

PRODUCT BRIEF

INTEL® REALSENSE™ DEPTH MODULE D400 SERIES LINEUP

The Intel® RealSense™ Depth Module D400 Series provides a turnkey solution for rapid product development and integration for VR, robotics, and any market where depth matters. Choose the module with the best combination of power consumption, field of view, and shutter type, to optimize depth vision integration into your product.

FEATURES	D400 Module	D410 Module	D415 Module	D420 Module	D430 Module
Use Environment:	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor
Depth Technology	Passive Stereo	Active IR Stereo	Active IR Stereo	Passive Stereo	Active IR Stereo
Depth FOV (Horizontal × Vertical × Diagonal)	69.4° × 42.5° × 77°	69.4° × 42.5° × 77°	69.4° × 42.5° × 77°	91.2° × 65.5° × 100.6°	91.2° × 65.5° × 100.6°
Depth Stream Output Resolution	Up to 1280x720	Up to 1280x720	Up to 1280x720	Up to 1280x720	Up to 1280x720
Depth Stream Output Frame Rate	Up to 90fps	Up to 90fps	Up to 90fps	Up to 90fps	Up to 90fps
Minimum Depth Distance (Min-Z)	0.3m	0.3m	0.3m	0.2m	0.2m
Infrared Projector Power	N/A	Configurable up to 440mW peak	Configurable up to 440mW peak	N/A	Configurable up to 425mW peak
Image Sensor Type	Rolling Shutter	Rolling Shutter	Rolling Shutter	Global Shutter	Global Shutter
Maximum Range	10m+; Varies depending on performance accuracy, scene and light conditions	10m+; Varies depending on performance accuracy, scene and light conditions	10m+; Varies depending on performance accuracy, scene and light conditions	10m+; Varies depending on performance accuracy, scene and light conditions	10m+; Varies depending on performance accuracy, scene and light conditions
RGB Sensor Max Resolution & Max Frame Rate	None	None	1920x1080 Up to 60fps	None	None
RGB Sensor FOV (Horizontal × Vertical × Diagonal)	N/A	N/A	69.4° × 42.5° × 77°	N/A	N/A
Module Dimension (Length × Depth × Height)	74.7mm × 10mm × 4.7mm	74.7mm × 10mm × 4.7mm	83.7mm × 10mm × 4.7mm	70.7mm × 14mm × 10.53mm	70.7mm × 14mm × 10.53mm
I/O	50-pin connector to D4 Vision Processor card, high-speed MIPI to D4 Vision Processor	50-pin connector to D4 Vision Processor card, high-speed MIPI to D4 Vision Processor	50-pin connector to D4 Vision Processor card, high-speed MIPI to D4 Vision Processor	50-pin connector to D4 Vision Processor card, high-speed MIPI to D4 Vision Processor	50-pin connector to D4 Vision Processor card, high-speed MIPI to D4 Vision Processor