



# Windows 7 Touch Support

Current Status January 2012

The MT2-64W-Win7 driver adds a virtual interface on top of the standard MT2 driver, which provides Windows 7 Touch support for the Suntronic Touch™. The driver currently supports one and two fingered touch events and gestures, as defined in the Windows 7 Touch API.

In addition to this, we have produced a table of functionality for each of the touch, flick, and gesture events using the Suntronic Touch™:

### Touch Events

<http://msdn.microsoft.com/en-us/library/nmicrosoft.ink.systemgesture.aspx - Y136>

Touch Event	Member	Status	Comments
Hover	HoverEnter HoverLeave	Not Available	The touchfoil™ driver does not support this event
Double Tap	DoubleTap	Available	This occurs when the user touches the touchfoil™ twice in quick succession
Tap	Tap	Available	This occurs when the user taps (touch and release) the touchfoil™
Press & Hold	RightTap	Available	This occurs when the user touches and holds for more than 2 seconds
Drag	Drag	Available	This occurs when the user touches and moves their finger across the touchfoil™
Press, Hold & Drag	RightDrag	Available	This will occur after the Press & Hold event if the user moves their finger across the touchfoil™
Select	Hold Enter Hold Leave	Available	This is similar to a Drag, however no element is being dragged. Rather, a bounding box is created around the element/s to select it/them
Flick	Flick	Available	See "Flicks" section below

### Flicks

<http://msdn.microsoft.com/en-us/Ubrrary/windows/desktop/cc872774.aspx - concepts>

Touch Event	Status	Comments
Drag Up	Available	These flicks essentially reproduce keyboard shortcuts (ctrl+c for copy etc.). In practice we have found the editing (last k in list) flicks to be fairly unintuitive- requiring the user to remember the specific direction for each command. The keystrokes that the flicks emulate can be customised by the system user, or interpreted by the application developer to perform specific application functions.
Drag Down	Available	
Move Forward	Available	
Move Back	Available	
Delete	Available	
Copy	Available	
Paste	Available	
Undo	Available	

### Touch Gestures

[http://msdn.microsoft.com/en-us/li brary/windows/desktop/dd353232\(v=VS.85\).aspx](http://msdn.microsoft.com/en-us/li brary/windows/desktop/dd353232(v=VS.85).aspx)

Gesture Event	Member	Status	Comments
Pinch & Zoom	GID_ZOOM	Available	Works reliably down to the cell size of the touchfoil™ (dependent on touchfoil™ size).
Pan	GID_PAN	Available	Works well using k fingers (much like the hand icon that Windows displays)
Rotate	GID_ROTATE	Available	Works reliably with finger distances (axis) down to the cell size of the touchfoil™
Two Fingered Tap	GIF_TWOFIN GERTAP	Available	Works, however due to the cell size, is fairly unintuitive (user has to spread their fingers wider than the touchfoil™ cell size)
Press & Tap	GID_PRESS ANDTAP	Available	Works however see above

## Known Limitations / Bugs

1. Windows Touch not working (user does not get "blue-dot" cursor after enabling Windows 7 Touch in Touch Options panel. This is a known issue, solution can be found below under heading "**Windows Touch not working**")
2. X/Y axis tracking is reversed. When running your finger along the X-axis of the touchfoil, the driver displays the sensor output on the Y-axis, and vice-versa. This does not affect the correct operation of the touchfoil.
3. Finger pressure indicator does not work in the same way as previous drivers, and on some monitors is very hard to see.
- k. Early versions of the driver are not available for 64-bit versions of Windows 7. Please see below under heading "**Failed Installation**"
5. Uninstaller does not remove the device driver from the system (manual uninstall is required). Please see below under heading "**Correct Uninstall Procedure**"

## Windows Touch Not Working

This is a known issue with early distributions of the Suntronic Touch™ driver Win7. When the Windows 7 Touch Support is enabled, the visualplanet virtual driver (UMDF.exe) is invoked. On some early distributions, this process fails and quits and therefore Windows 7 Touch does not function. You can check if this is the case by running task manager and checking for the process "UMDF.exe" under the processes tab. Please notify visualplanet of this error and we will direct you to the latest driver, which fixes this issue.

## Failed Installation

This is a known issue with early distributions of the touchfoil™ driver Win7 on machines running a 64-bit version of Windows 7. When installing using the file touchfoilDriver.exe the installation fails when the installer executes the file "twotouchAdd.exe". The message that is displayed in the command prompt is:

**SetupDiCallClassInstaller: Error Code: -536870347** The installer will only successfully run on machines running a 32-bit version of Windows 7.

The latest driver fixes this problem, and supports both 32 and 64-bit versions of Windows. Please notify visualplanet, and we will direct you to the latest driver

## Correct Uninstall Procedure

Please make sure that you follow the uninstall procedure as described in the document "touchfoil driver -MT2-64W-Win7 installation and setup guide v1.0.pdf".

We are working to improve the uninstall process, to minimise manual user intervention