DS536A Datasheet
Close Interaction Time-of-Flight 3D Depth-Sensing Camera

Key Features & Benefits
- Safe: Diffused laser illumination
- Accurate: Detailed sensitivity
- Economical: Low power consumption
- Reliable: Confidence measure for each pixel
- Embedded: Ultra-small module for laptops and tablets
- 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 536 (DS536) module to return – the time-of-flight (ToF) – and transforms the ToF positional data into real-time, 3D 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.

About DS536
The DS536A is an embedded 3D Time-of-Flight camera module for indoor applications in mobile devices, wearable devices, robotics and home appliances. The DS536A module combines SoftKinetic’s time-of-flight sensor and latest illumination technologies to achieve even higher levels of integration.

The DS536A enables a new world of unique experiences such as gesture recognition, computational imaging & 3D reconstruction.

End-to-End Solution
SoftKinetic is the leading provider of end-to-end depth-sensing and natural gesture recognition solutions. These include 3D CMOS ToF sensors, modules and cameras (DepthSense®), and natural gesture recognition middleware.

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
- Technology: DepthSense®
- Depth field of view: 74° x 58° x 87° (H x V x D)
- Frame rate: 5 fps – 60 fps
- Nominal operating range: 0.10 m – 5.0 m
- Illumination type: Diffused laser
- Intelligent Power Management
- Ambient light: Typical indoor
- Operating temperature: 10°C to 40°C
- Size: 79mm (W) x 12mm (H) x 15mm (D)

Design and specifications are subject to change without notice as the DS536A is developed for production.

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