onyx
▶TOUCH

onyxTOUCH quick start guide version 1.0

1. What comes with your onyxTOUCH?

The onyxTOUCH is a multi touch display which works with InGlass touch technology based on total internal reflection of light. Following accessories are included:

- Power supply cable for the display
- Remote control for the display
- Mains adaptor incl. cable
- USB cable (USB Type A Male / A Male)
- USB extension cable (USB Type A)
- USB stick including all necessary documentation and software

2. Installation

2.1 Mechanical Installation

As onyxTOUCH display components are always LCD, some installations are not allowed. This could be an installation in a table or maybe in portrait mode. Please make sure the display manufacturer allows the way you want to install the display. In some cases it might be necessary to install additional fans to guarantee a safe ventilation of the display.

2.2 Connection to PC

To use the system with a PC please connect the USB cable (Type A Male / A Male) with an USB 2.0 port of the PC. Note that you have to use USB 2.0 because compatibility is not complete at USB 3.0. If necessary you can also use the USB extension. Plug in the mains adaptor at the onyxTOUCH and fix the nut carefully. Make sure that each cable is clipped to the cable anchorage to prevent broken controller parts.

2.3 Installation on Linux/Android

onyxTOUCH supports ARM/Linux and ARM/Linux/Android, for both X86 and ARM. If the Linux Kernel version is 3.5 or higher, the HID multitouch driver is included in mainline Kernel and will work out-of-the-box. If 3.4 or older, you may need to apply a patch to add multitouch support ("hid-multitouch driver with autodetection").

2.4 Installation on Windows

onyxTOUCH supports Windows since Windows 7.
If you are using a Windows system there is no driver installation necessary, the onyxTOUCH will be recognised as a HID device. Just connect the mains adapter and USB cable like described above and the device will be shown in the device manager after a few seconds.

If it is not shown and the touch function doesn't work, please make sure that everything is connected correctly. Furthermore you can contact the support directly: info@solutions4interactivity.com

3. Calibration

Generally there is no calibration necessary. If you need to calibrate the onyxTOUCH you have to use a Windows system. Please go to the Windows calibration function under Tablet PC Settings (Figure 1)

Before calibrating - make sure your display is set to its native resolution - otherwise problems might occur on the display side causing the offset error.

Please Note that Windows 8 has a tool built-in. Search for "calibrate" in Windows and it will show up.
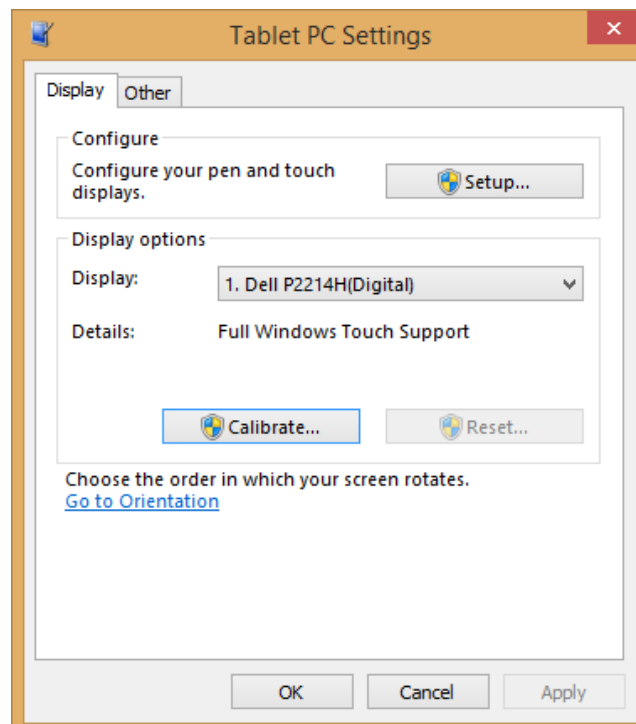

Figure 1 Tablet PC Settings

5. Technical data onyxTOUCH

Interface

Connection	USB 2.0 (Hi Speed)
	connector type A
Operating system	Windows 7 / 8 / 10, Linux, Android
	MAC OS (via 3rd party driver)
Software interface	HID, native Windows 7 / 8 / 10 touch commands

TOUCH

Technology	InGlass Touch Technology
Frame rate	100 FPS
Response time	15 - 25 ms
Touch points	detects up to 20 touch points simultaneously
Touch point accuracy	< 2 mm
Method	detects any kind of object with soft surface
	(Finger, gloved finger, grounded stylus,...)
Stylus Tip Size	min. 4 mm
Optional Features	10-bit pressure detection

Mechanical Data

Materials	black coated stainless steel, glass
Cover Front Glass Type	chemically strengthened soda lime
Cover Front Glass Thickness	3.2 mm single glass

Warranty	24 months, excluded: Protection glass,
	USB cable

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