ILITek iUniTouch Tool

User Guide

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ILI TECHNOLOGY CORP.

10F, No.1, Taiyuan 2nd St., Zhubei City, Hsinchu County 302, Taiwan Tel.886-3-5600099; Fax.886-3-5600585 http://www.ilitek.com/

Document Revision History

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1.01	2016/6/29	Vincent Chen	Added New Features	
1.02	2016/7/7	Kevin Chang	Added New Features	
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1 Description

ILITek iUniTouch Tool provides a configuration utility for all kinds of ILITek capacitive touch IC. This document would help to use ILITek iUniTouch Tool in detail.

1.1 System Requirements

- ILITek USB interface capacitive touch related products
- Windows OS: Windows XP SP3, Windows 7, Windows 8/8.1 and Windows 10
- Linux OS: Ubuntu 12.04.5, Ubuntu 14.04.4, Ubuntu 16.04.1

2 Software Installation

2.1 Windows Platform

Double click at the setup.exe file to start software driver installation. The setup program will guide user to complete software installation.



Figure 2-1: Setup.exe

Press Next button to continue installation.

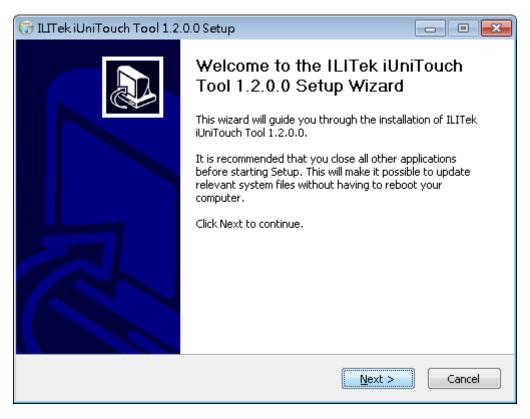


Figure 2-2: Welcome Installation

User can choose the destination folder. Press **Install** to continue.

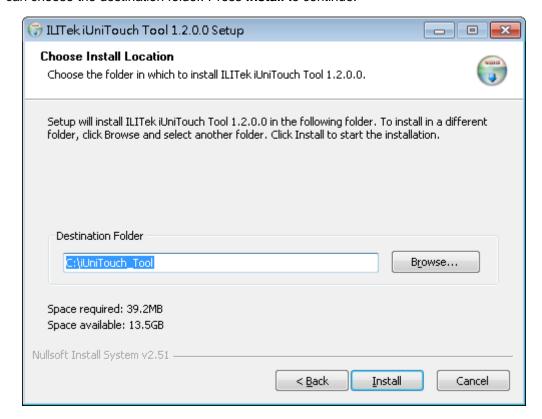


Figure 2-3: Destination Folder

Installation will take a few minute, please wait patiently.

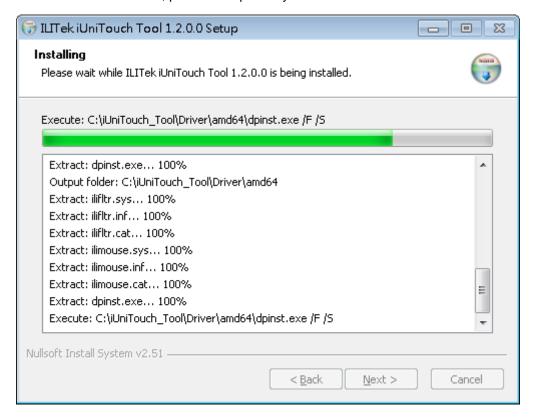


Figure 2-4: Installation Progress Window

When completed install please reboot your computer to make change take effect.

After reboot, you can see the ILITek iUniTouch Tool shortcut on desktop and start menu.

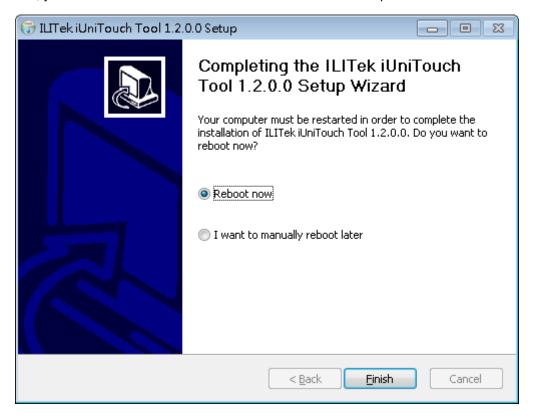


Figure 2-5: Installation finish

2.2 Linux Platform

Extract zip file

Use Ctrl+Alt+T shortcut to open terminal

Enter "sudo ./install.sh" command in extract folder (if you cannot execute shell file, please enter "sudo chmod +x install.sh" modify file permission)

Please reboot machine after installation finish

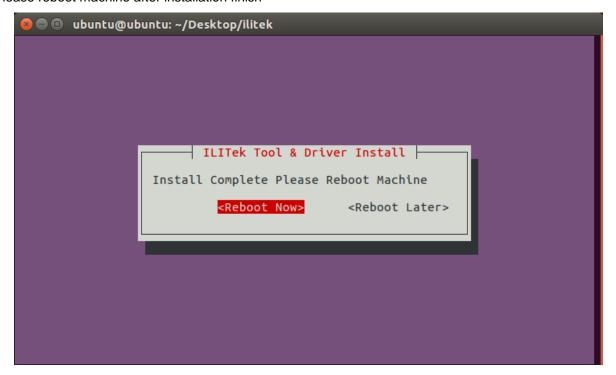


Figure 2-6: Installation finish

Application path is "/etc/ilitek/", you have to become root before you execute the application

3 ILITek iUniTouch Tool

The following sections describe the tool function. ILITek iUniTouch Tool provide the same user interface on windows and linux. Therefore, the functions will be introduced together.

3.1 TP List Page

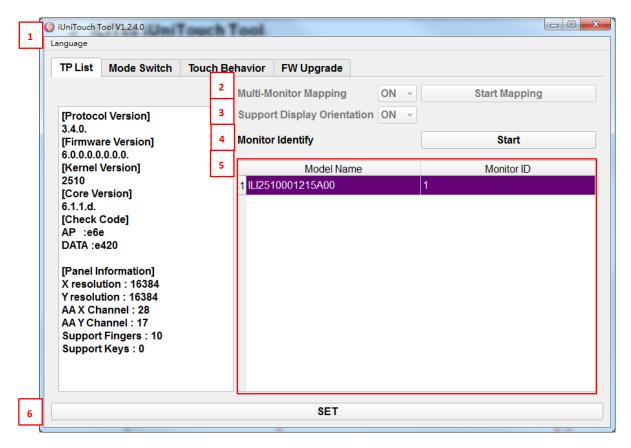


Figure 3-1: TP List Page

Table 3-1: Detailed description of TP List Page

No.	Item	Description	
1	Language Setting	The UI language selections provide English, Traditional Chinese and	
		Simplified Chinese.	
		Monitor mapping switch (for mouse mode only)	
2		If user select "ON", and then click "Start Mapping", This function will help user	
		to does monitor mapping. a new window will be popped-up on a monitor as	
		below	
		Condition exclusion	
		(a) If you plug / unplug a monitor and your 'touch to mouse' position was	
		incorrect, please remap again to fix it.	
		(b) If you change display settings and your "touch to mouse" position was	
		incorrect, close tool and launch again to fix it.	
		(c) Screen Orientation of both monitor must be the same.	
	Multi-Monitor Mapping		
		Or Or Not support more than 2 monitors.	
3		Monitor display orientation support. If user select "ON", this utility will correct	
U	Support Display the touchscreen orientation to match with monitor display orientation		
Orientation		whenever it detects monitor rotation.	
4	Monitor Identify	The tool shows the monitor ID on every screens	
5	TP List	User can double click to select the TP list in the window to do configuration for	
ŭ		it. Also, all of the other property pages will be updated for this selected TP.	
6	SET Button	Make change take effect.	
	OLI Batton	mano shango tano onoon	



Tap this screen with your finger to set it as the Tablet PC screen. If this is not Tablet PC screen. Press Enter to move to next screen. Press Esc to exit.

It will move to next screen in 10 seconds.

3.2 Mode Switch

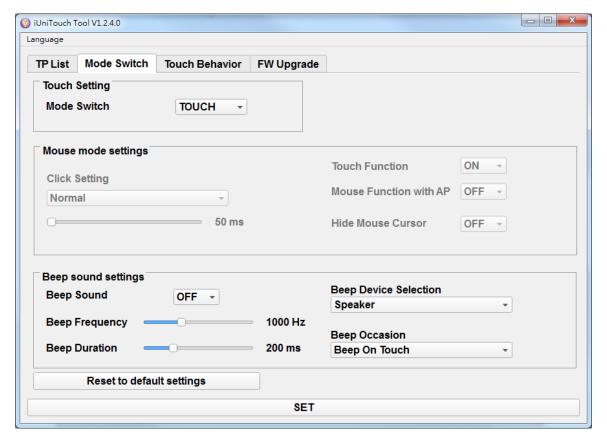


Figure 3-2: Mode Switch

Table 3-2: Detailed description of Mode Switch

No.	Item	Description
		If user select "MOUSE" TP will become mouse with configuration
1	Mode Switch	If user select "TOUCH" TP will become touch panel without
		configuration
2	Reset to default	Click to clear all settings and load default.
		Select "OFF" will turn off touch function.
3	Touch Function	• Note
		In multiple TP/Monitor system, Only one TP will be turned off.
4	Hide Mouse Cursor	Select "ON" will hide mouse cursor (Linux has no this item)
5	Mouse Function with AP Configuration whether resident with software	
		There are 7 mouse emulation modes for ILITek touchscreen
6	Click Sotting	controllers. Click combo box to change the emulation mode.
0	Click Setting	1. Normal
		Behaves mouse button down and mouse move. User can select this

mode to select object, and dragging the object.

2. Drag OFF

With this "Drag OFF" mode, the driver emulates a mouse release when the finger move or finger release.

3. Click on touch

With this "Click on touch" mode, the driver emulates a mouse click event when the touchscreen state was switched from un-touched state to touched state. Then, the driver always generate mouse move event and is tracking the touch position until the touchscreen state switched to un-touch state.

4. Click on touch without moving cursor

With this mode, the driver behaves similar as "Click on touch" mode. The cursor does not move to the touch position except the first touch point.

5. Click on release (needs fw support)

With this "Click on release" mode, the driver emulates a mouse click event when the touchscreen state was switched from touched state to un-touched state.

6. Click on release without moving cursor (needs fw support)

With this mode, the driver behaves similar as "Click on release" mode. The cursor does not move to the touch position except the lift-off point.

7. Desktop mode

With this mode, the driver behaves similar as "Normal" Mode. But the driver will not report mouse button down immediately after user touches down.

User needs to touch and stay at one point for a few milliseconds and then the driver will report mouse touch down.

The following slider is used to set time period.

Finger Option	Touch TP	Moving after touch	Leave TP
Normal	Press left button	Move cursor	Release left button
Drag Off	Press left button	Release left button	Release left button
Click on touch	Click left button	Move cursor	No action
Click on touch	Move cursor	No action	No action

iUniTouch Tool

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		without moving	and click left		
		cursor	button		
		Click on release	Move cursor	Move cursor	Click left button
		Click on release	No action	No action	Move cursor
		without moving			and click left
		cursor			button
		Desktop mode	Press left	Move cursor	Release left
			button (Need		button
			to wait)		
		● Note			
		In multiple TP/Monit	tor system, Only	one TP will be	changed.
7	Beep Sound	Beep sound on/off switch.			
		User can select beep occasion			
8	Beep Occasion	Beep On Touch meaning driver generate beep when finger touch TP			
	Beep Occasion	Beep On Release meaning driver generate beep when finger			
		release TP			
9	Beep Frequency	Adjust the beep sou	ınd frequency, s	et range 500Hz-	-2000Hz
10	Beep Duration	Adjust the beep sound duration, set range 100ms~500ms		600ms	
		To select beep from	buzzer or spea	ker (Linux has n	o this item)
11	Beep Device Selection	Condition excl(a) Beep from spea		ouch tool is runi	ning.

3.3 Touch Behavior

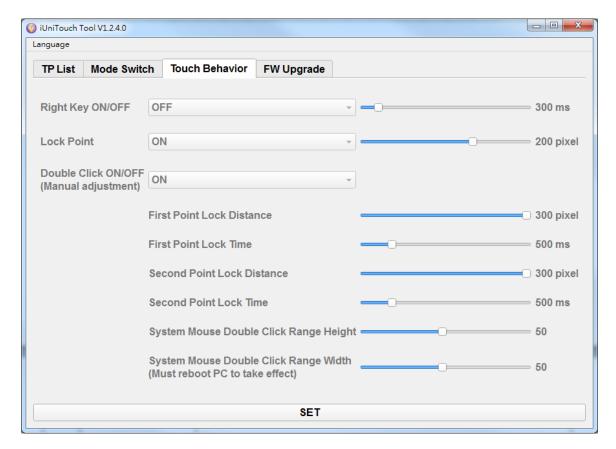


Figure 3-3: Touch Behavior

Table 3-3: Detailed description of Touch Behavior

No.	Item	Description
		If the touchscreen was kept touched for a specified time, the driver will generate
1	Right Key ON/OFF	a mouse right button click event if this function was enabled.
		The following slider used to adjust trigger time.
		Two continuous clicks at the same area within this specified time and area will
		be recognized as a double click event.
		When select "OFF" the following sliders used to adjust area and time to prevent
2	Davida Cliak ON/OFF	OS recognized two continuous clicks as a double click event.
_ Z	Double Click ON/OFF	
		Condition exclusion
		Due to "System Mouse Double Click Range" is setting of Windows, must reboot
		System to take effect. (Linux has no this item)
		If Lock Point is "ON", this is a criterion to judge if the most recent touched point
	Lock Point	is same as the previous touched point. If the points difference is within this area,
3		it will be recognized as the same touch point and the driver does not generate
		new mouse event for this new touch point.

3.4 FW Upgrade

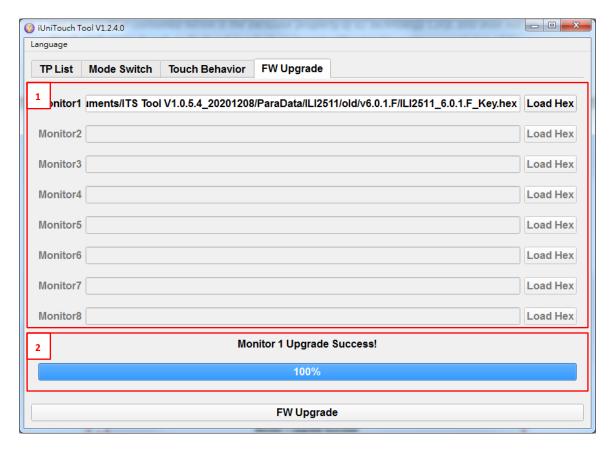


Figure 3-4: FW Upgrade

Table 3-4: Detail description of FW Upgrade

No.	Item	Description		
1	Hex File Selection User select hex for FW upgrade			
2 Up		Show FW upgrade progress during upgrade FW		
	Upgrade Progress	Note1. After upgrade completed, have to reboot system or re-plug		
		Device to make it effect.		
		2. If you use other application to upgrade FW, Multi-monitor mapping will lose. You have to map again (reference to section		
		3.1)		