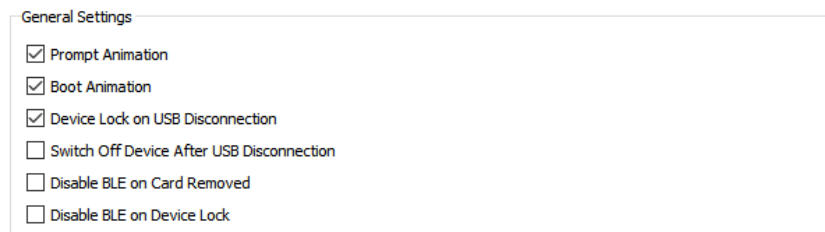


The screenshot shows the 'Inactivity' settings menu. It features a numeric input field for 'Cancel credentials request after' set to 15 seconds, and a dropdown menu for 'Inactivity Timer' currently set to 'No Inactivity'.

This subsection allows you to

- Alter the number of seconds after which the **credential requests** disappear
- Automatically **lock your Mooltipass** when you've been inactive for a specified amount of time

## c) General Settings



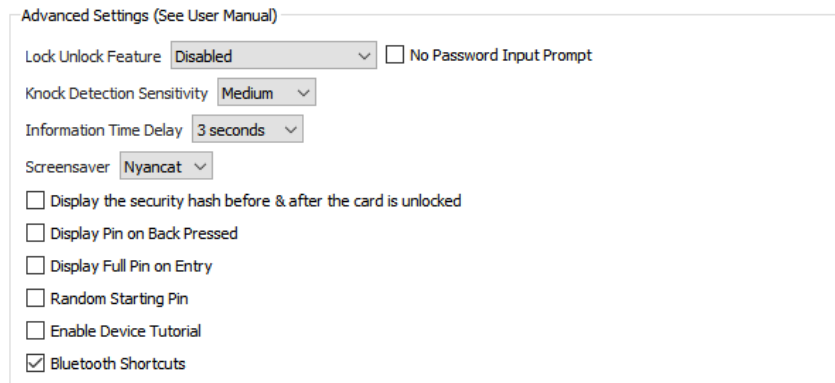
The screenshot shows the 'General Settings' menu with several checkboxes. 'Prompt Animation', 'Boot Animation', and 'Device Lock on USB Disconnection' are checked. 'Switch Off Device After USB Disconnection', 'Disable BLE on Card Removed', and 'Disable BLE on Device Lock' are unchecked.

In this subsection you can:

- Enable / Disable prompt animations for faster interactions with your device
- Disable the animation displayed at your device's boot

- Automatically lock your device whenever USB connection is removed
- Switch off your device upon USB disconnection
- Disable Bluetooth when the user card is removed from the device
- Disable Bluetooth when the device is locked

#### d) Advanced Settings



Advanced Settings (See User Manual)

Lock Unlock Feature **Disabled** ☐ No Password Input Prompt

Knock Detection Sensitivity **Medium**

Information Time Delay **3 seconds**

Screensaver **Nyancat**

☐ Display the security hash before & after the card is unlocked

☐ Display Pin on Back Pressed

☐ Display Full Pin on Entry

☐ Random Starting Pin

☐ Enable Device Tutorial

☒ Bluetooth Shortcuts

This subsection allows you to

- Adjust the knock detection sensitivity. When this feature is enabled inside the device menu (see [Knock Detection](#)), knocking twice approves a credentials sending request
- Select for how many seconds information should be displayed on the mini BLE screen
- Display a screen saver when the device is going to sleep when connected through USB
- Enable Hash Display Feature: when enabled, the device will display one hash string before and after unlocking your smartcard. By checking that these hashes do not change over the life of your device, you can make sure no one has tampered with your Mooltipass.
- Display your last entered PIN digit when going back one digit during PIN entry
- Display your full PIN on screen during PIN entry
- Starting with a random PIN value at PIN entry screen
- Make the Mooltipass display its tutorial the next time you plug it in
- Enable Bluetooth shortcuts inside the main device screen:
  - With the wheel pressed: down / up / down toggles the Bluetooth state
  - With the wheel pressed: up / down / up triggers a disconnection from the host



#### e) Advanced Settings – Lock Unlock Feature

With the lock unlock feature you can make your Mooltipass:

- unlock your computer when you unlock your device
- lock your computer when your smartcard is removed from the Mooltipass

Simply use the dedicated list to specify if a login and/or password should be sent after unlocking your smartcard. The Mooltipass Mini will then send a credential stored inside an ‘\_unlock\_’ service in your database. For help setting an ‘\_unlock\_’ service, please refer to section [III.a](#)).

Password Only	Sends the password stored inside your ‘_unlock_’ service, after unlocking your smartcard.
Login + Password	Sends the login and password stored inside your ‘_unlock_’ service, after unlocking your smartcard.
Enter + Password	Simulates an <i>Enter</i> key press then sends the password stored inside the ‘_unlock_’ service, after unlocking your smartcard.

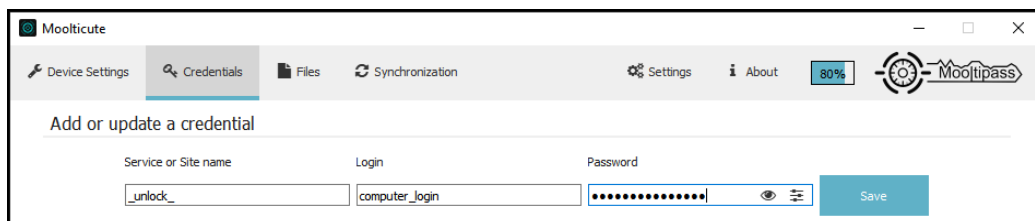
Please note that if the Mooltipass is set to prompt you for confirmation before sending credentials, it will do that here, too: the simulated key presses are sent when you accept the credential send request. You can also simulate a *Win + L* key press, locking your computer, every time the smartcard is removed from the Mooltipass.

Password / Win + L	Sends the password stored inside the ‘_unlock_’ service, after unlocking your smartcard <b>and</b> Simulates a <i>Win + L</i> key press when removing your smartcard from the Mooltipass.
Login + Pass / Win + L	Sends the login and password stored inside the ‘_unlock_’ service, after unlocking your smartcard <b>and</b> Simulates a <i>Win + L</i> key press when removing your smartcard from the Mooltipass.
Enter + Pass / Win + L	Simulates an <i>Enter</i> key press then sends the password stored inside the ‘_unlock_’ service, after unlocking your smartcard <b>and</b> Simulate a <i>Win + L</i> key press when removing your smartcard from the Mooltipass.

Finally, choose the *Disabled* option if you want to deactivate the Lock/Unlock Feature.

## D) Credentials Tab

### a) Adding or Updating a Credential



This tab allows you to manually add credentials to your database. You can, for instance, add the ‘\_unlock\_’ service of the Lock/Unlock feature (see [Advanced Settings – Lock Unlock Feature](#)).

Fill in the dedicated fields with the website URL or service name, in this instance ‘\_unlock\_’, then your login and your password. Click on the ‘Save’ button and approve the request on your Mooltipass device.

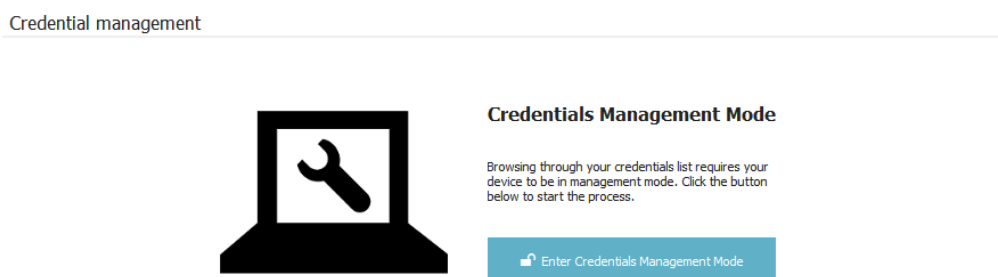
If the service/site and login are already stored in the Mooltipass, it will simply update the credential with the new password.

### b) User Categories Names



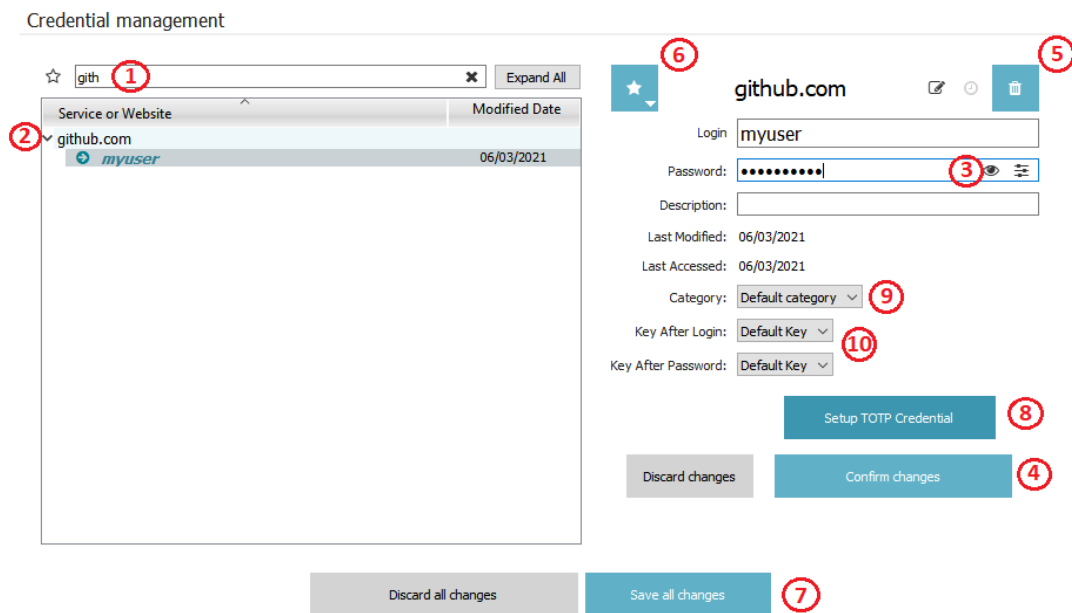
If your device is set in advanced mode (see [Enabling Advanced Mode / Enabling Simple Mode](#)) you can edit here the four category names and then trigger the name change save procedure.

### c) Credential Management



Click on the 'Enter Credentials Management Mode' button to manage the credentials stored inside your Mooltipass. You will need to confirm the request on the Mooltipass device.

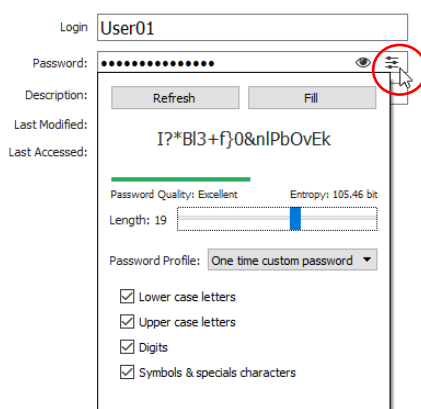
The 'Filter credentials...' search bar (1) can help you navigate through your credentials more easily.



Single clicking on a credential line (2) shows its details. To display the password, click on the eye icon (3) and use the wheel on the Mooltipass Mini to confirm the request. You may then **edit** your credentials. To save changes: click on the 'Confirm changes' button. To cancel the credential modification: simply hold the 'Discard changes' button (4).

You may **delete** a credential by clicking on the bin icon (5) or set a credential as **favorite** by clicking on the star icon (6) and choosing a slot in the list. If advanced mode is enabled on your device, you may select the credential category (9) and override which keys (10) are pressed after login & password typing during manual credential recalls.

To setup a TOTP credential, click on the dedicated button (8) to bring up a window that will allow you to enter your TOTP secret.

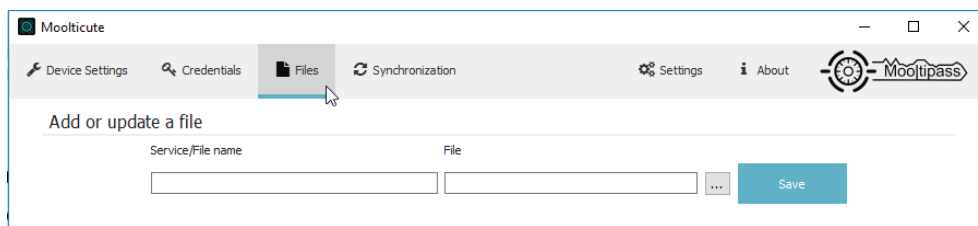


The second icon in the password bar gives you access to a password generator. This feature can help you set random, more secure passwords.

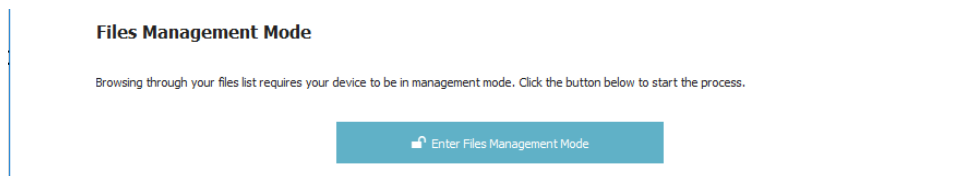
When you are done editing your credentials, click on the 'Save all changes' button and approve the modification requests on the Mooltipass. Otherwise, hold the 'Discard all changes' button to cancel (7).

## E) Files Tab

The Mooltipass device can operate as a flash drive. The 'Files' tab allows you to add, store and access files on your Mooltipass.



The first subsection of the 'Files' tab allows you to **add a file**. Click on the 'Save' button and confirm the request on the Mooltipass device. If the file's name matches a file already stored in the Mooltipass, the device will ask you if you want to update it. If you confirm the request, the file already stored will be deleted and replaced by the one you are adding.



Click on the 'Enter Files Management Mode' button to manage the files stored inside your Mooltipass. You will need to confirm the request on the Mooltipass device and reenter your PIN. You can then **access or delete files** stored on your device.

When you are done, click on the 'Save & Quit' button and approve the modification requests on the Mooltipass – or hold the 'Discard deletions' button, if you need to cancel.

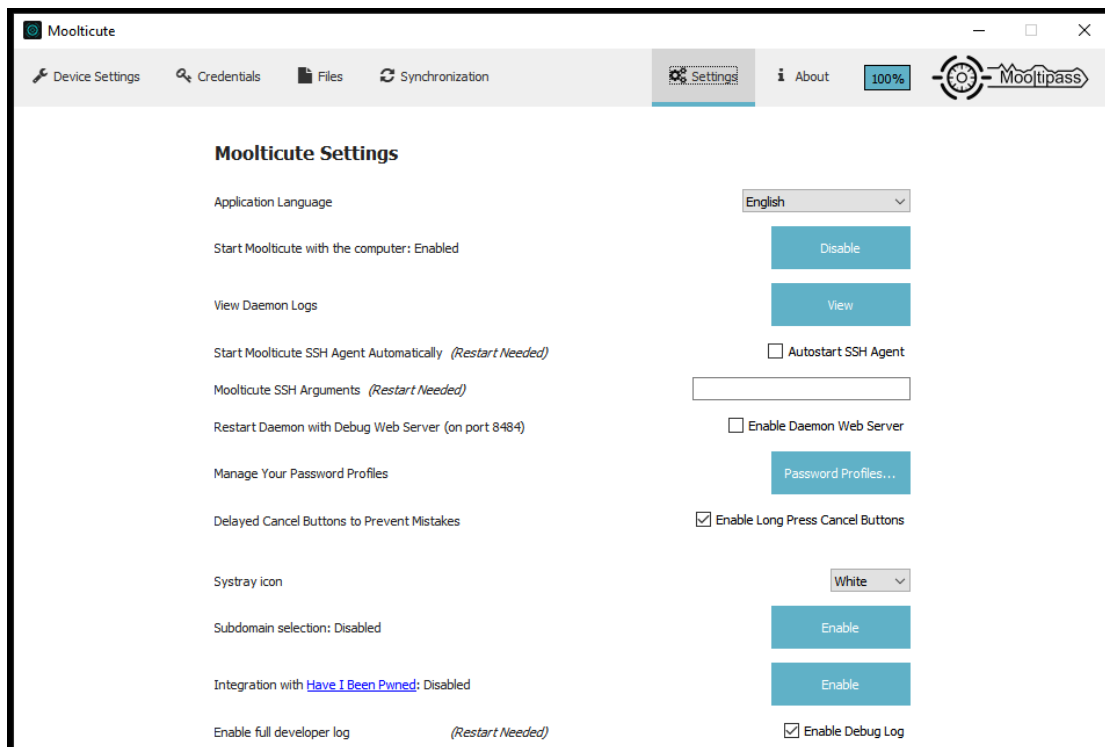
## F) Synchronization Tab

- The different buttons in the synchronization tab will allow you to **backup and restore the credentials** you have stored inside the memory of your Mooltipass.
- You can also select a **backup monitoring file** to make sure your Mooltipass database is always in sync with it. You will then be prompted for import or export operations if any changes to your Mooltipass database or monitored file are detected. It can be especially helpful to monitor a file in cloud storage (for instance, using the Dropbox™ service) that you can access on any computer.

When you use more than one Mooltipass device, these features allow you to keep your Mooltipass units synchronized. Please refer to the section covering this feature in the Mooltipass User Manual for more information on this topic.

## G) Settings Tab

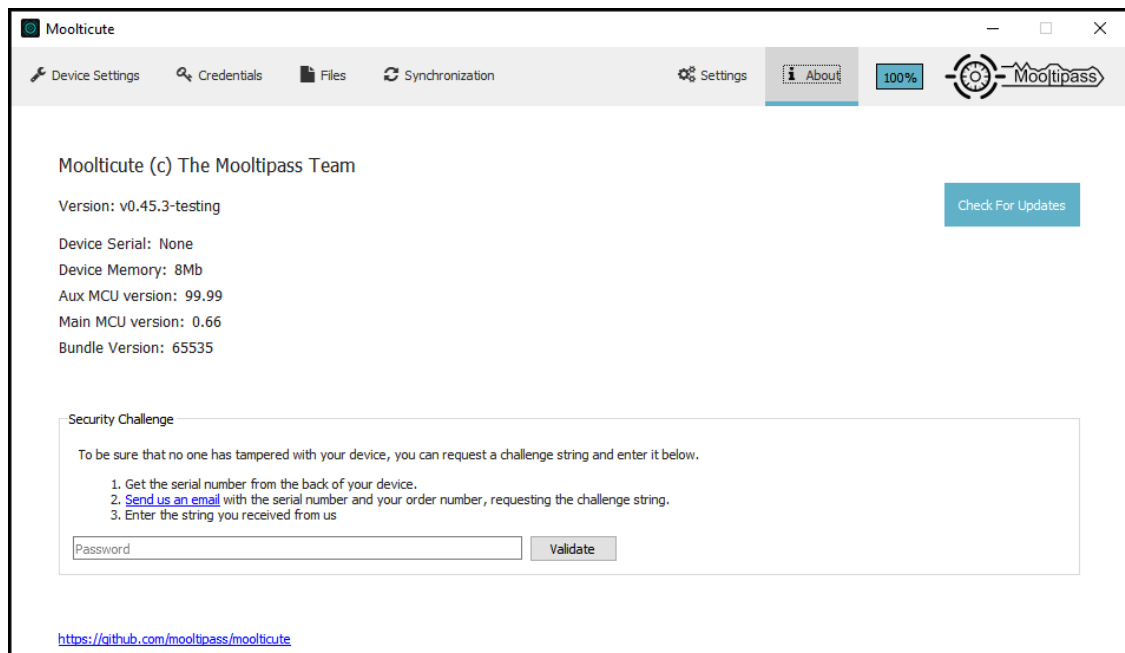
The top-right '*Settings*' tab changes parameters on the Moolticut app.



It allows you to:

- change the application language
- disable automatic start of the Moolticut app at boot
- view Moolticut's daemon logs
- enable SSH agent automatic start and customize its settings
- define the password profiles that you can choose from in the password generator. A password profile determines the types of characters (i.e. digits, symbols, lowercases...) that password includes
- enable long press cancel buttons to prevent you from accidentally cancelling changes that you have made
- change the system tray icon appearance
- enable or disable sub-domain support
- enable the integration with the 'have I been pwned' service, allowing you to make sure **your credentials haven't been compromised**
- enable the full developer's log (if the Mooltipass team instructs you to do so)
- change the default password length for the password generator

## H) About Tab



Finally, the 'About' tab provides you with general information about your device and app. It allows you to check if you are running the **latest version** of Moolticute.

In this tab, you can use the security challenge feature that allows you to make sure your device's firmware hasn't been tampered with. By sending us an email with your serial number, you may request a cryptographic token allowing you to check a unique identifier stored inside your Mooltipass Mini.

## IV. Synchronizing New Mooltipass Devices

To store your credentials on one or more additional Mooltipass devices, begin by making a backup of the data stored on your original device using the 'Export to File' button inside the 'Synchronization' tab of Moolticute. Insert your original card inside your new device, start Moolticute and import the backup file you just made.

When you use more than one Mooltipass device, you can use the different options in the 'Synchronization' tab to keep your Mooltipass units synchronized. See section [VII.](#) of the Moolticute User's Guide for more information on backup monitoring files.

## V. Native Integration without Browsers

The Mooltipass team is working to support other browsers and applications besides Google Chrome, Firefox or Opera. As this project is mostly built by volunteer contributors, you are welcome to contact us on #mooltipass on freenode.net if you are interested in giving us a hand.

In the meantime, you can use manual login as explained in the [previous sections](#) of this user manual. With manual login you can use the Mooltipass as a keyboard to type your credentials for you, without needing to install any additional applications.

## VI. Best Security Practices

To avoid any loss of data, these practices are highly recommended:

- Make at least one clone of your Mooltipass card
- Make multiple backups of your credentials database and store them in multiple places
- Enter your PIN discreetly so that no one can see it by looking over your shoulder
- Change your card's PIN and the passwords you use for important websites on a regular basis

## VII. Contact, Support

Have a look at the Frequently Asked Questions on <http://www.themooltipass.com/setup>. If you don't find the answer to your question there, contact us at [support\[at\]themooltipass\[dot\]com](mailto:support[at]themooltipass[dot]com).

## VIII. Mooltipass Mini BLE Specifications

- Device size: 90 x 35.5 x 12.5mm
- Working voltage: 4.75V to 5.25V
- Current consumption: up to 0.5A
- Communications: USB 2.0 full speed and Bluetooth Low Energy
- Internal Memory: 8Mb
- USB connector: USB-C
- Case material: Anodized Aluminum
- Smart card support: AT88SC102
- Interface type: clickable scroll wheel
- Display: 256x64 pixels 4bpp 2.08" blue OLED screen

## IX. Regulatory Mentions

### A) Wireless

**Warning:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### B) Battery

Change or disposal of the internal battery shall not include these operations:

- Replacement of a battery with an incorrect type that can defeat the internal safeguards
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion
- Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas
- A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas