

PRODUCT BRIEF

INTEL® REALSENSE™ DEPTH CAMERA D435

Powerful, Full-featured Depth Camera

Combined Solution for Development & Productization

By introducing the Intel® RealSense™ Depth Camera D435 into the Intel® RealSense™ product lineup, Intel continues our commitment to developing cutting-edge new vision sensing products. Placing an Intel module and vision processor into a small form factor results in a combined solution ideal for development or productization. Lightweight, powerful, and low-cost, this complete package pairs with customizable software to enable the development of next-generation sensing solutions and devices that can understand and interact with their surroundings.

Ideal for Low Light and Wide Field of View

The D435 as a wide field of view solution using global shutter sensors. The combination of a wide field of view and global shutter sensor on the D435 make it the preferred solution for applications such as robotic navigation and object recognition. The wider field of view allows a single camera to cover more area resulting in less "blind spots". The global shutter sensors provide great low-light sensitivity allowing robots to navigate spaces with the lights off.

Complete Suite for Simple Integration

The Intel® RealSense™ Camera D435 is part of the Intel® RealSense™ 400 Series of cameras, a lineup that takes Intel's latest depth-sensing hardware and software offerings and puts them into easy-to-integrate, packaged products. Perfect for developers, makers, and innovators looking to bring depth-sensing vision to devices, Intel® RealSense™ 400 Series Cameras offer simple out-of-the-box integration and enable a whole new generation of intelligent vision-equipped devices.

D435



FEATURES

Use Environment: Indoor/Outdoor

Depth Technology: Active IR Stereo

Image Sensor Technology: Global Shutter; 3um x 3um pixel size

Depth Field of View (FOV)—(Horizontal x Vertical) for HD 16:9: 85.2° x 58° (+/- 3°)

Depth Output Resolution & Frame Rate: Up to 1280 x 720 active stereo depth resolution. Up to 90fps

Minimum Depth Distance (Min-Z): 0.105m

Maximum Range: 10m+. Varies depending on performance accuracy, scene and light conditions

RGB Resolution: Up to 1920 x 1080 resolution

RGB FOV (H x V x D): 69.4 x 42.5 x 77 (+/- 3°)

MAJOR COMPONENTS

Camera Module: Intel® RealSense™ Module D430 + RGB Camera

Vision Processor Board: Intel® RealSense™ Vision

Processor D4

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PHYSICAL

Form Factor: Camera Peripheral

Connectors: USB 3 Type-C

Length x Depth x Height: 90mm x 25mm x 25mm