



### Key Features & Benefits

- ▶ **Safe:** Diffused laser illumination
- ▶ **Accurate:** Detailed sensitivity
- ▶ **Economic:** Low power consumption
- ▶ **Reliable:** Confidence measure for each pixel
- ▶ **Embedded:** Small module for All-in-One PCs and monitors
- ▶ **Customizable:** Technology for a variety of different camera configurations and formats
- ▶ **Standardized CMOS:** Powerful and low cost sensor technology
- ▶ **For indoor use**

### What is DepthSense?

DepthSense is SoftKinetic's patented time-of-flight depth sensor. The sensor measures the time it takes for infrared light emitted from the DepthSense 525 (DS525) module to return. This is the 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 a refresh rate of up to 60 frames per second (fps), DepthSense delivers fast, low latency data transfer to create the best user experience with virtually no lag.

### DS525

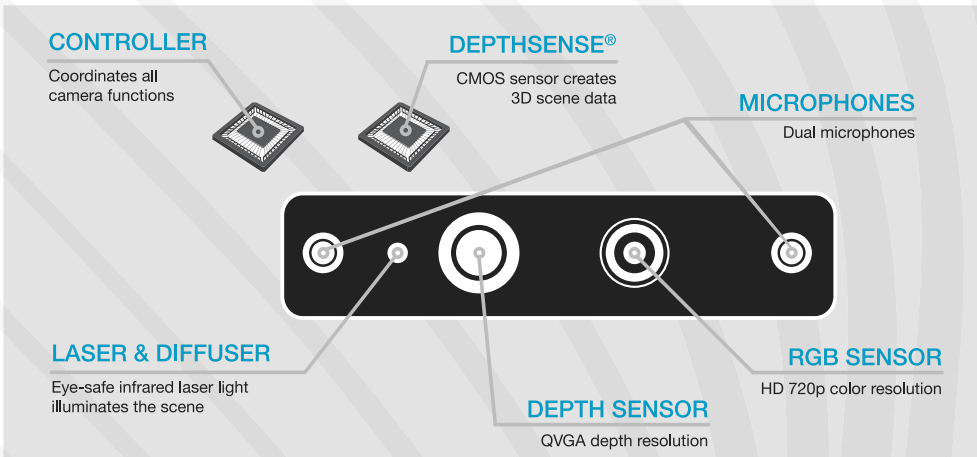
The DS525 delivers real time 3D distance data for close interaction. The best performing module on the market, the DS525 provides depth data for software analysis from as close as 15cm, at up to 60fps. Working with our powerful middleware iisu, this RGBZ module enables a new world of unique experiences that are accessible through a natural user interface. The DS525 can be embedded in All-in-One PCs and monitors.

### End-to-End Solution

SoftKinetic is the leading provider of end-to-end natural gesture recognition solutions. These include 3D CMOS ToF sensors, modules and cameras produced by SoftKinetic Korea (**DepthSense**®), natural gesture recognition middleware (**iisu**®), and games and applications from **SoftKinetic Studios**.

We want 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.

## / Specifications



### Technical Specifications

- ▶ **Technology:** DepthSense®
- ▶ **Depth field of view:** 74° x 58° x 87° (H x V x D)
- ▶ **Depth resolution:** 320 x 240 | QVGA
- ▶ **Frame rate:** 25 fps – 30 fps | QVGA  
50 fps – 60 fps | QVGA
- ▶ **Nominal operating range:** 0.15m – 1.0m
- ▶ **Depth noise:** < 1.4cm at 1m (50% reflectivity)
- ▶ **Illumination type:** Diffused laser
- ▶ **Ambient light:** Typical indoor
- ▶ **RGB resolution:** HD 720p
- ▶ **RGB field of view:** 63.2° x 49.3° x 75.2° (H x V x D)
- ▶ **Accelerometer:** 3 axis
- ▶ **Microphones:** 2
- ▶ **Operating temperature:** 10°C to 40°C
- ▶ **Power:** < 2.5W
- ▶ **Size:** 95mm (W) x 22mm (H) x 20mm (D)

## / Close Interaction

### Innovative User Experience



Immersive natural user interaction using no-touch precise two-hand/ten-finger tracking.

### PC & Monitor Experience



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

### Development Experience



Use iisu to develop new experiences or convert existing applications to use natural gesture recognition.