Composite Screen Configure Manual

Since mt_driver_kit_v4.1005beta, the multi touch platform support composite touch screens with a single PC.

Composite screen need to be configured in "mtsvrset.xml". Below is the detailed configuration.

Organization of Composite Screen configure

The composite screen is organized with configuration in mtsvrset.xml.

You can find <composite_screen ...> element as below in the file:

<composite_screen total_row="1" total_col="5">

The "total_row" and "total_col" indicates how the 5 screens splicing, take "total_row=1 total_col=5" as an example, the screens will look as below:



Graph 1. Sample of composite-screen's arrange

For example, the "serial_number=IR5210908050 row_in_matrix=0 col_in_matrix=0" is the first screen in the matrix.



Modification of "mtsvrset.xml" when replacing physical screen

For example: replacing the "ir5210908050" with "ir5210908049".

Step1. Exit the "MultiTouchplatform.exe".

Step2. Go to the setup directory of MultiTouchPlatform, find the original "mtsvrset.xml", open it with "notepad.exe". Find the "<composite_screen...>" element, then find "<physical_screen serial_number"IR5210908049...> like below:



Modify the "serial_number = IR5210908050" to be "serial_number=IR5210908049", the result should look like below:



Ok, save it.

Step3. Start the MultiTouchPlatform.exe and enjoy it.

Add display or touch screen

If you want to add display, for example, you want to map the touch screen over **3** displays, you need to :

- a. Find "PQIntallTouch.exe" in the driver setup directory (usually be "C:\Program Files\PQLabs\MultiTouchDriver"), run it once(there is already 2 installed as default).
- b. After run the PQInstallTouch.exe, you should find **3** "PQLabs Multi Touchscreen" in the "Human interface devices" of "device manager".

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Þ	📲 Display adapters
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c. Exit the "MultiTouchPlatform.exe" and modify the "mtsvrset.xml" in the MultiTouchPlatform setup directory. Take the "group_id=1" composite_screen for example. Modify the

 $<\!\!composite_screen group_id="1" digitizer_mode="separate" total_row="1" total_col="2">$

<physical_screen serial_number="ir32**" row_in_matrix="0" col_in_matrix="0">

<calibration param0="1.000000" ... />

</physical_screen>

<physical_screen serial_number="ir22**" row_in_matrix="0" col_in_matrix="1">

<calibration param0="1.000000" ... />

</physical_screen>

</composite_screen>

d. Restart the computer and start the MultiTouchPlatform.

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Configure Windows 7 to support multi digitizer

Windows 7 need to configure the relationship between display monitor and touch screen one by one, please do it after installation.

Step 1.

Pen and Jouch Change tablet pen settings 2. click here © Search Windows Help and Support for "tablet" Display Other Configure your pen and touch displays. Display options Display options Display: <u>i. Mobile PC Display</u> Details: Touch Input Available <u>© Calibrate</u> Choose the order in which your screen rotates. <u>Go to Orientation</u>	et x	1. Type "tablet" Tablet PC Settings	Control Panel Control Panel Tablet PC Settings Set tablet buttons to perform certain tasks
		Display Other Configure 3. then click "Setup" Configure your pen and touch displays. Display options Display: 1. Mobile PC Display Details: Touch Input Available @Calibrate Choose the order in which your screen rotates. Go to Orientation	Pen and Touch Change tablet pen settings 2. click here Search Windows Help and Support for "tablet"

Step 2.





Calibration of digitizer to display

Windows 7 has a calibration tool for touch device(digitizer), it's calibration for every touch digitizer to one display monitor (attention: it's one to one). Use the calibration when you need to touch in the desktop on windows 7 or some application based on WM_TOUCH of windows 7.

Step 1.

Display Other Configure Configure your pen and touch displays. Display options Display: Display: 1. Mobile PC Display	Tablet PC	C Settings					
Configure Configure your pen and touch displays. Display options Display: Details: Touch Input Available	Display Other						
Display options Display: 1. Mobile PC Display Details: Touch Input Available	Configure Configure your pen and touch displays.						
Display: 1. Mobile PC Display Details: Touch Input Available	Display	options					
Details: Touch Input Available	Display:	1. Mobile PC Display					
	Details:	: Touch Input Available					
click here Calibrate Choose the order in which your screen rotates. <u>Go to Orientation</u>							

Step 2.



Calibration of Touch Screen to each display

Use the "Calibration" of MultiTouchPlatform when you need to touch in some applications based on sdk of PQLabs or demos of PQLabs.

Attention: the first display should be **main** display and the base point (0,0) should be in the first display, and the resolution of the displays should be equal before calibration.

😡 🖉 < Display 🕨 Screen Resolution	✓ [€] → Search Control Panel	٩
Change the appearance of your displays		
	Detect Identify	
Display: 1. Mobile PC Display 🔻		
Resolution: 1280 × 800 (recommended)		
Orientation: Landscape 🔻		
Multiple displays: Extend these displays		
This is currently your main display.	Advanced settings	
Connect to a projector (or press the 🚑 key and tap P)		
Make text and other items larger or smaller		
what display settings should I choose?		
O	Cancel Apply	

Step 1.

PQLabs - MultiTouch Platform (Device Connected)				
Move Sensitivity	Version 4. 1008 (build 02645) Physical Information			
	Serial Number: ir 3210811234 👻			
Low High	Firmware: 3.00.0014			
	Hardware: 2.80			
Double Click Speed	Screen: G3 Plus (32) points			
	Composite Position: (Row: 1,Col: 1) of [1,2]			
Slow Fast	Status: running ok			
	Option			
Big Point Scope				
	FlashTuio RecordData			
Narrow Wide	Calibration Restore			
Launch on Windows Startup	Advanced(D)			
OK Can	cel Apply Restore All(R)			

Current calibration touch screen is "ir3210811234", it's the first touch screen(Row:1,Col:1 of [1,2]) in the composite screen.

Step 2.



The calibration "+" will display on the first display relative to the composite screen position (Row:1,Col:1 of [1,2]).