

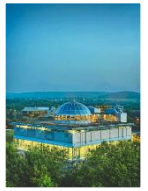


GigaSpike GS-60-XYZ

Active 3D near-field sensor

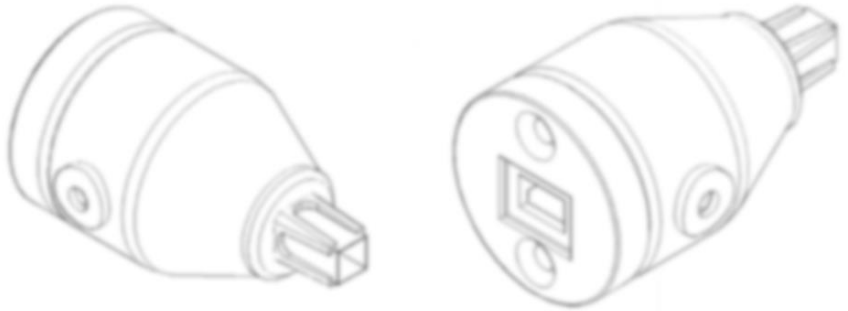
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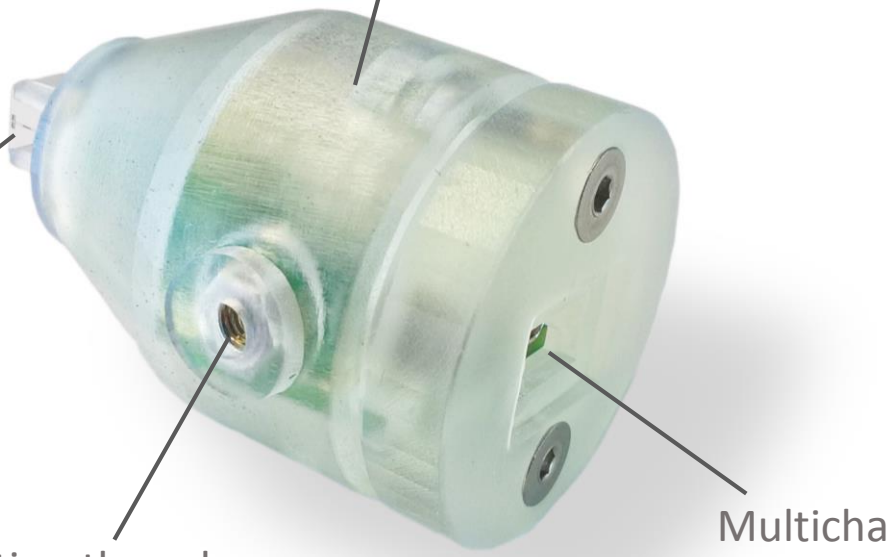


GigaSpike Sensor Design

Main elements

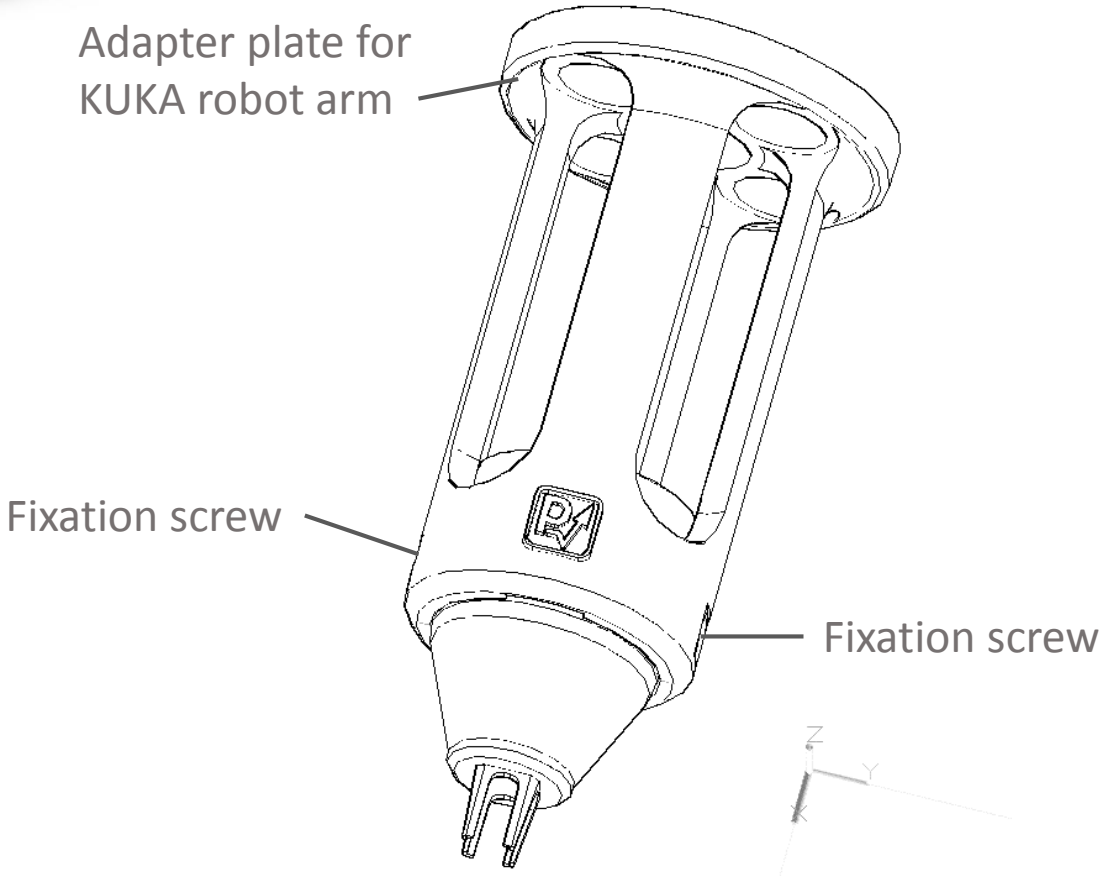


3D (xyz) E-field detection:
Active antennas with integrated
zero-bias Schottky diodes



System integration

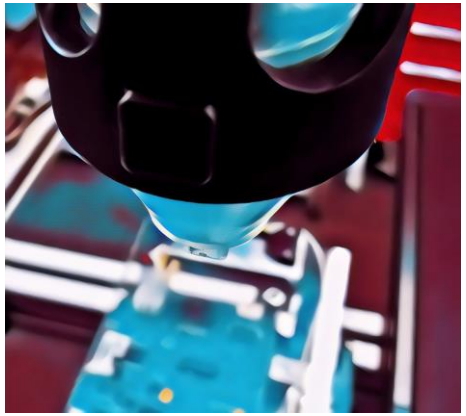
Robot arm mount

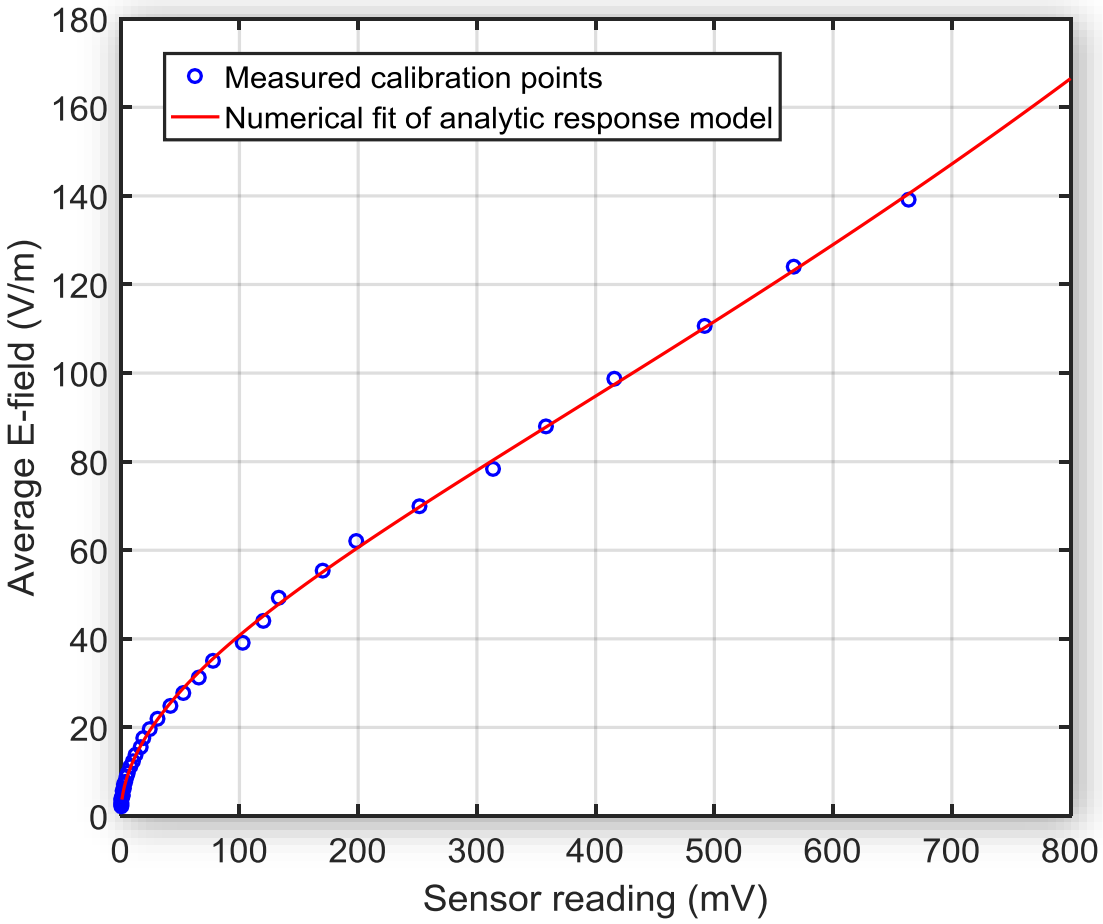




Technical specifications

Responsivity & Calibration data

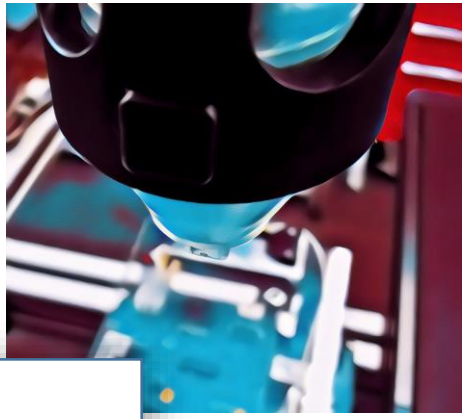




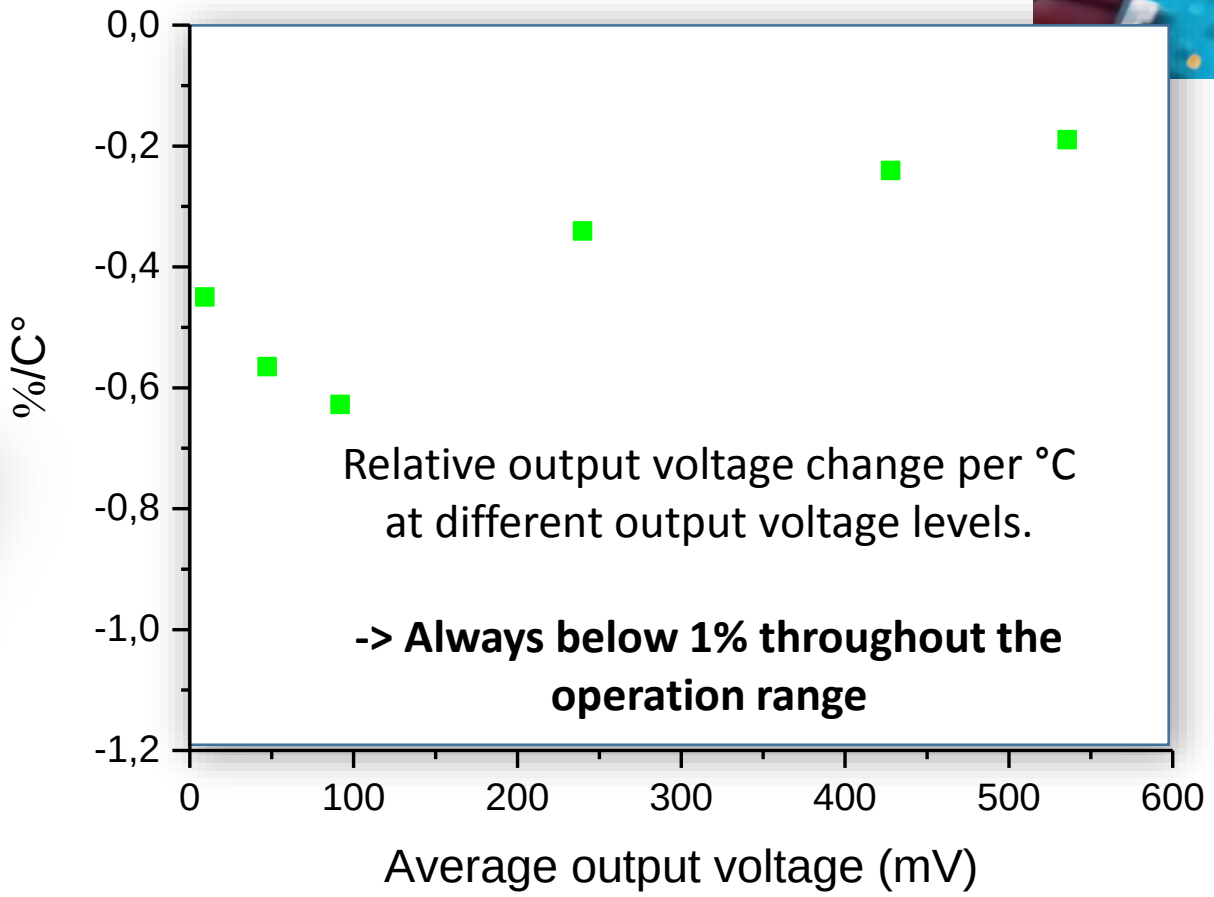
GigaSpike GS-60-XYZ	Min	Max
Frequency range	56 GHz	70 GHz
Power density range	5 nW/mm^2	0.2 mW/mm^2
DC output voltage range	0.1 mV	1.1 V
Responsivity	5500 Vmm^2/W	20000 Vmm^2/W

Temperature stability

GigaSpike GS-60-XYZ

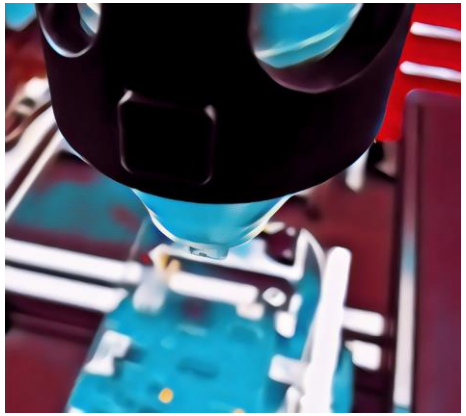


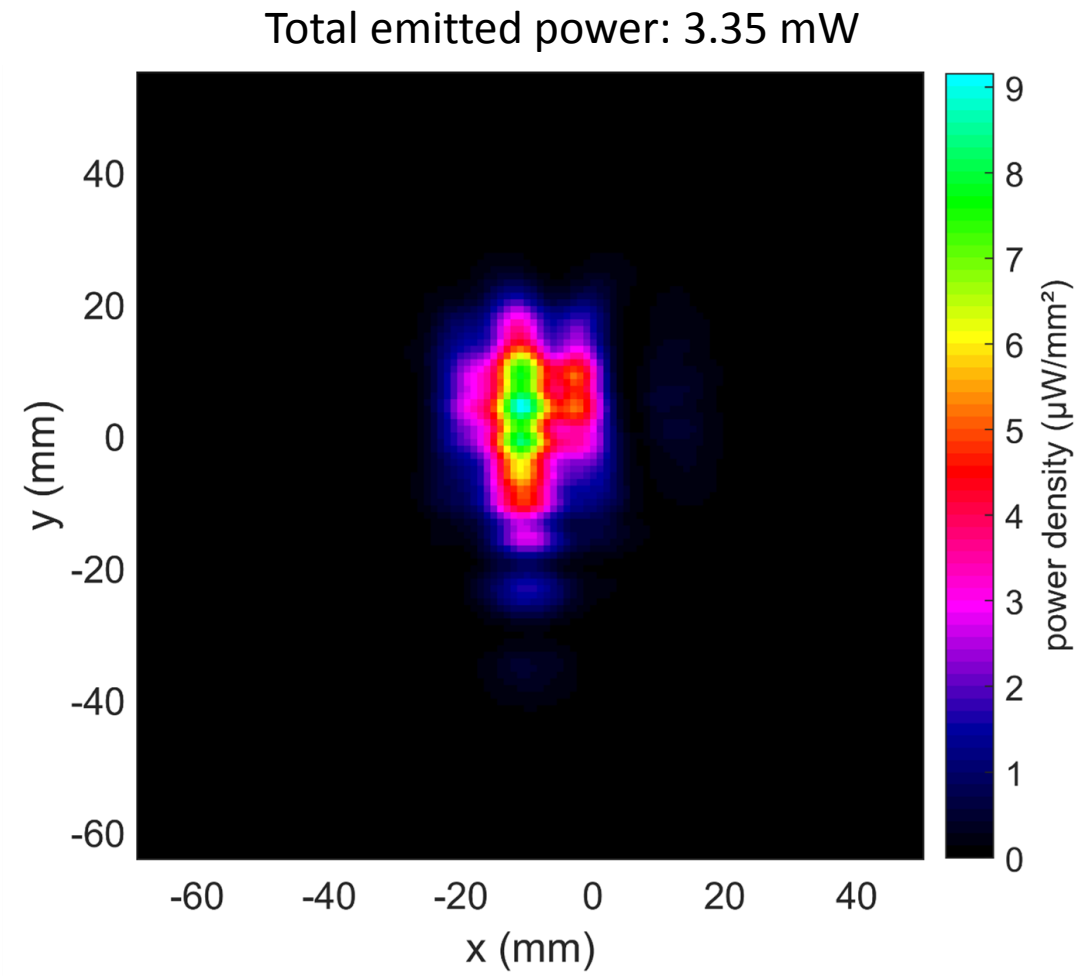




Measurement example

Near-field power density mapping

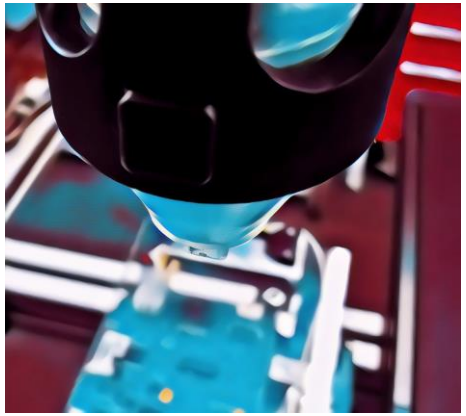




Power density values calculated from 3D E-field data

GigaSpike Probe Models

Standard and Custom



Standard Models:

GigaSpike GS-28-XYZ	Min	Max
Frequency range	25 GHz	32 GHz

GigaSpike GS-60-XYZ	Min	Max
Frequency range	56 GHz	70 GHz

GigaSpike GS-285-X	Min	Max
Frequency range	250 GHz	330 GHz

Customized Probes:

GigaSpike GS-25..330-X(YZ)	Min	Max
Range for selection of central probe frequency	25 GHz	330 GHz