



Application Notes

Amlogic USB Burning Tool V2 Guide

Revision 0.4

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Revision History

Revision	Date	Owner	Changes
0.1	July 30, 2013	Jinkai.li	Initial version release
0.2	August 1, 2013	Jinkai.li	Modify burning configurations
0.3	December 25, 2013	Jinkai.li	Modify UI and erase configurations
0.4	June 60, 2014	Jinkai.li	Modify Menu

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1. Overview

This tool is mainly used for image burning during mass product. It supports empty platform burning, non-empty platform erasing and upgrading, large image burning (image file >1G), key burning. The tool features easy operation and simple and intuitive UI.

2. Work Station Standard

Requirement on PC:

- Main clock: 2G or above
- Memory: 1GB
- Motherboard should support USB 2.0 HS mode or has USB3.0 host controller

Note: Not all the USB 2.0 controller supports high speed mode. In the "Device Manger", the controller that shows "Enhanced Host Controller" will support.

Requirement on OS:

- XP or Win 7
- Close antivirus software

HUB and USB Cable:

- "SSK" USB HUB --- SHU023(7-port)
- "SSK" USB cables are also recommended

DC:

- 5V/2.0A DC power supply to PCBA

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3. Tool UI and Operating Intro

3.1 Main

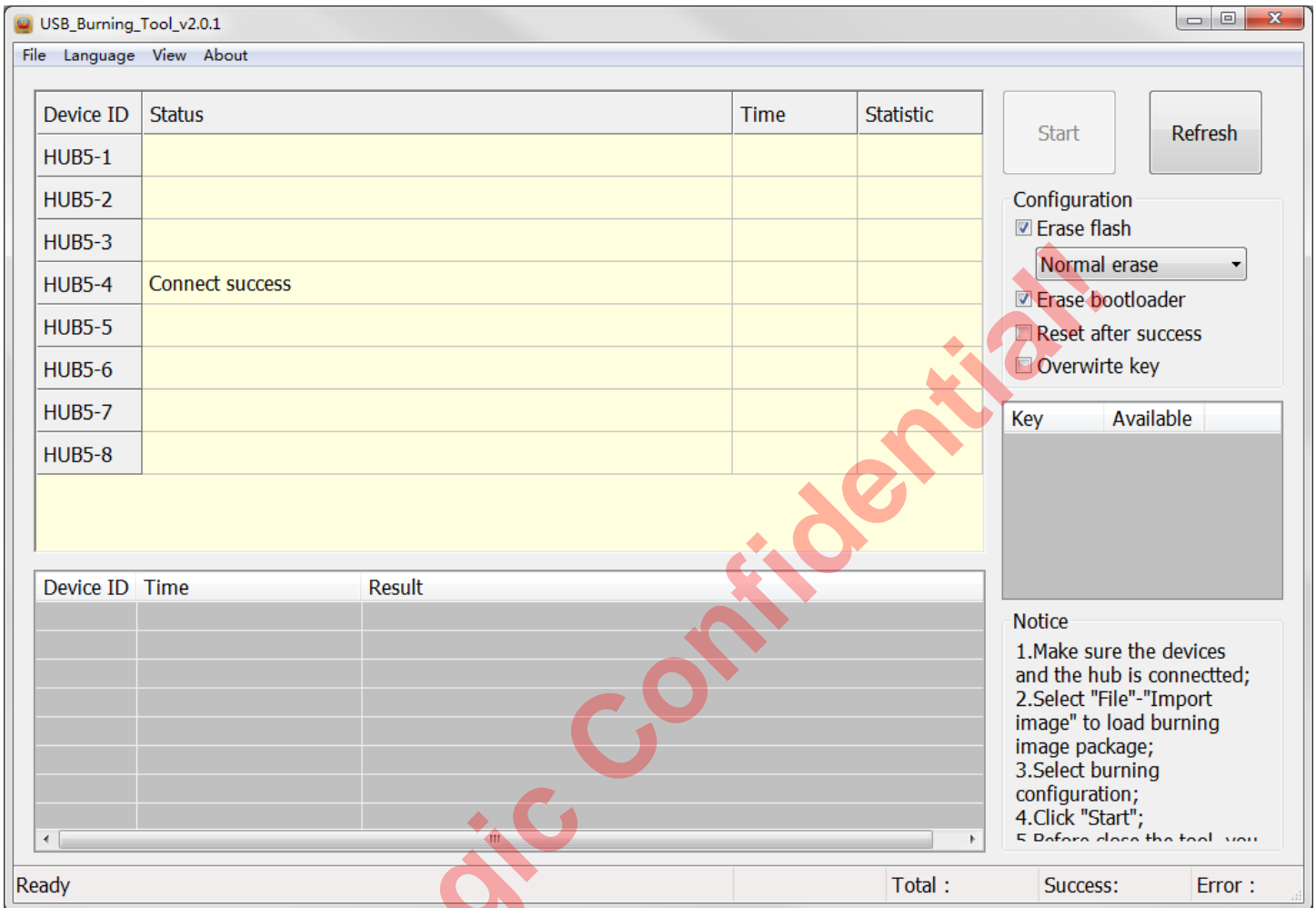


Figure 2.1 - Main

“Device ID” shows the related ports connected to hub. HUBx-4 means port #4. X shows the scanned hub number in sequence when scanning the USB devices. It is not a fixed value.

3.2 Connect Device

Before start burning, the devices need to be well connected. First power on SSK HUB, connect HUB to USB port of PC and enable the HUB ports which has platform connected. If it shows devices is successfully connected, the corresponding LED of the port will turn green and in the main interface, the status of the related port under device ID will show “Connect success”.

3.3 Load the Image

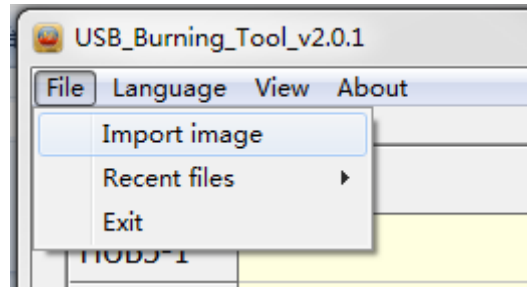


Figure 2.2 – Load Burning Image

Select and load the image file to be burned from the menu “File” – “Import Image”. It is also possible to choose the recent used image files through “Recent files”.

3.4 Burn

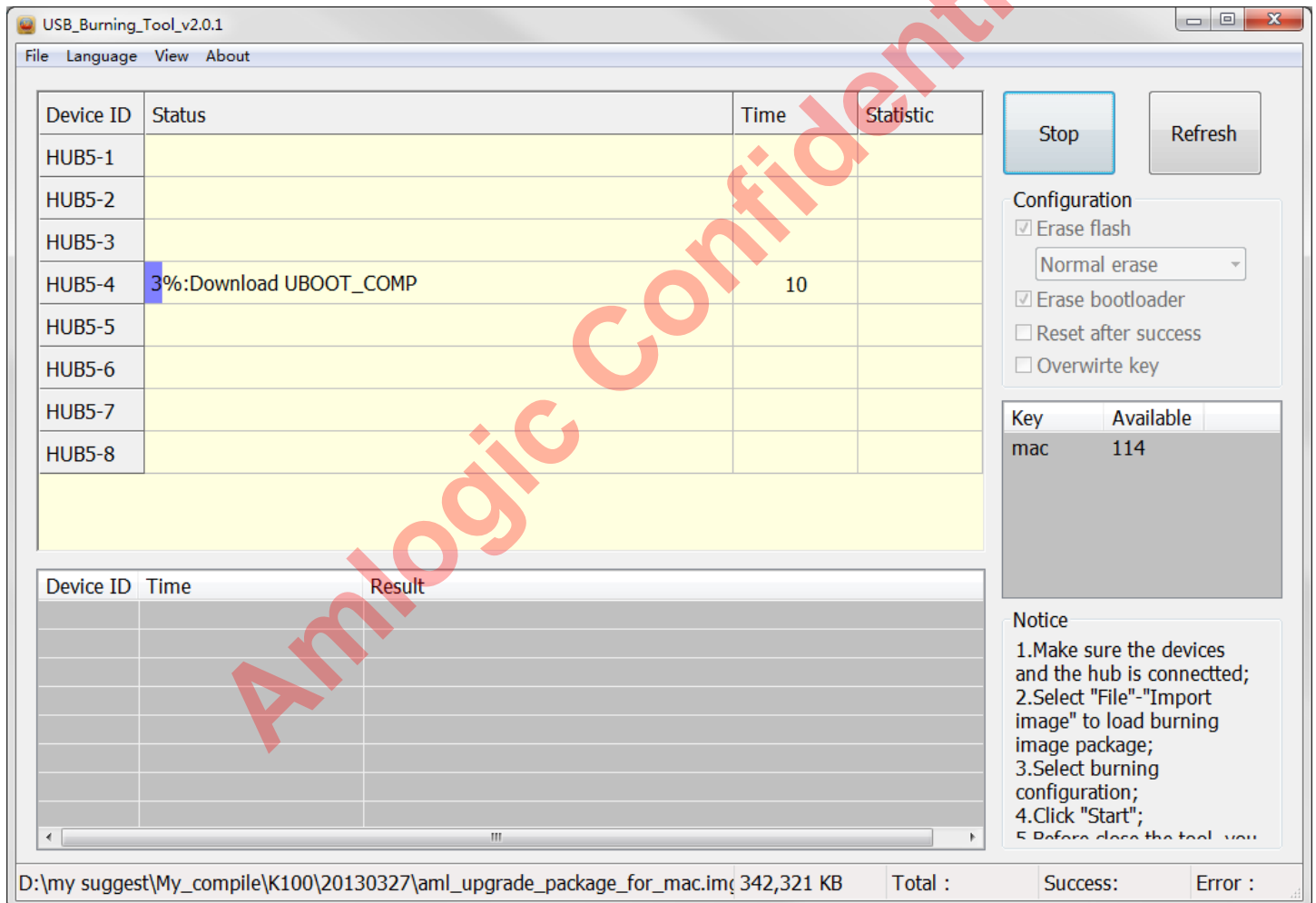


Figure 2.3 Under Image Burning

Click “Start” button to start the image burning. During the process, column “status” will show the percentage of the progress and column “time” shows the time burning has used.

3.5 Finish Burning

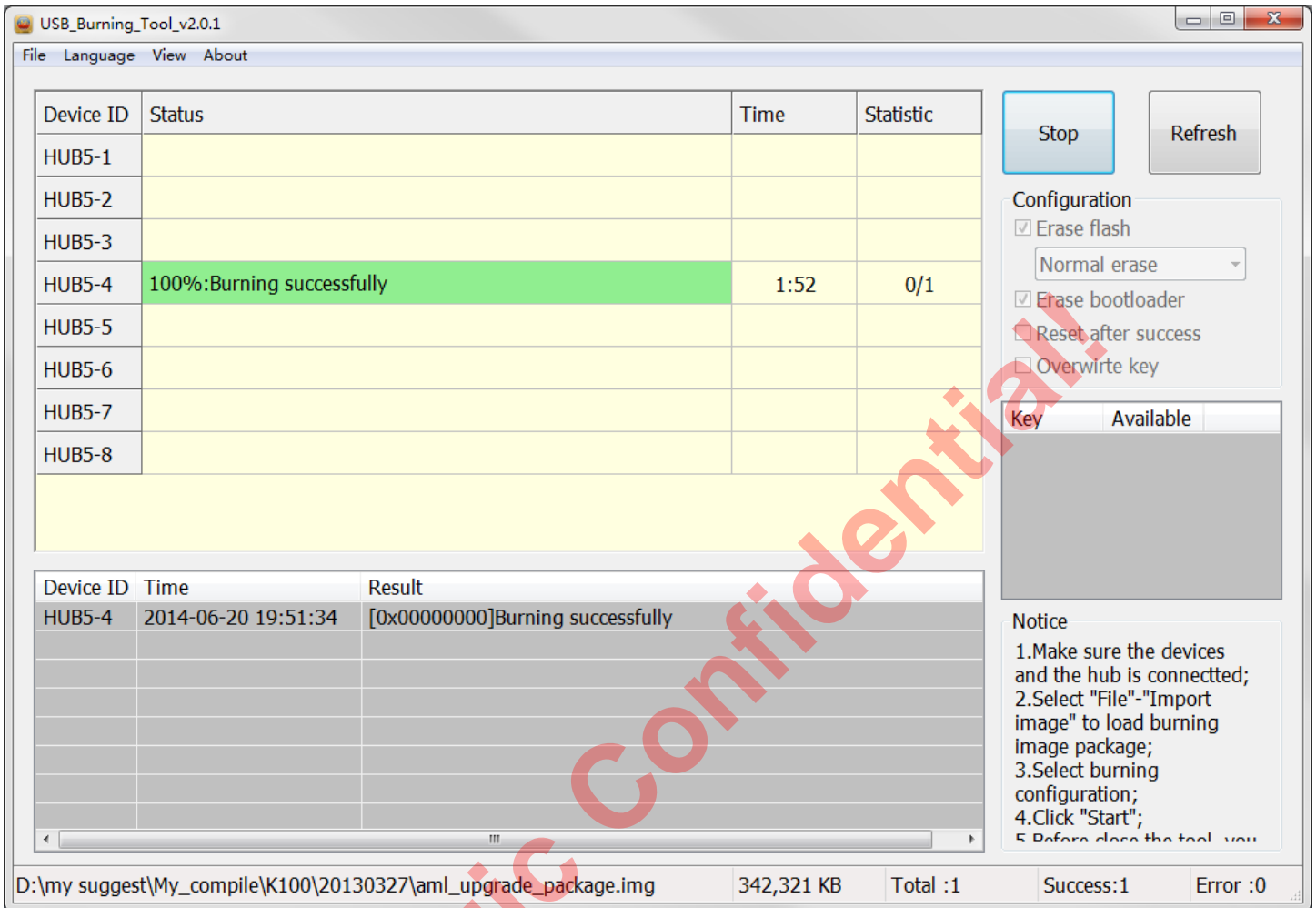


Figure 2.4 Burning successfully

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The screenshot shows the USB_Burning_Tool_v2.0.1 interface. The main window contains a table with columns: Device ID, Status, Time, and Statistic. The row for HUB5-4 is highlighted in red, indicating a failure. The status for HUB5-4 is "96%:mac failed", the time is "1:52", and the statistic is "1/1".

Device ID	Status	Time	Statistic
HUB5-1			
HUB5-2			
HUB5-3			
HUB5-4	96%:mac failed	1:52	1/1
HUB5-5			
HUB5-6			
HUB5-7			
HUB5-8			

Below the main table is a log table with columns: Device ID, Time, and Result.

Device ID	Time	Result
HUB5-4	2014-06-20 19:01:05	[0x33010502]Can not burn specified key at Uboot Key 1

At the bottom of the window, there is a status bar showing the file path: D:\my suggest\My_compile\K100\20130327\aml_upgrade_package_for_mac.im (342,321 KB), Total :1, Success:0, and Error :1.

On the right side, there is a "Configuration" panel with the following options:

- Erase flash
- Normal erase (dropdown menu)
- Erase bootloader
- Reset after success
- Overwrite key

Below the configuration panel is a "Key" table:

Key	Available
mac	114

At the bottom right, there is a "Notice" section with the following instructions:

1. Make sure the devices and the hub is connected;
2. Select "File"->"Import image" to load burning image package;
3. Select burning configuration;
4. Click "Start";
5. Before close the tool, you

Figure 2.5 Burning failed

After finish burning, column "Status" shows light green when successfully. Otherwise it shows red. Column "Statistic" represents "number of failure/Total burning number" of the current port". In the example shown in Figure 2.5, 1 device is burned at the current port and 0 fails.

At the bottom-right corner, it shows the statistics of all the ports. "Total" shows the total number of burned devices, "Success" shows the number of success and "Error" shows the number of failure.

If re-burning is needed, please re-plug the device and the tool will start to burn automatically.

3.6 Burning Configurations

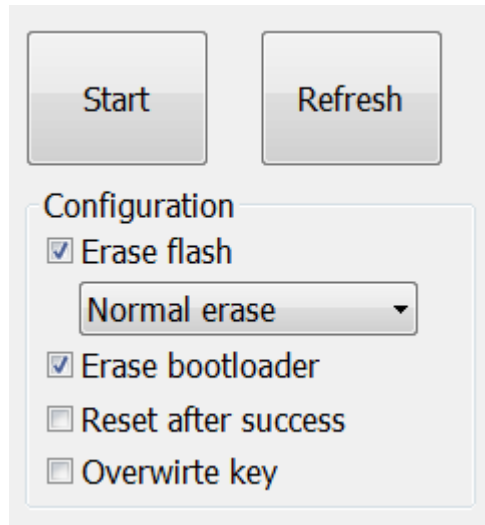


Figure 2.6 Burning Configurations

“Erase flash” means erasing flash. After checking, the user can select the erasing type from : Normal erase, Force erase, Erase all and Force erase all. The default is Normal erase.

“Erase bootloader” means erasing bootloader, which is on default.

“Reset after success” means rebooting the device after successfully burnt. The default is not rebooting.

“Overwrite key” means overwriting the existing keys. The default is not overwriting.

3.7 Statistics

Device ID	Time	Result

Figure 2.7 Statistics

“Device ID” corresponds to the “Device ID” in burning status list. “HUBx-4” represents for port #4; “Time” for the local time of finish or termination; “Result” for burning result.in format “[error code]message”. If successful, the error code will be 0x00000000. Otherwise it will be non-zero and the message will show the failure info. Double clicking result item will show the log during the current hour.

3.8 Log

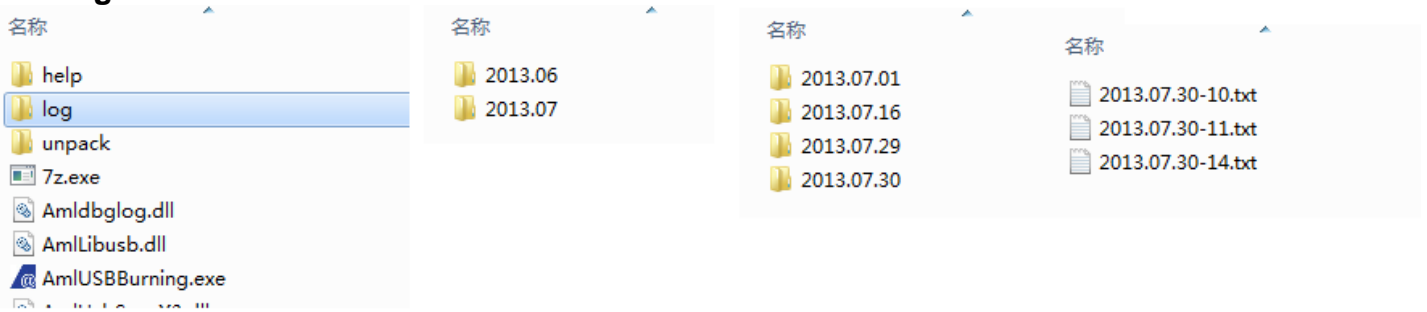


Figure 2.8 Log File

The log can be found under tool's "log" directory, which has sub folders including month and day. The sub-folder "2013.07" has the log of Jul,2013 stored and the sub-folder "2013.07.30" has the log of Jul.30,2014 stored. The final log are save in hour, e.g., "2013.07.30-10" means the log of 10:00 on Jul.30, 2014.

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4. Other Menus

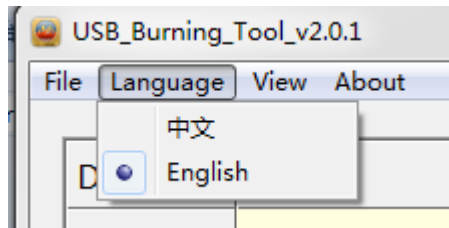


Figure 3.1 Language menu

“Language” menu lists the UI language which is support. The current language is set to “English”.

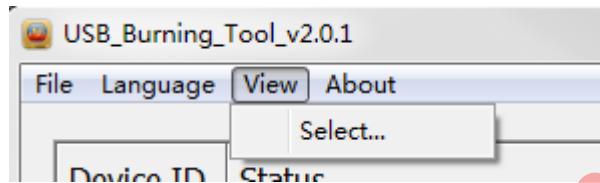


Figure 3.2 View menu

“View” menu“ is for adding which columns will be shown in the status list.

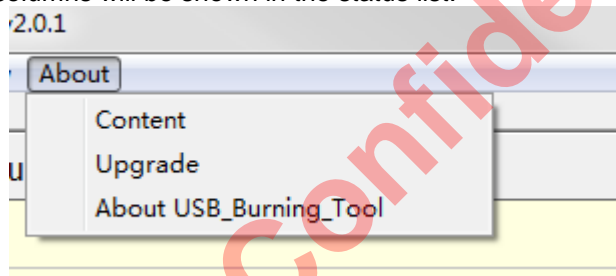


Figure 3.3 About menu

“Content” shows the help document.

“Upgrade” is for online update of the tool.

“About USB_Burning_Tool” shows the version info of the tool.