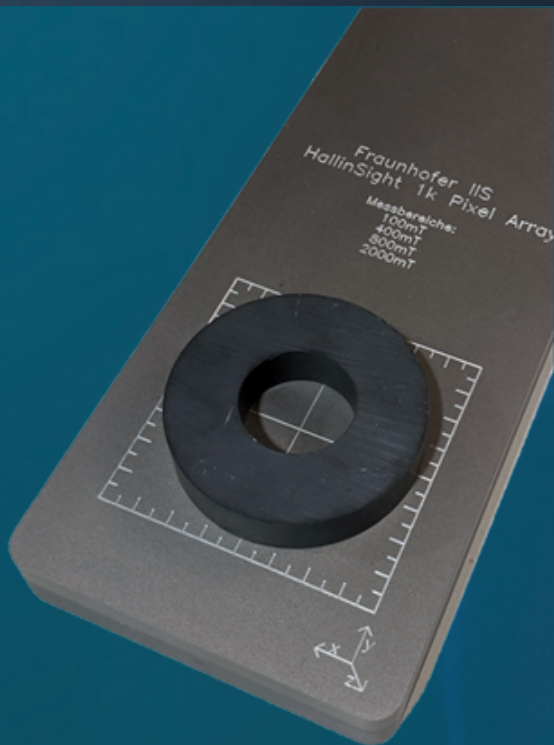


HALLINSIGHT® HALL MAGNETIC FIELD CAMERA AC&DC TRUE 3-AXIS MAGNETIC FIELD MAPS



HallinSight® 32x32, 16x16 and 32x2 3-axis Hall sensor arrays.

Easy-to-use Hall magnetic field camera to map and characterize static or dynamic magnetic fields.



Orthogonality error $< 0.1^\circ$



DC or AC magnetic fields



Field strengths to 2 T



Resolution 4 μ T



3-axis calibration



Dedicated software



Delivered with a calibration to 15 mT



USB interface

HallinSight® is a technology developed by **Fraunhofer Institute for Integrated Circuits** brought to you by Metrolab.



ABOUT METROLAB

We are the **global market leader** for precision magnetometers.

Established in Switzerland in **1985**, we have won the trust of all the large physics laboratories and all leading players in Magnetic Resonance Imaging, **across the world**.

TECHNICAL CHARACTERISTICS AND ACCESSORIES

SYSTEM

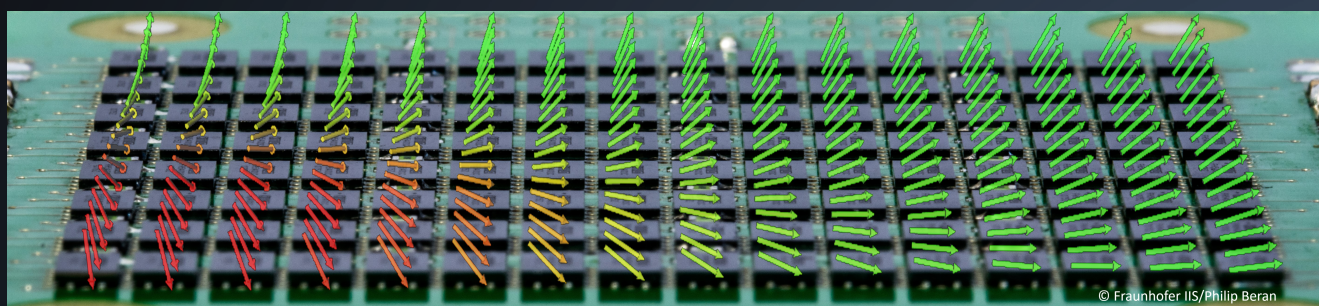
MEASUREMENT PRINCIPLE	Hall sensors
MAGNETIC FIELD RANGE	± 100 mT, ± 200 mT, ± 800 mT, ± 2 T
RESOLUTION -no avg.-	4 μ T for ± 100 mT, 96 μ T for ± 2 T
NOISE	30 μ T RMS
OPERATING TEMPERATURE	10 to 30°C, integrated temperature sensor
MEASUREMENT RATE	Up to 1000 Hz (± 100 mT, single chip)
ABSOLUTE OFFSET ERROR	< 25 μ T (Typical)
ABSOLUTE GAIN ERROR	< 0.5% (Typical)
GEOMETRIC POSITION ERROR	Lateral < 50 μ m ; Vertical < 10 μ m; Orthogonality < 0.1°
COMPUTER INTERFACE	USB with ASCII protocol
SOFTWARE	LabVIEW interface for visualization, analysis, and recording

PROBE Arrays

32x32 Hall sensors
Measurement rate 25 Hz
Sensor array size 80x80 mm
Aluminum case 310x110x22.5 mm

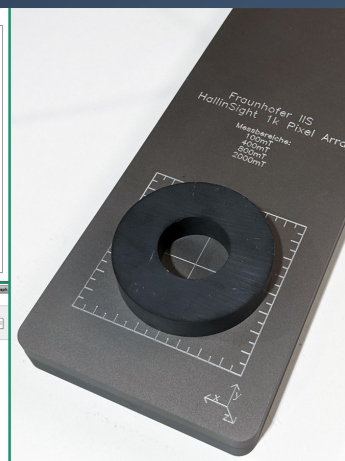
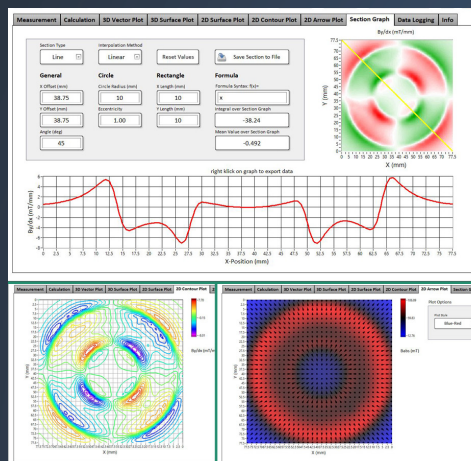
16x16 Hall sensors
Measurement rate 100 Hz
Sensor array size 40x40 mm
Aluminum case 200x60x22.5 mm

32x2 Hall sensors
Measurement rate 250 Hz
Sensor array size 80x2.5 mm
PCB 106x15x2 mm



HallinSight® SOFTWARE

OPERATING SYSTEMS	Windows 7 or Windows 10
KEY MEASUREMENT	Output for each measurement point, or subset of array: Bx, By, Bz, Babs, azimuthal angle, polar angle, temperature
OPERATING MODE	Teslameter
Analysis	Calculated Spherical coordinates and field gradient values Display: 3D vector, and surface plots 2D surface, contour, and arrow plots Section graphs



Warranty: 2 years
Calibration interval: 18 months

Specifications are subject to change; for detailed and up-to-date specifications, see:
www.metrolab.com/products/hallinsight-hall-magnetic-cameras/

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