



3Di

Stereo Hand Tracking Camera

The Ultraleap 3Di Stereo Hand Tracking Camera is designed to be connected to an interactive screen. Together with Ultraleap's world-leading software, it transforms displays into touchless, three-dimensional, immersive surfaces.

Ultraleap 3Di allows easy integration of Ultraleap hand tracking in a form factor ruggedized for use in permanent settings – such as self-serve kiosks, digital out-of-home installations, interactive displays in retail, museums, and theme parks, or medical/industrial uses.

Ultraleap TouchFree

Ultraleap 3Di is part of Ultraleap's TouchFree end-to-end solution – camera hardware, reliable hand tracking software, and developer tooling.

The camera uses Ultraleap's patented stereo infrared technology and world-leading Gemini hand tracking software. It is robust even in challenging lighting conditions, and reliably tracks a wide variety of hand sizes and shapes.

Ultraleap also provides a suite of developer tools for development of touchless experiences:

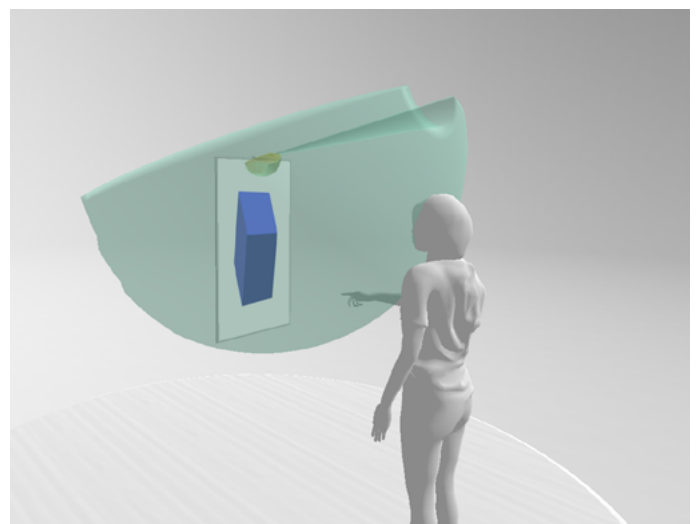
- **TouchFree Application:**
Detects a user's hand in mid-air and converts it to an on-screen cursor. Retrofit existing touchscreen interfaces with touchless gesture control or evaluate using your desktop monitor.
- **TouchFree Tooling for Web or Unity:**
Add touchless cursor control into kiosk applications in minutes, and have total control over how your application reacts to users' hand movements.



Front of Ultraleap 3Di.



Reverse of Ultraleap 3Di.



Simulation of Ultraleap 3Di tracking range when connected above a 42" screen.

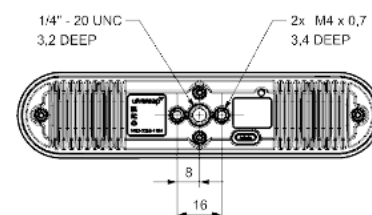
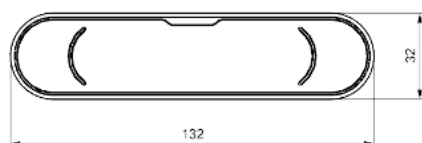
Specifications

Power:	5 VDC via USB connector 500 mA max 250 mA typical
Data connection:	USB 2.0 via micro USB type-B connector
Tracking range and field of view:	Depth of between 10 cm (4") to 75 cm (29.5") preferred, up to 1 m (39") maximum; 170°×170° typical field of view (160°×160° minimum). Ultraleap 3Di can provide touchscreen emulation for screens up to 42" (portrait or landscape). Larger screens can also be controlled through interaction at a distance.
Camera framerate:	90 fps
Operating wavelength:	850 nm. Provides its own illumination via two IR LEDs spaced on either side of the cameras.
Construction:	Aluminium and scratch-resistant glass.
Temperature rating:	0°C to 40°C (32°F to 104°F)
Ingress protection:	IP54 when mounted using Panel Mount Kit (available from Ultraleap).
Certification:	UKCA CE FCC
Minimum system requirements:	Windows® 10, 64-bit, Intel® i3 processor, 5th Gen (supports AVX instructions), 2GB RAM, USB 2.0. BrightSign XT1144, mains power, USB 2.0
Software:	Downloadable from https://www.developer.ultraleap.com/touchfree

Ultraleap reserves the right to update or modify this specification without notice.

Device dimensions

All dimensions in mm



Mounting

Ultraleap 3Di is designed to be integrated directly into permanent installations. Provided with the camera in the product box is a Multi Mount. This mount holds the camera to the kiosk or screen and provides optimum camera placement. It can also sit on any horizontal surface to support desktop evaluation or deployments.



Multi Mount and Ultraleap 3Di.

Detailed guidelines on camera placement, mounting options, TouchFree software setup and designing for touchless experiences can be found on <https://docs.ultraleap.com/touchfree-user-manual/>.

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