

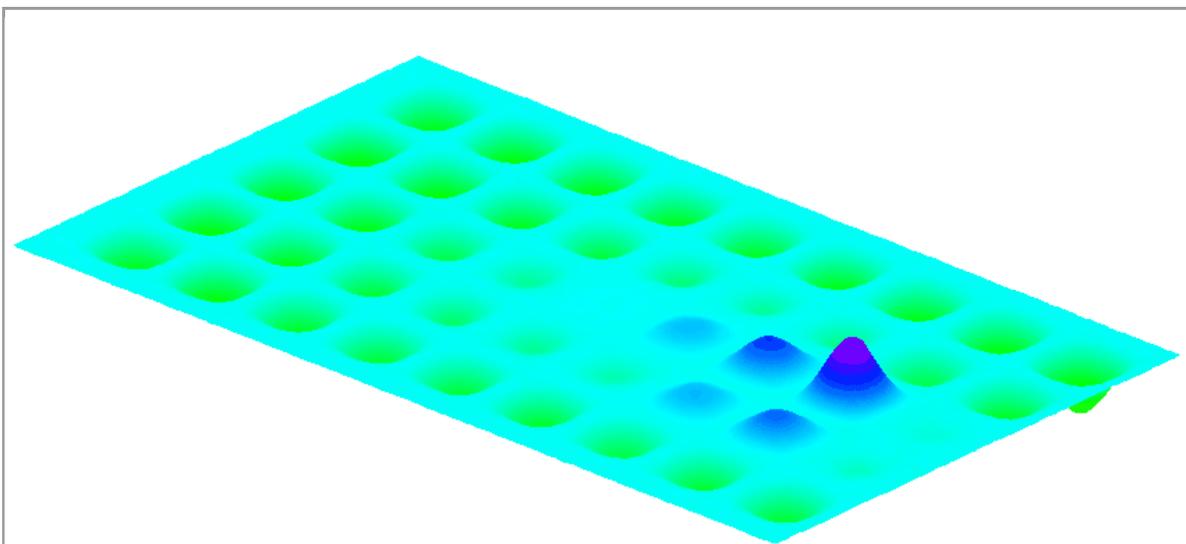


# Full-Field Vibration Map of cMUT, pMUT, and SAW by DHM®

## Mega-points Vibration Map with unprecedented details!

[DHM®](#) is the world's fastest 3D optical profilometer. It provides the most comprehensive MEMS vibration analysis up to 25MHz. And each measurement has a mega data points resolution!

### Vibration 3D Measurements

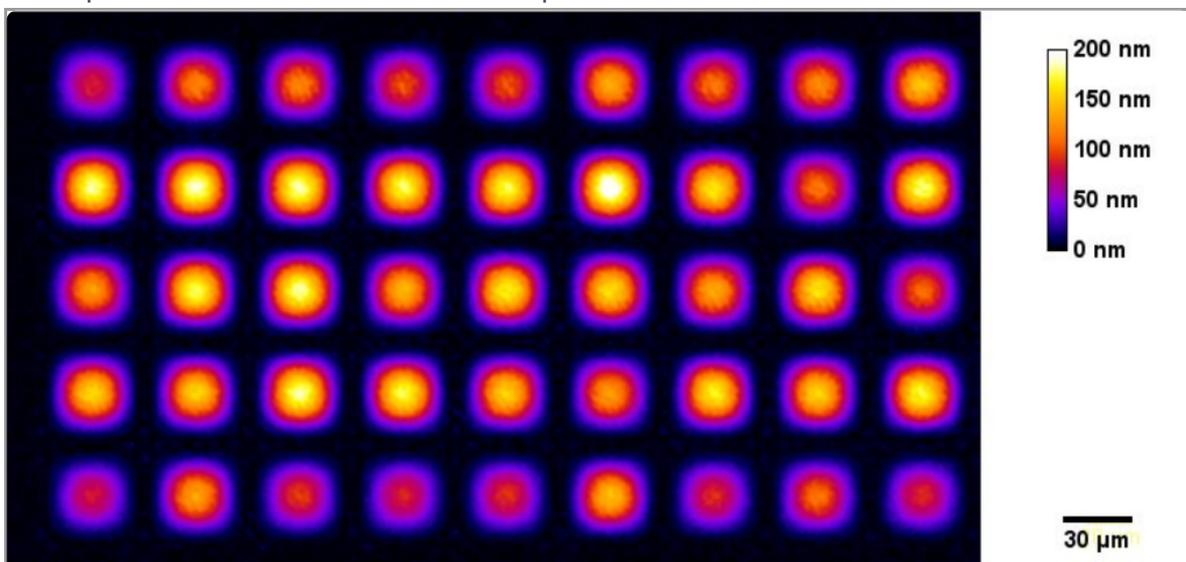


cMUT @ 8MHz

Courtesy of Fraunhofer IPMS, Dresden, Germany

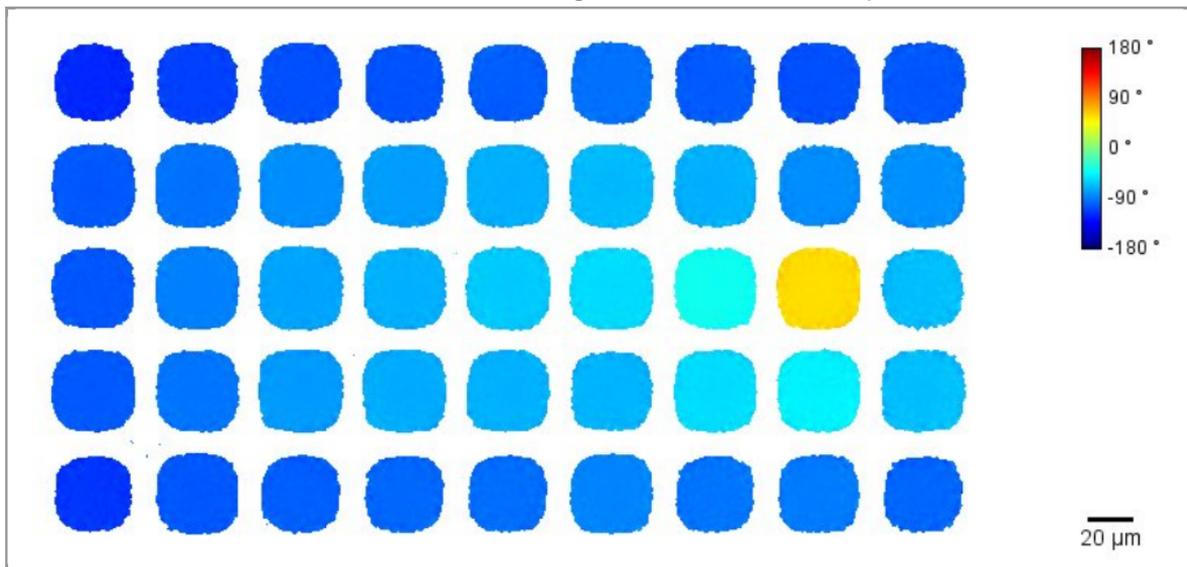
### Vibration Amplitude Map

Amplitude of the vibration for each data point



## Vibration Phase Map

Phase difference between the excitation signal and the MEMS response

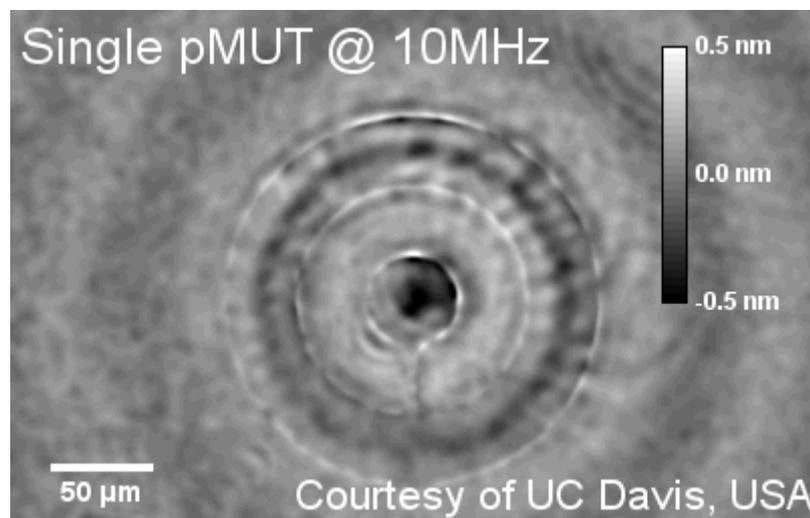


[DHM®](#) is the only system that provides vibration maps with mega data point resolution in just a few seconds!

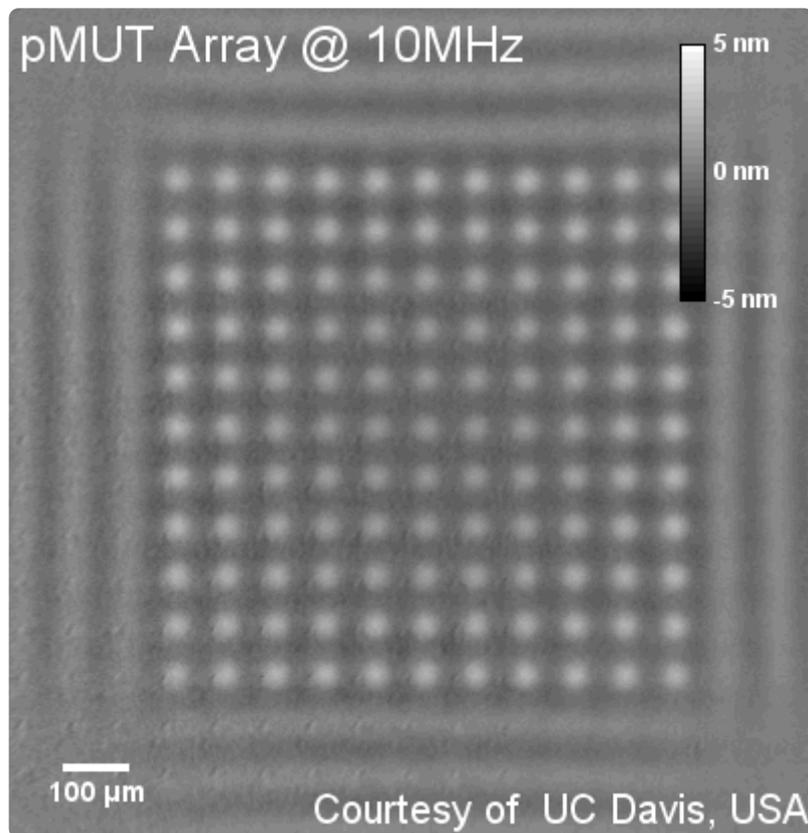
*Check out more!*

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## Picometer Amplitude Surface Acoustic Waves



**Mega-data-point full field measurements** enable to very efficiently characterize the circular Surface Acoustic Wave (SAW) generated by a single pMUT element.



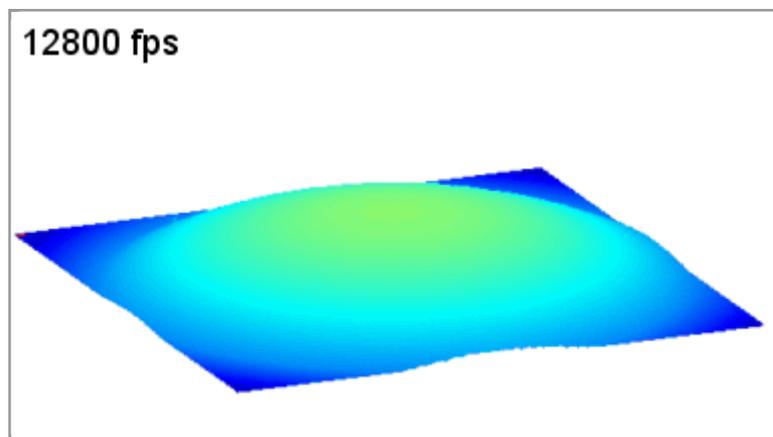
A pMUT array produces a planar SAW on each side.  
with destructive interference at the corners.

*Check out more!*

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## What's more with this MEMS analyzer? It is also the world fastest 3D profilometer!

A precise control of the shape of tunable lenses is important to ensure high quality and aberration free performances. [DHM®](#) enables to measure it with an interferometric resolution at high measurement framerate.



[DHM®](#) is the world's fastest 3D optical profilometer which enables real time 3D topography with acquisition rate up to 100'000 fps.

*Check out more!*

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*Contact us for more details!*

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