



TOUCH Development Kit (UHDK5)

Ultrahaptics' patented algorithms control ultrasound waves to create haptic sensations in mid-air – shapes and objects that cannot be seen, but can be felt. No controllers or wearables are needed: the “virtual touch” technology uses ultrasonic transducers to project sensations directly onto the user's hands.

With the TOUCH Development Kit you can create virtual buttons, sliders and dials that users can feel and operate, or extend gesture control by incorporating tactile sensations that confirm instructions have been recognised and accepted. Interactions become natural and intuitive, improving safety and reducing task completion time and user effort, while interfaces become more secure and hygienic because they no longer rely on users touching physical surfaces.

Experiment with a library of sensation templates included in the Sensation Editor library, configure them to your requirements or develop your own using the software suite provided.

Including a transducer array board, Leap Motion® camera module and software suite, the UHDK5 TOUCH Development Kit has everything you need to evaluate and experiment with mid-air haptics for your HMI/UI control interfaces and interactions.



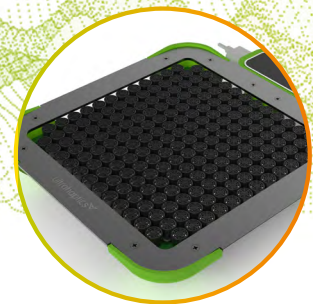
Plug and play

Quick and easy to set up and create tactile, mid-air sensations within a few minutes of unboxing.



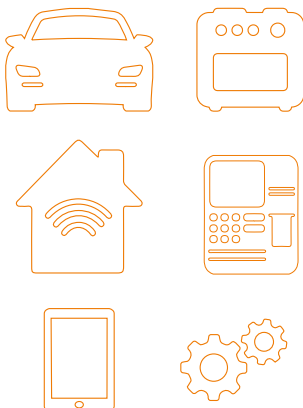
Create unique sensations

Customise your own sensations with the easy-to-use Sensation Editor.



Evaluate and experiment

Use the included, pre-calibrated Leap Motion® camera module or work with any gesture recognition software that gives 3D coordinates.



One kit — endless possibilities, in multiple applications

Automotive: Mid-air control of infotainment systems and dashboard functions

Appliances: Safe and hygienic control from a distance, virtual safety barriers

Smart home: Enhances gesture based control of devices

Kiosks: Augments touchless self-service and point of sale systems

Consumer: Integrated and seamless control of consumer products

Industrial: Enhances HMI, advancing health and safety in business applications and public areas

What's included

- Hardware platform: 14x14 transducer array, control board (ARM® and FPGA architecture) and frame structure
- Leap Motion® camera module and USB cable
- Software Development Kit with C# and C++ API and Unity® integration
- Sensation Editor tool assists with customisation and development of sensations
- Demonstration suite to help get you started
- Multi-region (US, UK and EU) power supply
- Access to software development kit, tools and examples at developer.ultrahaptics.com

Key performance

- Up to 4 focal points size: 8.6mm diameter
- Up to 400Hz haptic refresh rate
- Dimensions: H29mm x W186mm x D221mm
- Interaction zone: approx. 50-500mm, $\pm 30^\circ$ cone centred around top of transducer board

Optional accessories

24x8 rectangular transducer array – Replace the standard 14x14 board for alternative form factor requirements.

Cover material kit – Ultrahaptics recommends a range of cover materials for different acoustic, physical and visual characteristics. Evaluate these with your transducer array.

Where to buy

The TOUCH Development Kit is available to buy from the following distributors:

EBV – www.ebv.com/ultrahaptics

Arrow – <https://www.arrow.com/en/manufacturers/ultrahaptics>

Cornes – ctl-comm@cornes.jp (email)

Product name	Product code
TOUCH Development Kit	UHDK5
24x8 rectangular transducer array	UHDK5-AA1
Cover material kit	UHDK5-CM1

