ENGINEERING SAMPLE

Feel Like Prototyping?

The 10.1" TanvasTouch Desktop Development Kit contains everything you need to program textures and effects on smooth touchscreens, trackpads and soft surfaces.

BUY NOW at tanvas.co

The next generation of multi-touch technology adds a new level of dimension and depth to touch surfaces. Software-defined haptics enable an unlimited range of effects that can be felt with the swipe of a finger. To learn more about TanvasTouch technology, explore documentation and see examples, visit tanvas.co

WHAT'S INCLUDED

Dedicated Support
- 5 hours of dedicated support from Tanvas experts – Work directly with haptic experts to get your project up and running.

Software, Tools & Training
- **SDK and documentation**
  - C# API
  - Hello Tanvas tutorial and C# application
  - C API
  - C++ API
  - Detailed API documentation

- **TanvasTouch Engine Developer Dashboard** - Enables you to see where haptics are placed on the screen for any app currently running.
- **Viewer** - A haptic media viewer for rapid iteration and evaluation while designing haptic textures.
- **Intro App** - Introduction to TanvasTouch technology with a handful of examples showing what's possible with surface haptics.
- **Ongoing Updates** - New features continually added.
- **UI Reference Library** - Example C# application implementing an interactive haptic knob, with accompanying source code.
- **Educational Materials** - Increase your understanding of surface haptics and how to program textures and effects.
- **Developer User License**

Preliminary Specs

Display (Typical)	Video: HDMI	Touch: USB (HID Compliant)
	Contrast: 800:1	Luminance: 350 cd/m2
	Viewing Angle: 85/85/85/85 (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 Performance	Accuracy: ± 1 mm in the middle area of the panel	Multi-touch: Up to 10 fingers
	Reporting rate: 250 Hz	
Electrical	ESD: +/- 8kV air discharge to panel	EMC: FCC Part 15b, CE
Safety and Regulations	Planned certifications: UL/IEC 62368	Touch current: < 25uA RMS
Interface	Data communication: USB/I2C	
Software	Operating system: Windows, MacOS, Linux Android, IOS (iPadOS/WatchOS)	Supported hardware: X86 (64-bit), ARM
	Languages: C, C++, C#, Python, JavaScript, Java/Kotlin, Ruby, Swift	Support: Robust and active developer portal

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.

Tanvas.

Touch the next level
https://tanvas.co