



INTEL® REALSENSE™ STEREO DEPTH CAMERAS

D400 Series – Computer Vision in Robotics



Intel® RealSense™ D400 series features high-resolution imaging and depth sensing technology. The lightweight, low power and easy-to-use depth cameras give robots the ability to navigate landscapes, avoid obstacles and recognize objects, people and more. Intel® RealSense™ D400 depth cameras provide a full range of computer vision capabilities especially targeted for robotics developers. For high-precision applications, choose the D415 with rolling shutter. If your application is fast moving or outdoors, select either the D435 or D435i camera which feature a global shutter. For longer range applications, the D455 features wide field of view and global shutter on the depth and RGB sensors.

Key Features

- Active Infrared (IR) Stereo Depth Technology
- Rolling Shutter / Global Shutter Technology
- Standard / wide field of view (FOV)
- Suitable for indoor and outdoor environments

Key Benefits

- Versatile, reliable, accurate
- Low power consumption & platform agnostic
- Supported by Intel's Open Source SDKs
- Extended possibilities for robotics developers

Key Applications

- Articulated robots, i.e. robotic arms
- Autonomous Mobile Robots (AMRs)
- Humanoid robots
- Collision Avoidance / Object Detection / Volumetric Measurement / SLAM Tracking



D435



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D455



FOV 87° × 58°



Ideal Range 0.6 m to 6 m



Global Shutter

D435i

IMU



FOV 87° × 58°



Ideal Range 0.3 m to 3 m



Global Shutter

D435



FOV 87° × 58°



Ideal Range 0.3 m to 3 m



Global Shutter

D415



FOV 65° × 40°



Ideal Range 0.5 m to 3 m



Rolling Shutter

