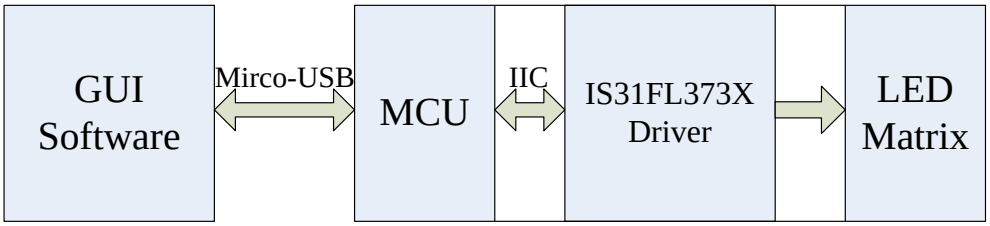
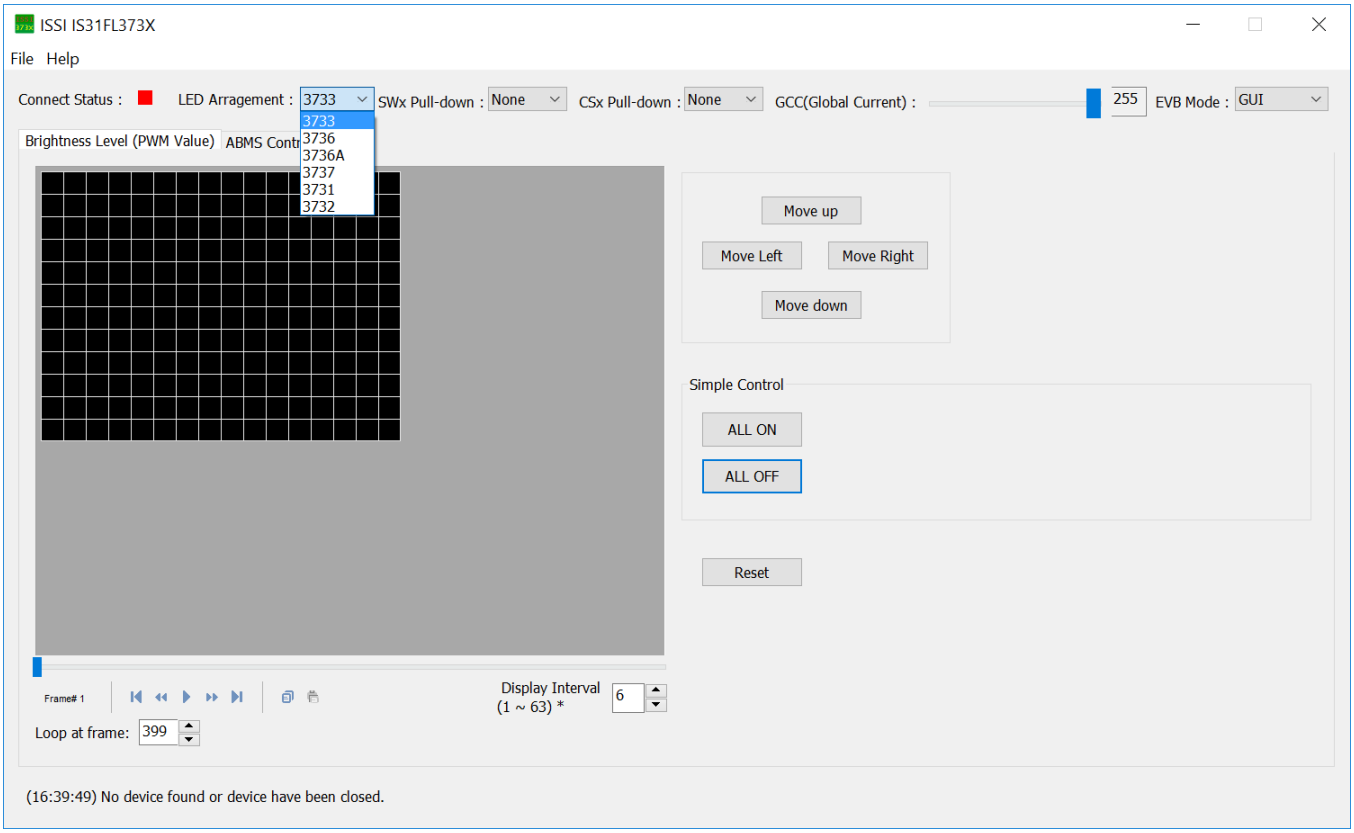
IS31FL373x GUI TOOL

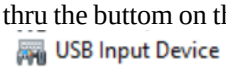
1 General Description



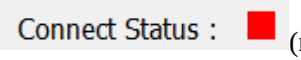
IS31FL373X.exe is the GUI tool for controlling the IS31FL373X evaluation board.
This tool support IS31FL3733, IS31FL3736, IS31FL3736A, IS31FL3737, IS31FL3731, IS31FL3732 and default is for IS31FL3733.



2 Software/Hardware Installation

When the evaluation board of IS31FL373X connect to the computer USB, the USB will work as the 5V power supply of EVB and it will run the demo mode, and the modes can be switched thru the buttom on the board. Once the tool is opened, the tool will install the driver automatically and be recognised as 

, the Connect Status will change form red to yellow and if connect successfully, it will finally stop at green, as below:

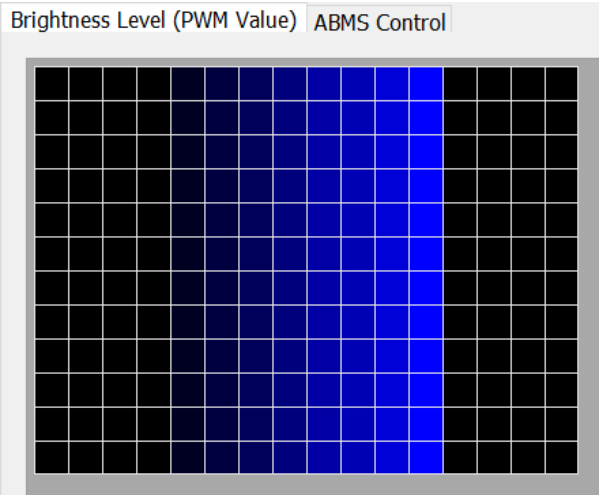


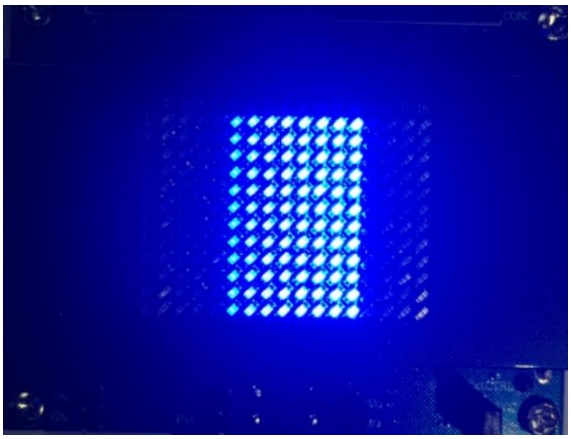
(not connected)=> (connecting)=> (connected)

The tool will select the corresponding LED arrangement, for example, if you connect IS31FL3731 evaluation board (Version>=V02A) to the computer's USB, the tool will recgnise it automatically and switch to IS31FL3731 page itself.

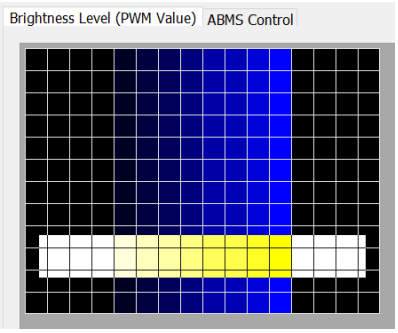
3 Using the PC Tool Software

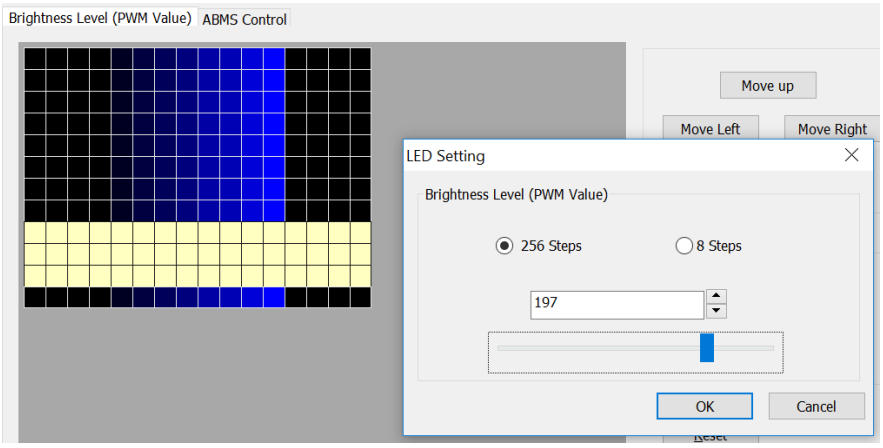
3.1 LED PWM control

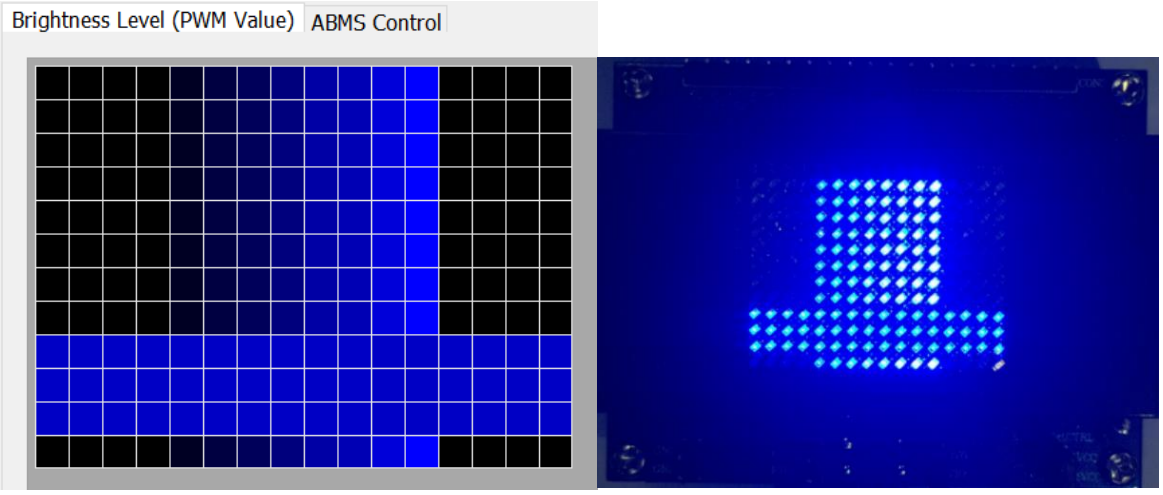




Click one dot and drag to another place, as below, the coverd dots will become white(if has PWM value alrady, will be a litter yellow), and come up a LED Setting box, to choose the PWM value, 8 steps/256 steps can be selected and after you set the value, click OK buttom or ENTER, the LED PWM will be set

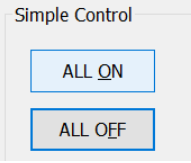




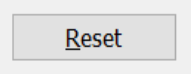


3.2 Shift and ON/OFF control

: the display will move and the complement position will be black or PWM=0.

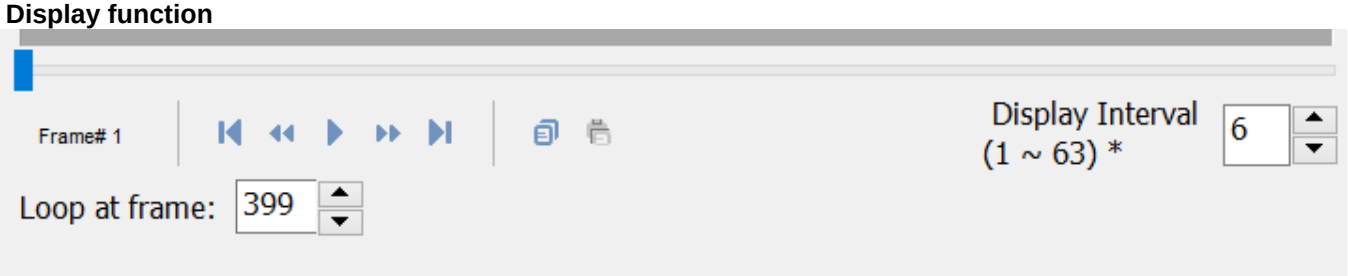


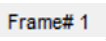
: will turn on or off the display



: will turn off the display

3.3 Display function



The slider and can select the current frame position, and the frame position is shown @ 

, when editing the current frame, copy( ) and pause( ) can be used to copy the current frame data to next frame.

The Loop at frame box select the last frame position, for example if Loop at frame =20, and when start to display( ), the display will go from frame 1 to frame 20, and frame 1 to frame 20, and frame 1 to frame 20…

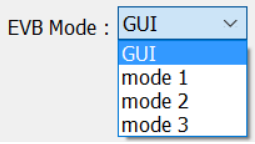
3.4 De-ghost function

:select the pull-up/pull-down res of SWx and CSx, please refer to IS31FL3733/ IS31FL3736/ IS31FL3736A/ IS31FL3737 datasheet for more information

3.5 Global function

: the global current can adjust from 0 to 255, except IS31FL3731, other EVB all support this function

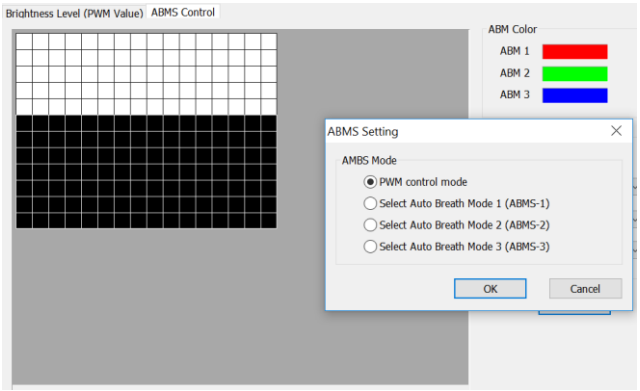
3.6 EVB mode function

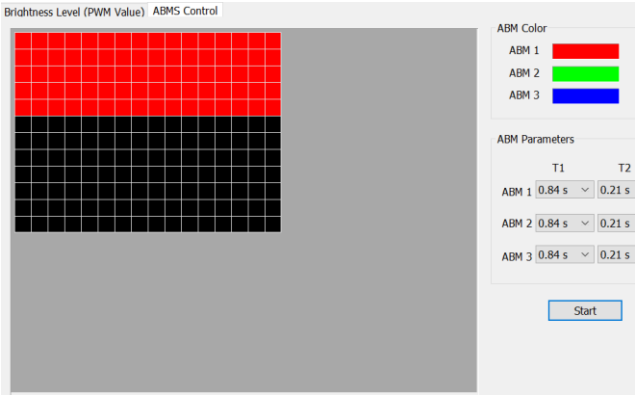


: this box can select the displaying mode, if select mode 1, mode 2 or mode 3, the GUI controlling will be disabled until select back to GUI

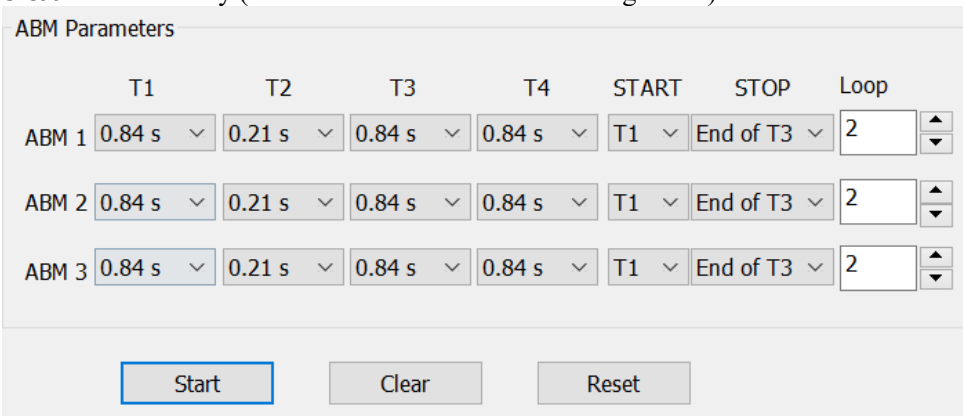
3.7 ABMS Control(For IS31FL3733, IS31FL3736, IS31FL3736A, IS31FL3737 only)

Like selecting the PWM, in ABM tab, default mode is PWM, need to select working mode of each LED, can assign a color to each ABM node.



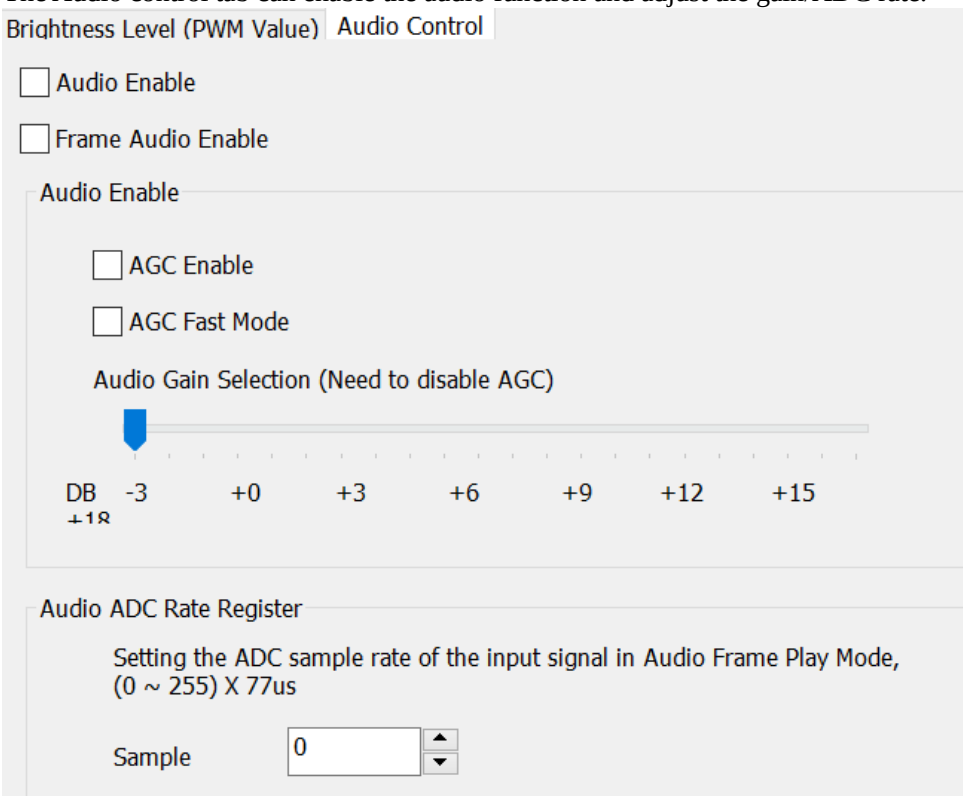


After selecting the working mode, and set the ABM time and loop parameters, click the Start button, the LED will breath automatically (the GUI can't follow the breathing status)



3.8 Audio function(For IS31FL3731, IS31FL3732 only)

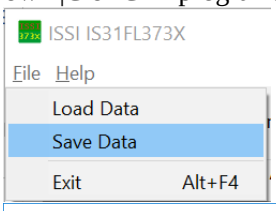
The Audio control tab can enable the audio function and adjust the gain/ADC rate.

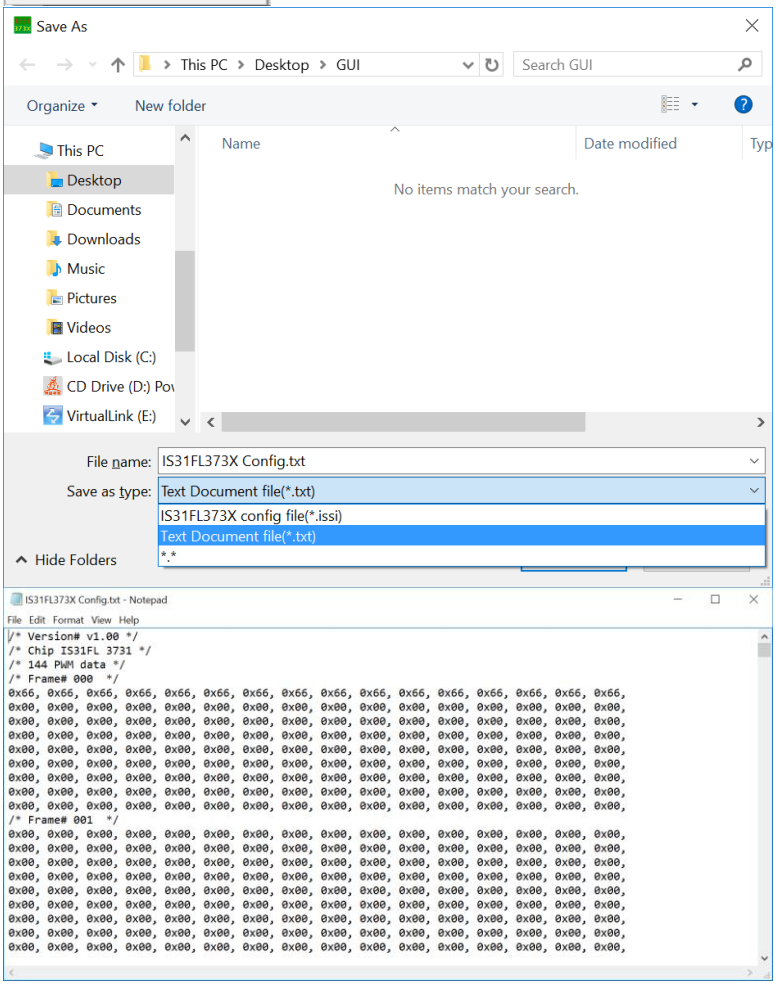


3.9 Save and Load data

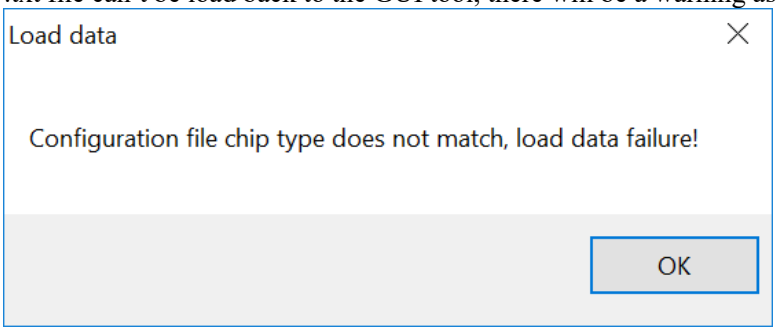
After edit the frames, the PWM data can be save to .txt or .issi format file.

.issi file is the format you can load back to this GUI tool, .txt format is all the 400 frames data for user copy to their own |C or C++ program.





.txt file can't be load back to the GUI tool, there will be a warning as below if loading the .txt file:



4 Revision History

Revision	Detail Information	Date
01A	Initial release	2016.07.13