Tanvastouch

DESKTOP DEVELOPMENT KIT

ENGINEERING SAMPLE



Create a Sensation!

Our 10.1" TanvasTouch Desktop Development Kit contains everything you need to create textures and haptic effects on touchscreens, trackpads and physical surfaces. Programming haptics is as simple – and versatile – as creating an image.

What's Included

Dedicated Support

5 hours of dedicated support from Tanvas experts to get your project up and running.

Software, Tools & Training

- > SDK and documentation
 - C# API
 - Hello Tanvas tutorial and C# application
 - CAPI
 - C++ API
 - Detailed API documentation
- > TanvasTouch Engine Developer Dashboard See where haptics are placed on the screen for any app running.
- > Viewer Use this haptic media viewer for rapid iteration and evaluation while designing haptic textures.
- > Intro App An introduction to TanvasTouch technology with several examples of what's possible with surface haptics.
- > Ongoing Updates New features continually added.
- > UI Reference Library Example C# application for an interactive haptic knob, with accompanying source code.



With TanvasTouch®, haptics are infinitely programmable, limited only by the imagination. The TanvasTouch SDK provides everything you need to build your vision. Haptics are designed using a simple image-based metaphor and integrated using intuitive APIs, then rendered in real time by the TanvasTouch Engine.

TOOVOS. TOUCH THE NEXT LEVEL

Preliminary Specs

Display (Typical)	Video: HDMI	Touch: USB (HID Compliant)
	Contrast: 800:1	Luminance: 350 cd/m2
	Viewing Angle: 85/85/85 (U/D/L/R)	
Touch Display (System)	Plug and Play: Yes	Operating Temperature : -10°C to 50°C
	UP/Down Scaling: Yes	Storage Temp: -30°C to 50°C
	Firmware Upgradeable: Yes	Power Consumption : 10 W (max)
Technology	Touch detection method : Tanvas Proprietary P-cap	Haptics: Electroadhesion
	Electronics: External PCB	
Mechanical	Surface Hardness: ≥ 9H	Sealability : Can be sealed to meet NEMA 6 and IP-65 standards
	Linear abrasion (1Kg weight, steel wool grade 0000): 3k cycles	
Environmental and Storage Conditions	Operating temperature : -10°C to +50°C, non-condensing humidity	
	Storage temperature : -30°C to +50°C, non-condensing humidity	
Optical	Surface finish : AR/AG; Anti smudge	Light transmission: 90 % ± 3% (ASTM 1003)
Touch		
Touch	Accuracy : ± 1 mm in the middle area of the panel	Multi-touch : Up to 10 fingers
Touch Performance	± 1 mm in the middle area of the panel	
	± 1 mm in the middle area of the panel	Up to 10 fingers
Performance	± 1 mm in the middle area of the panel Reporting r	Up to 10 fingers ate: 250 Hz
Performance Electrical Safety and	± 1 mm in the middle area of the panel Reporting r ESD : +/- 8kV air discharge to panel Planned certifications : UL/IEC 62368	Up to 10 fingers ate: 250 Hz EMC: FCC Part 15b, CE Touch current:
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Performance Electrical Safety and Regulations Interface	± 1 mm in the middle area of the panel Reporting r ESD: +/- 8kV air discharge to panel Planned certifications: UL/IEC 62368 Data communic Operating system: Windows* Languages: C, C++, C#* Sup	Up to 10 fingers ate: 250 Hz EMC: FCC Part 15b, CE Touch current: < 25uA RMS eation: USB/I2C Supported hardware: X86 (64-bit)* *Multi-platform Support: Contact us about support for

About Tanvas

Tanvas is pioneering the next generation of multi-touch haptic technology. Despite advances in graphics, sound and vibration, today's touchscreen is still a lifeless window to the digital world. TanvasTouch surface haptics add a new dimension of interaction by bringing software-defined textures and feelings to physical surfaces. TanvasTouch can be built into any touch-enabled product across many applications including automotive, retail, consumer electronics, visually impaired and custom displays. The company was spun out of Northwestern University and is headquartered in Chicago.

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