



High-precision 3D measurements
with consistent reproducibility



Reliable shape detection
on complex surfaces



Consistent measurement accuracy
for every object



Designed for inline applications
with fast cycle times



Cloud-X

3D Pointcloud technology
for enhanced Robot Guidance



ISRA
VISION

Part of Atlas Copco Group

ABOUT Cloud-X

Cloud-X is a robust and versatile family of 3D point cloud sensors designed to automate a wide range of industrial applications. Built for reliable performance in dynamic and changing environments, Cloud-X adapts to different working distances, object and material types, and feature sizes, making it suitable for diverse use cases.

Cloud-X ensures consistent, reproducible results while increasing efficiency across production lines. The sensors integrate seamlessly into existing workflows, enabling fast deployment without major disruptions.

Combined with ARVY.Guide, our advanced platform for robot guidance, Cloud-X becomes the most flexible solution for scalable automation. It empowers manufacturers to optimize processes, boost productivity, and maintain high-quality standards with precision and reliability.

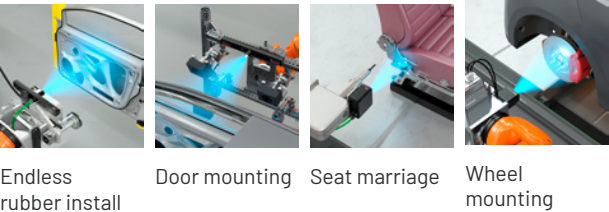
Technical Data		
Sensor Type	Cloud- X P-Series	Cloud-X E-Series
		
Sensor models	450-P 800-P 1500-P	200-E 350-E 975-E 1850-E
Measurement distance	300 – 3000 mm	180 mm – 3000 mm
Measurement distance (Focus)	450 – 1500 mm	200 mm – 1850 mm
Measurement volume (Focus plane)	515 x 401 mm – 1680 x 1343 mm	84 x 88 mm 1176 x 1604 mmm
Z-Accuracy (Focus plane)	0,26 mm – 2,00 mm	0,13 mm – 0,4mm
Power supply	DC 24V / PoE	24 V DC / PoE++
Vibration resistance	Frequency sweep from 10 Hz to 500 Hz	Up to 30 – 500 Hz 10 G (sine)
Shock resistance	≤10 G	80 g, 1.9 ms / 25 G, 6 ms (half sine)
Projector	Aluminum, IP65	Aluminum, IP65 / 67
Operating Temperature	0 – 45 °C	0 – 40 °C

KEY FEATURES

- Efficient object localization and feature detection simplifies integration and accelerates setup
- Accurate 3D shape matching for various holes, edges, studs and geometries, even on dark or textured surfaces
- Robust against environmental influences - resistant to temperature changes and vibrations
- Full 6DoF detection - captures position and orientation in X, Y, Z plus rotation
- AI-enhanced robot guidance enables intelligent, adaptive handling and positioning

APPLICATIONS

- Part localization
- Part marriage
- Module mounting
- Wheel mounting
- De-Racking
- Door Line
- ... and many more



ARVY.GUIDE FEATURES

- Cutting edge algorithm tool box for highest flexibility
- Teach from Scan or CAD
- Intuitive user interface for fast integration
- Advanced error handling