

Helix_{evo}

3D Scanning Sensor

Optimized for In-Line Measurement

ISRA
VISION
perceptron

3D Scanning Sensor Optimized for In-Line Measurement

The Helix_{evo} sensor family utilizes the latest optical and laser technologies to provide pristine measurement data on the most demanding materials, such as machined steel, aluminum, carbon fiber, sheet metal, and painted surfaces. With its IP67 rating (dust tight, immune to temporary water immersion), the rugged sensor housing offers reliable protection against the adverse conditions of an industrial production line.

Helix_{evo} is built for the plant floor.



Absolute-Accurate Robotic Solutions for the Production Environment

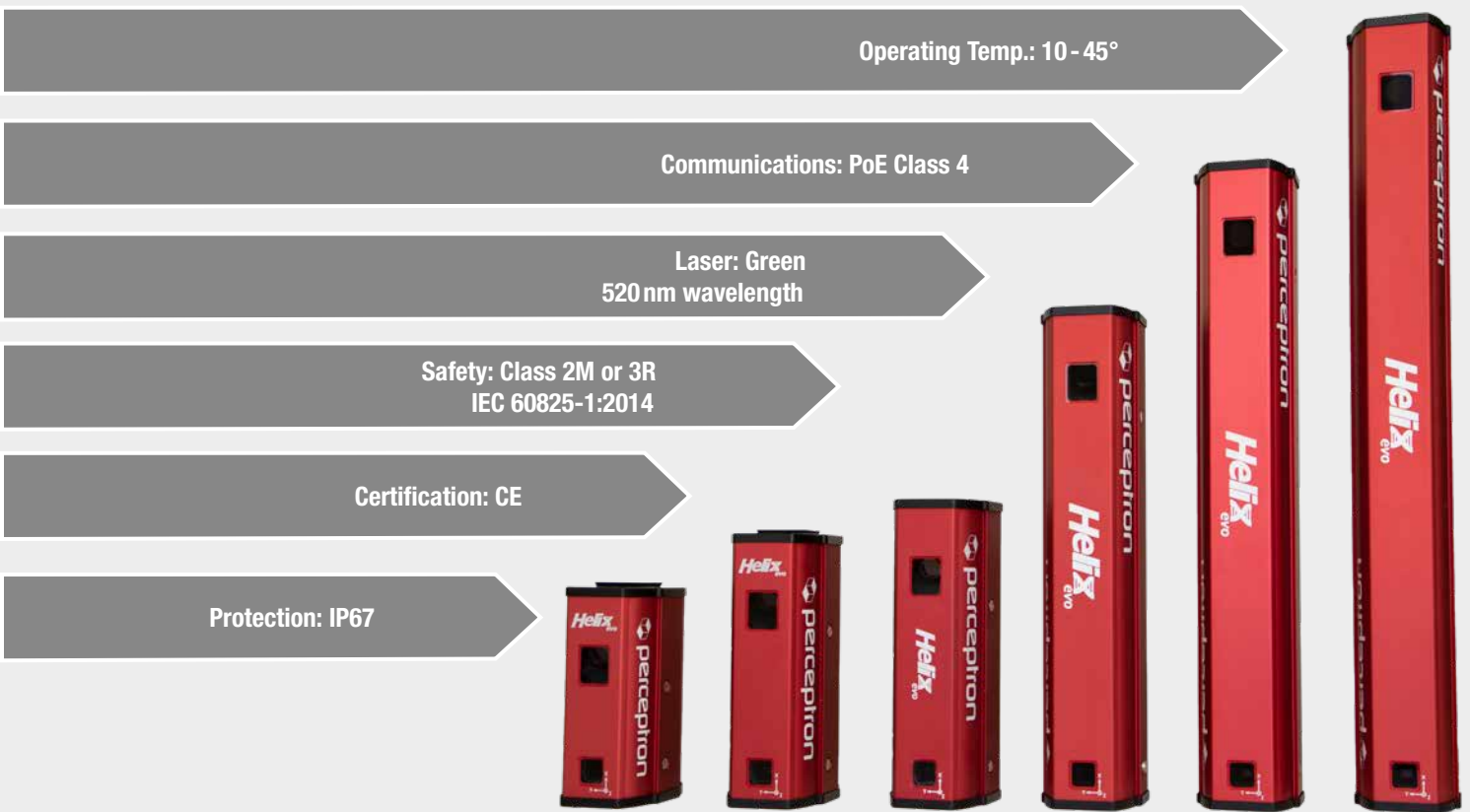
Combining a Helix_{evo} sensor with Perceptron's innovative AccuSite tracking technology eliminates all the robot's mechanical drift and temperature influences from the measurement results. AccuSite achieves a system-level accuracy of better than 0.150 mm, validated per the DIN/ISO 10360-8 standard.



Key features and benefits

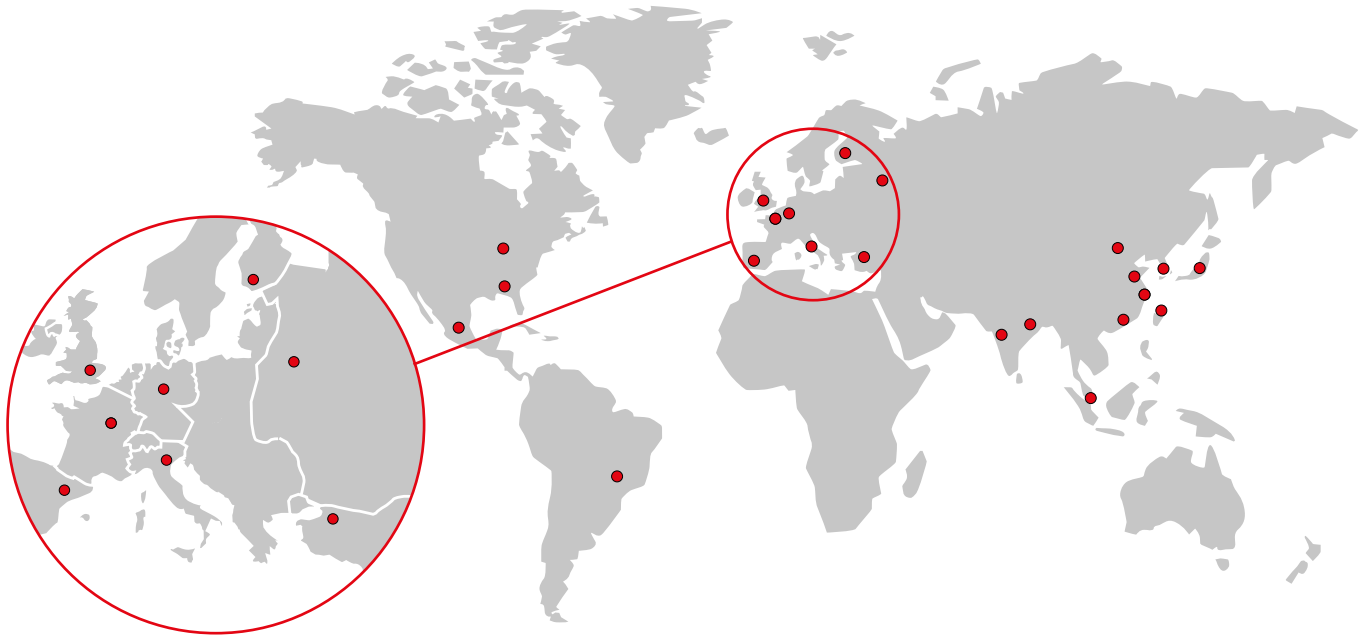
- By pairing a high resolution camera with a green laser, Perceptron has achieved an unparalleled signal-to-noise ratio for its Helix_{evo} sensor family that is superior to other sensors on the market. The very thin laser line enables reliable measurement of threaded holes, studs, hemmed edges, and other complex features.
- Available in multiple standoffs, 200 mm to 1400 mm, for application and layout flexibility.
- Robot or structure mounting options to fit cycle time and measurement requirements.
- Single cable connectivity via Power over Ethernet (PoE) simplifies robot dress package setup and system maintenance.
- Optimized acquisition speed and ability to capture multiple features from one position.
- Large working volumes to handle part positioning variation.
- Factory calibrated and rectified so each sensor arrives ready to measure.

Sensor Specifications



Sensor Type	Depth of Field (mm)	Field of View at Standoff (mm)		Length (mm)	Weight (kg)
		X	Y		
X200	175	150	140	170	1.73
X300	300	195	201	216	2.00
X400	225	200	200	245	2.18
X800	225	220	180	407	3.19
X1100	225	210	175	528	3.95
X1400	225	210	165	649	4.73

Innovations for industrial metrology



Automation at its best

ISRA VISION has been a leading supplier of high-performance quality inspection, robot guidance, and production logistics systems for more than 30 years.

The addition of Perceptron's automated 3D metrology solutions and coordinate measuring machines to the portfolio offers you tailored and automated quality measurement along the entire process chain. The globally proven and innovative metrology equipment from Perceptron ensures that every product meets the highest standards for end-to-end quality assurance – enabling a fast return on investment.

We consistently align our solutions with the requirements of our customers. We also provide you with full support after delivery in the form of service and maintenance – so you can sustainably raise productivity by using your systems.

More than 900 employees at our sites in Europe, North and South America, and Asia are committed to your success.

Perceptron – the pioneer for automated quality measurement

Together, ISRA and Perceptron exemplify the highest standards of competence and precision. Perceptron is a global leader in automated 3D measuring solutions and coordinate measuring machines. Customers from a wide range of industries rely on Perceptron for the following reasons:

- From 100 % inline quality measurement to coordinate measuring machines – Perceptron offers the right measuring solution for demanding applications. More than 2,700 inline systems from Perceptron are already in operation.
- Perceptron leverages extensive know-how and decades of experience to develop innovative solutions for complex measurement tasks in modern assembly lines. Examples include in-process moving-line gap & flush inspection on transparent surfaces, or the use of state-of-the-art tracking technologies for absolute-accuracy dimensional gauging on the shop floor.
- Our automated metrology solutions ensure that every product meets the highest standards in terms of fit and processing. This reliably minimizes reworking, reduces reject rates, and increases productivity.

ISRA VISION

Germany
Tel.: +49 (6151) 948 0

Germany
Tel.: +49 (89) 96098 0

Spain
Tel.: +34 (93) 839 70 32

France
Tel.: +33 (0) 1 39 09 32 00

Italy
Tel.: +39 (0464) 490 603

UK
Tel.: +44 121 6297794

USA
Tel.: +1 734 414 6100

Brazil
Tel.: +55 (11) 347 611 32

Turkey
Tel.: +90 (212) 285 97 45

P.R. China
Tel.: +86 (21) 685 002 88

P.R. China
Tel.: +86 (21) 3393 2262

Japan
Tel.: +81 3 6240 9177

Korea
Tel.: +82 (31) 806 973 00

India
Tel.: +91 44 4284 9610

Optimize your ROI with the technology leader **ISRA**

info@isravision.com

www.isravision.com