FRAMOS INDUSTRIAL DEPTH CAMERA D435E

Built with INTEL® RealSense™ Technology:
Industrial Grade 3D Vision for Real-Time Positioning and Tracking

Depth Technology and 3D Imaging is crucial in Human Machine Interaction (HMI) and real-time gesture detection. Industrial automation, sensing machines, autonomous cars and high-precision inspection tasks work based on 3D technology.

The Intel® RealSense™ Suite provides 3D cameras and modules with integrated Depth Technology, off-the-shelf, making it is easy to handle, affordable, and can accelerate next-level vision development.

To leverage the advantages of this technology in industrial vision and in rougher environments, FRAMOS Engineering has developed an industrial grade version of the Intel®'s RealSense™ Suite.

- **Plug & Play Solution for Industrial**
- **Dust Resistant Applications**
- **Water Proof IP66 Standard**

FRAMOS' INDUSTRIALIZED INTEL REALSENSE

FRAMOS' industrial grade camera solution provides GigE connection for automation, robotics and other industrial vision applications. The industrialized Intel® RealSense™ portfolio includes three features to build 3D vision solutions in industrial environments.

- Additional RGB camera to D430 depth module
- GigE Vision interface
- Industrial IP66 rated housing

POSSIBLE INDUSTRIAL APPLICATIONS
- Robotic Pick & Place Systems
- Automatic Guided Vehicles
- Drones, Medical & Retail Surveillance

RGB CAMERA FOR D430
FRAMOS is adding an RGB camera module to the D430 depth module with similar characteristics and performance as the one used in the D435 depth camera.

- 2MP Rolling Shutter RGB module
- 77° lens FOV on the horizontal
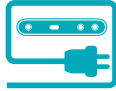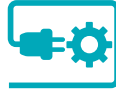- Flexible interposer between the depth module and the D4 processor board

M12 connector

M8 connector

D430 module   **RGB module**

Why to choose the D435e?

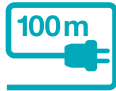**Applicability to industrial environments**

Plug-and-play exchange with Intel cameras

Plug-and-play with any GigE Vision compliant software

Secure connections with Industrial grade M12 Ethernet

Long cable length possible with up to 100m

Industrial grade IP66 which is water and dust-proof

ETHERNET FOR D4 PROCESSOR BOARD

Providing Ethernet to Intel's RealSense Technology is key to connect 3D vision components to industrial applications that require longer cable lengths and more robust connections. FRAMOS redesigned the Intel RealSense D4 processing board to meet industrial interface requirements.
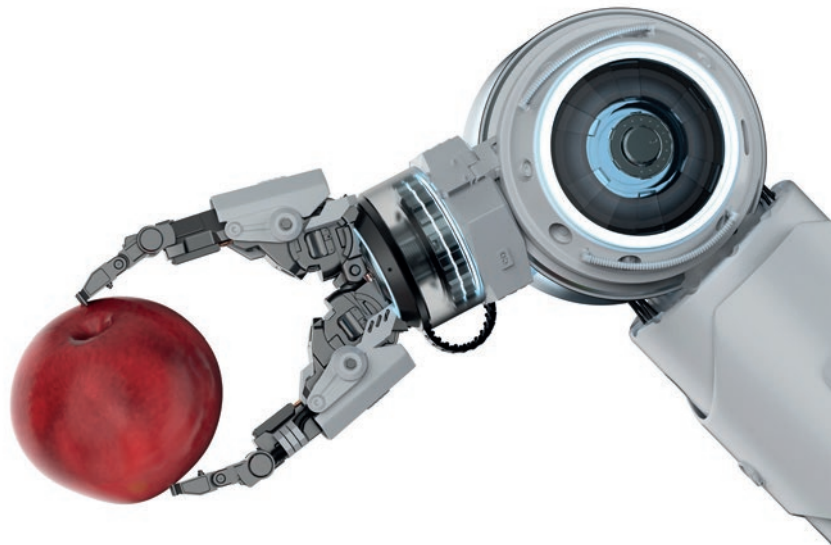
INDUSTRIAL HOUSING & TEMPERATURE SPECS

The redesigned Intel® RealSense™ ruggedized enclosure is made for demanding industrial environments, offering 12V and 24V power connection, higher operating temperatures and IP66 compliant protection.

- 24V power connector with separate ethernet connector supporting PoE, and GPIO
- Operating Temperature 0°C to +45°C
- IP66 protection class for water and dust
- Mounting holes for robotic applications

INDUSTRIAL GRADE CAMERA'S FEATURES

- GigE interface with GigE Vision hardware and GigE compliant software
- IP66 Enclosure
- Locking connectors
- Ethernet, power and GPIO connections
- Small, rugged design
- Windows and Linux support
- Compatible with both the Intel RealSense SDK and any GigE Vision compliant software
- Long cable lengths, up to 100m
- POE and external 12V / 24V power supported
- Mounting holes for robotic applications

With our broad industry and custom project experience, FRAMOS serves our clients as a technical consultant, development partner and external supplier enabling our customers to develop cutting-edge imaging solutions while shortening their times-to-market.

Please contact us if you have any additional questions about this technology or how best to implement in your use case. FRAMOS imaging experts are available 24/7 to assist in your design and answer any questions you may have. Please contact your local representative or via email: info@ framos.com