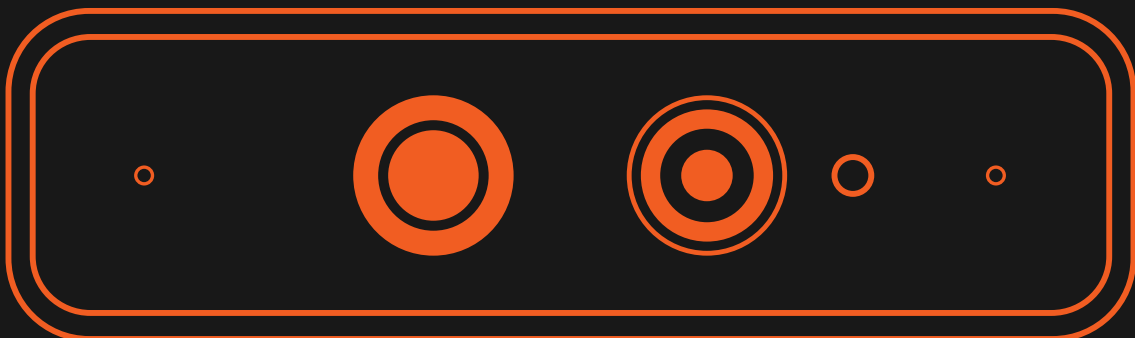


DS325 Datasheet

Close interaction time-of-flight 3D depth-sensing camera



DS325 Datasheet

Close interaction time-of-flight 3D depth-sensing camera



DS325 produced by SoftKinetic Korea

Key Features & Benefits

- / **Safety:** Diffused laser illumination
- / **Resistance:** For indoor use
- / **Accurate:** Detailed sensitivity
- / **Economic:** Low power consumption
- / **Reliable:** Confidence measure for each pixel
- / **Fully Featured:** Z cam + RGB + microphones
- / **Customizable:** Technology for a variety of different camera configurations and formats
- / **Standardized CMOS:** Powerful and low cost sensor technology

What is DepthSense?

DepthSense® is SoftKinetic's patented time-of-flight depth sensor. The sensor measures the round-trip-time it takes for infrared light emitted from the DepthSense 325 (DS325) camera to return; known as time-of-flight (ToF). DepthSense transforms the ToF positional data into real-time 3D RGB images, as well as greyscale confidence and depth map images. At 60 frames per second (fps) refresh rate, DepthSense delivers fast, low latency data transfer to enable the best user experience with virtually no lag.

About DS325

The DS325 delivers real-time 3D distance data for close interaction. The most accurate depth camera on the market, the DS325 provides depth data for software analysis from as close as 15cm, at up to 60fps. It combines our patented ToF DepthSense sensor, an HD RGB sensor, and two microphones. With only a single USB plug, connecting a DS325 is simple, fast and portable. Combined with our powerful middleware iisu, the DS325 enables a new world of unique experiences accessible through a natural user interface. The DS325 is available in scalable quantities for development and commercial applications.

End-to-end Solution

SoftKinetic® is the leading end-to-end provider of natural gesture recognition solutions. From 3D CMOS ToF sensors and cameras (**DepthSense®**), to natural gesture recognition middleware and tools (**iisu®**), as well as games and applications from **SoftKinetic Studios**. Our vision is to give everyone the freedom to control, explore and enjoy the entire digital world through the most natural and intuitive user interfaces and machine interactions.

/ Close Interaction

Innovative User Experience



Immersive natural user interaction using no-touch precise 2 hand-10 finger tracking

PC & Laptop Experience



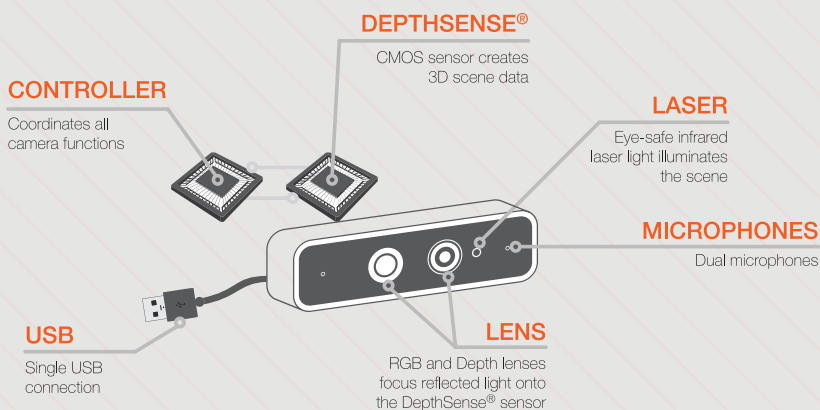
Control any application without touching the screen or any external input device

Development Experience



Create new experiences or convert existing apps to use natural gesture recognition with iisu

/ Technical Description



Product Specifications

- / **Technology:** Patented CAPD Time-of-Flight
- / **Depth Pixel Count:** 320 x 240
- / **Depth Field of View:** 74° x 58° x 87° (H x V x D)
- / **Resolution:** 320 x 240 (QVGA)
- / **Frame Rate:** 25 fps - 30 fps | QVGA and QQVGA
50 fps - 60 fps | QVGA and QQVGA
- / **Nominal Operating Range:** 0.15 m - 1.0 m
- / **Depth Resolution:** < 1.4 cm @ 1 m
- / **Illumination Type:** Diffused Laser
- / **Ambient Light:** Typical Indoor
- / **RGB Pixel Count:** HD 720p
- / **RGB Field of View:** 63.2° x 49.3° x 75.2° (H x V x D)
- / **Microphones:** 2
- / **Accelerometer:** 3 axis
- / **Connectivity:** Single USB
- / **Operating Temperature:** 10°C to 40°C
- / **Power:** <= 2.5W
- / **Size:** 10.5 cm x 3.0 cm x 2.3 cm

