

PRODUCT BRIEF

INTEL® REALSENSE™ DEPTH CAMERA D415

Powerful, Full-featured Depth Camera

Ideal for Development & Productization

With the addition of the Intel® RealSense™ Depth Camera D415 to the Intel® RealSense™ product lineup, Intel maintains a track record of bringing exciting new vision sensing products to market. This camera puts an Intel module and vision processor into a small form factor ideal for development and productization. Lightweight, powerful, and low-cost, it pairs with customizable software to enable a one-stop shop for assembly and creation of a new generation of sensing solutions and devices that are better able understand and interact with their surroundings.

Ideal for Precise Measurement

The D415 has a narrow field of view solution using rolling shutter sensors. The narrower field results in higher depth resolution when minimum object size and more precise measurements are required. The rolling shutter sensors and smaller lenses allow for a lower cost, yet highly capable depth camera.

Complete Suite for Simple Integration

The Intel® RealSense™ Camera D415 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. Intel's complete suite of solutions includes vision processors, turnkey modules, cameras, and SDKs and computer vision libraries. 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.

D415



FEATURES

Use Environment: Indoor/Outdoor

Depth Technology: Active IR Stereo

Image Sensor Technology: Rolling Shutter; 1.4um x 1.4 um pixel size

Depth Field of View (FOV)—(Horizontal x Vertical) for HD 16:9: 63.4° x 40.4° (+/- 3°)

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

Minimum Depth Distance (Min-Z): 0.16m

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

RGB Resolution: Up to 1920x1080 resolution

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

MAJOR COMPONENTS

Camera Module: Intel® RealSense™ Module D415

Vision Processor Board: Intel® RealSense™ Vision Processor D4

PHYSICAL

Form Factor: Camera Peripheral

Connectors: USB 3 Type-C

Length x Depth x Height: 99mm x 20mm x 23mm