



IMPROVED RELIABILITY WITH THE DOLPHICAM2

BINDT Scottish Branch, Reliability of NDT Webinar– 29th January 2021

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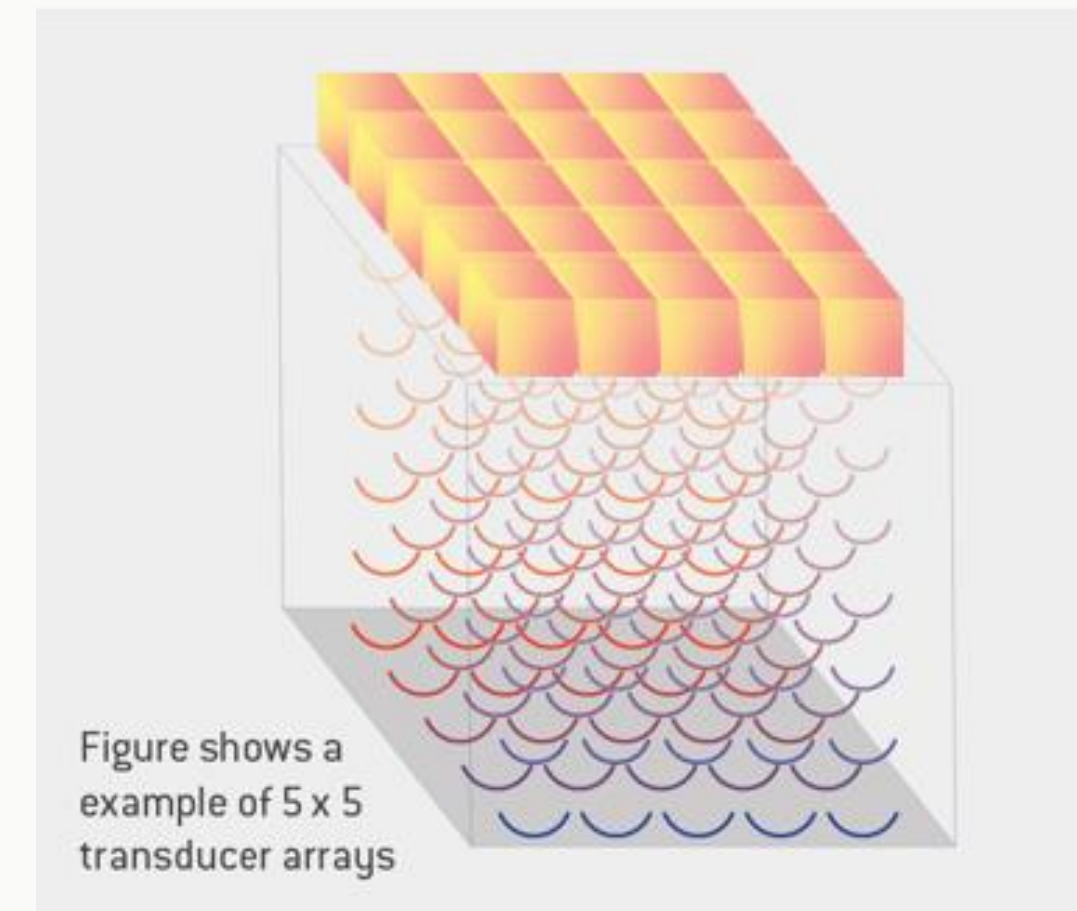
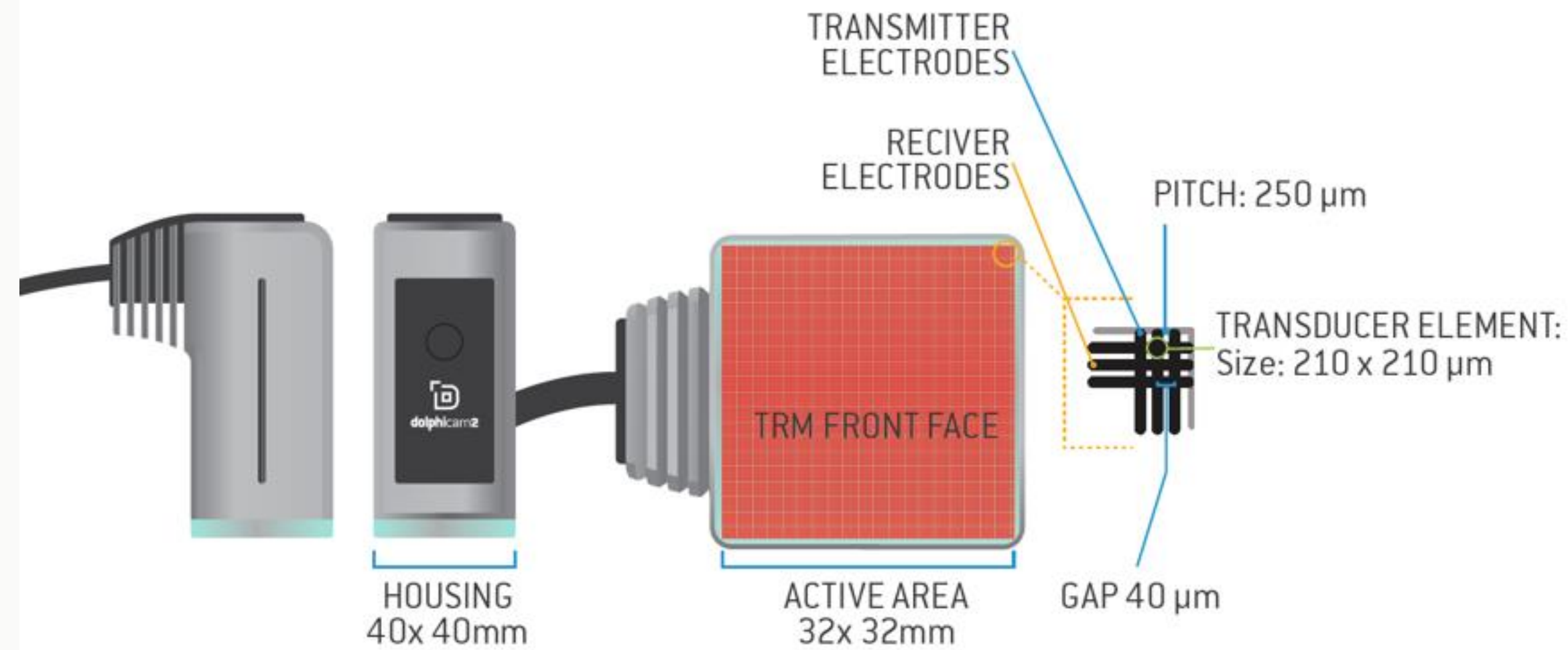
NEXT GENERATION ULTRASOUND TECHNOLOGY

- Unique 2D matrix array transducer
- Live data capture in 3-dimensions and high level of detail
- Transducer frequencies from 1.5 – 10MHz enabling inspection of CFRP, GFRP, metals and multimaterials up to 60mm thick



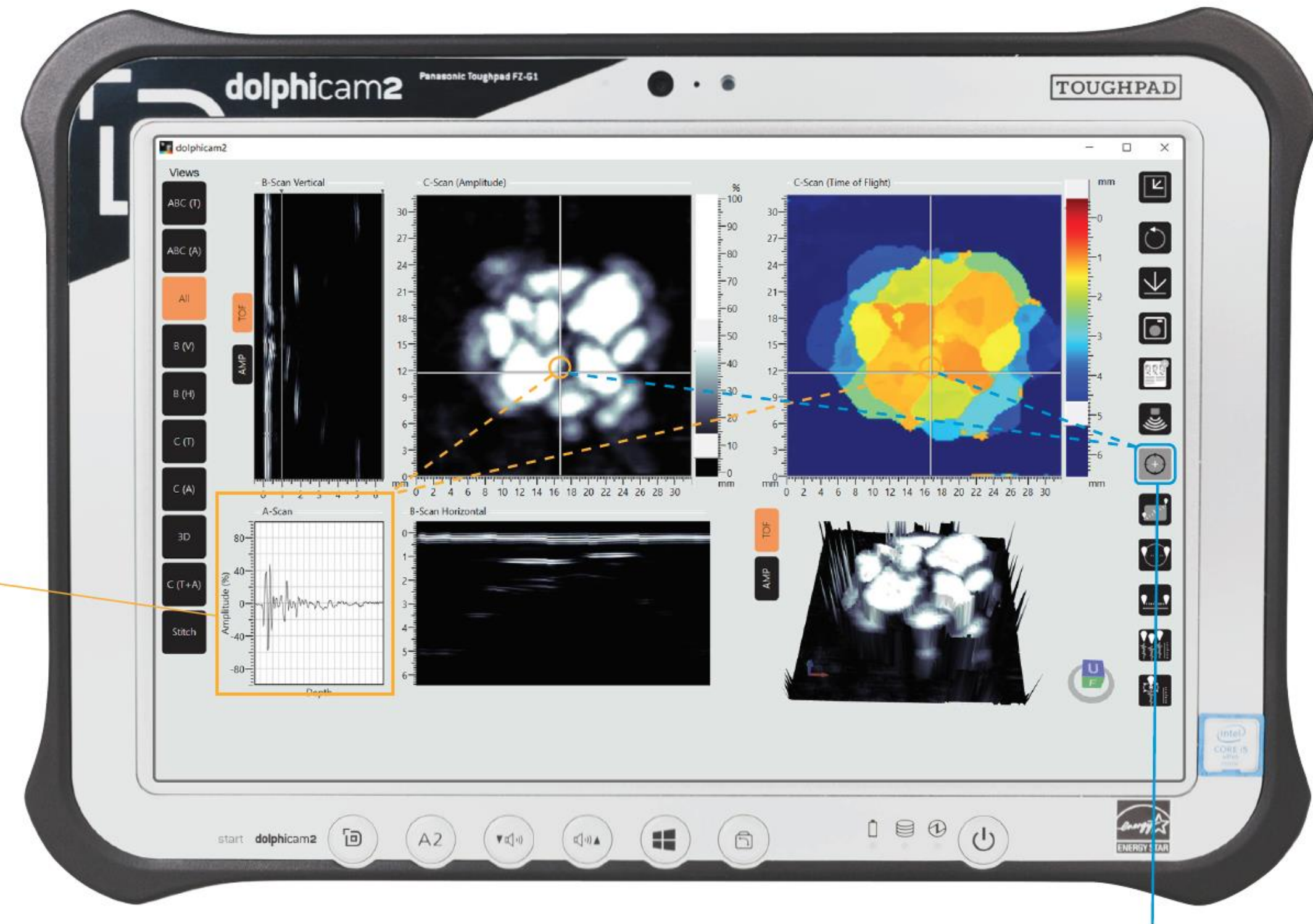
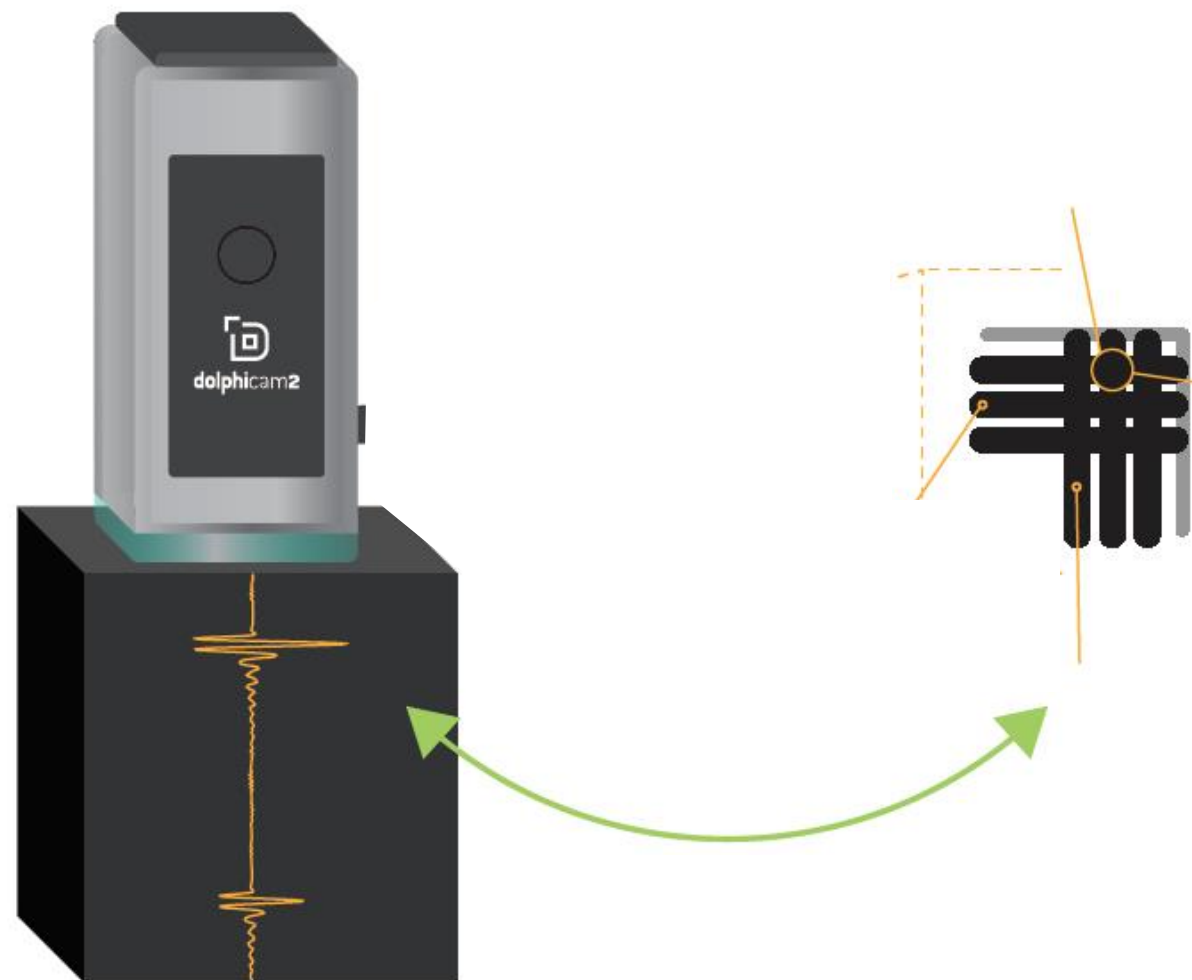
PROVIDING RELIABLE RESULTS

- 128 x 128 crossing electrodes gives 16,384 element active aperture
- Large amount of data acquired helps provide reliability
- FMC data files saved, with TFM reconstruction
- New software release today: standalone viewer + multiple instances simultaneously
- Easy data acquisition reduces operator dependency



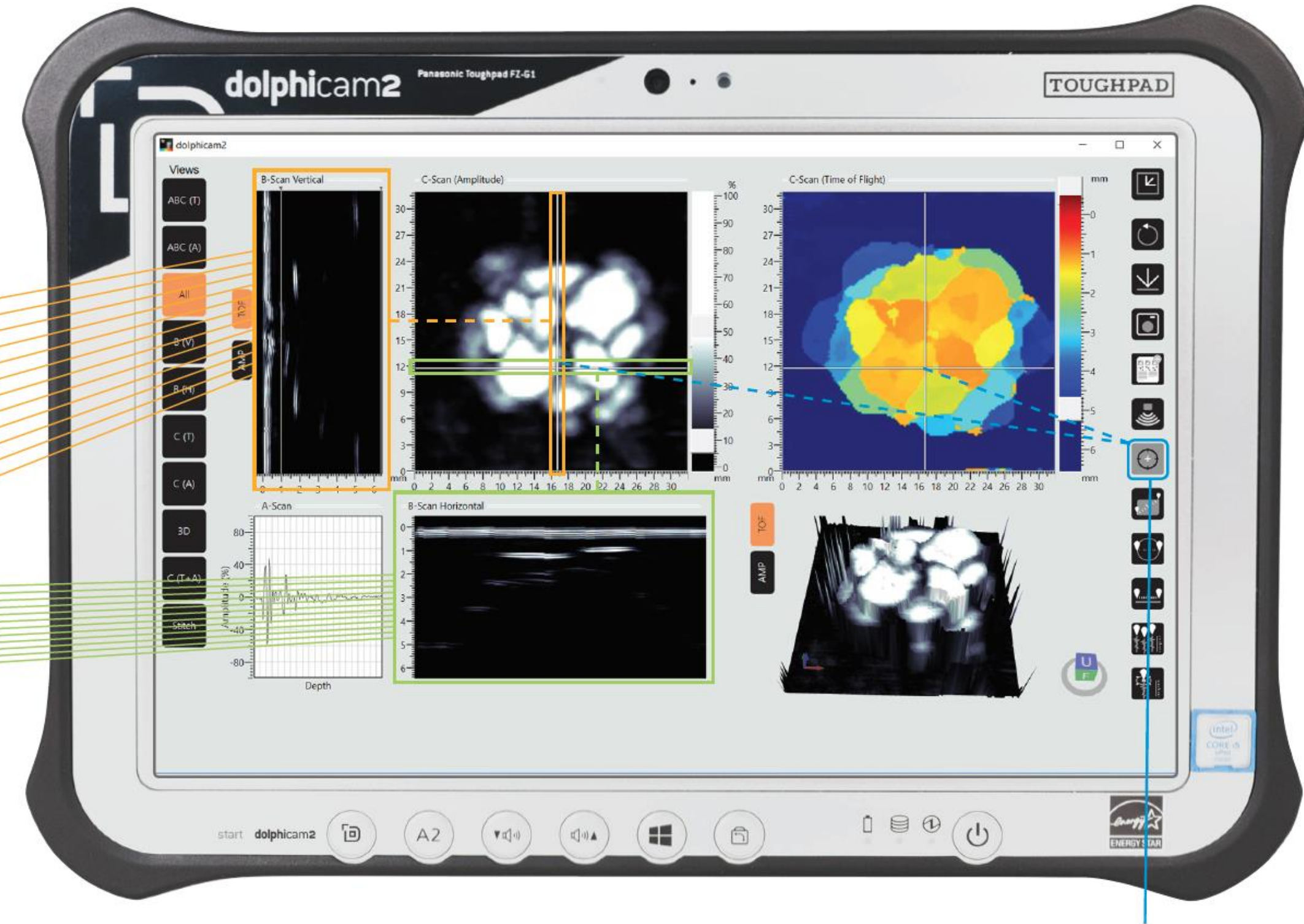
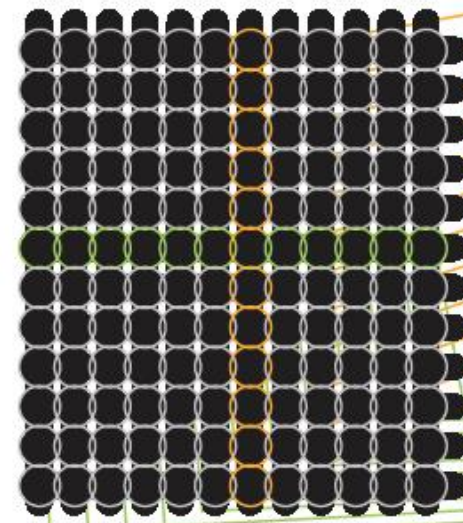
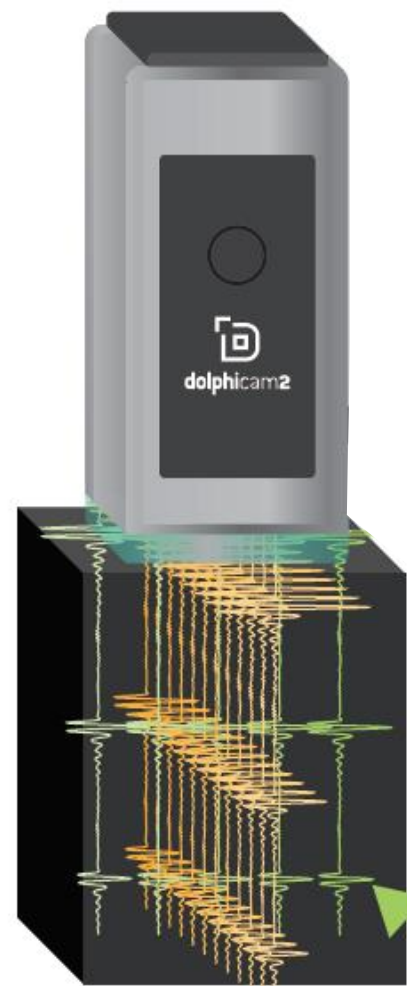
A-SCAN DISPLAY

- A-scan displayed in bottom left shows location at intersection point of crosshairs



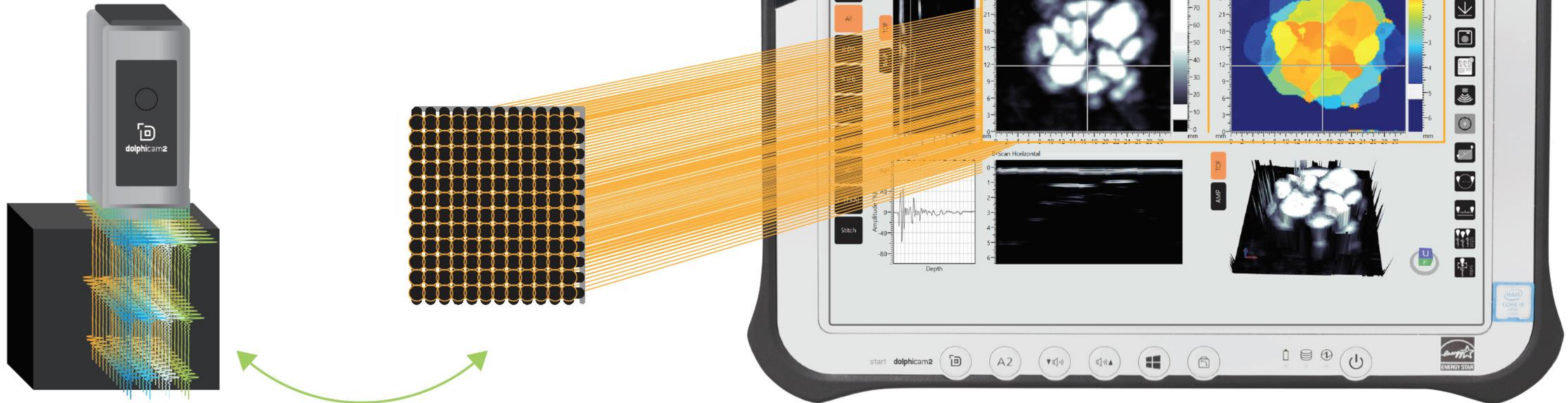
B-SCAN DISPLAY

- Vertical and Horizontal aligned B-scans correspond to two crosshairs



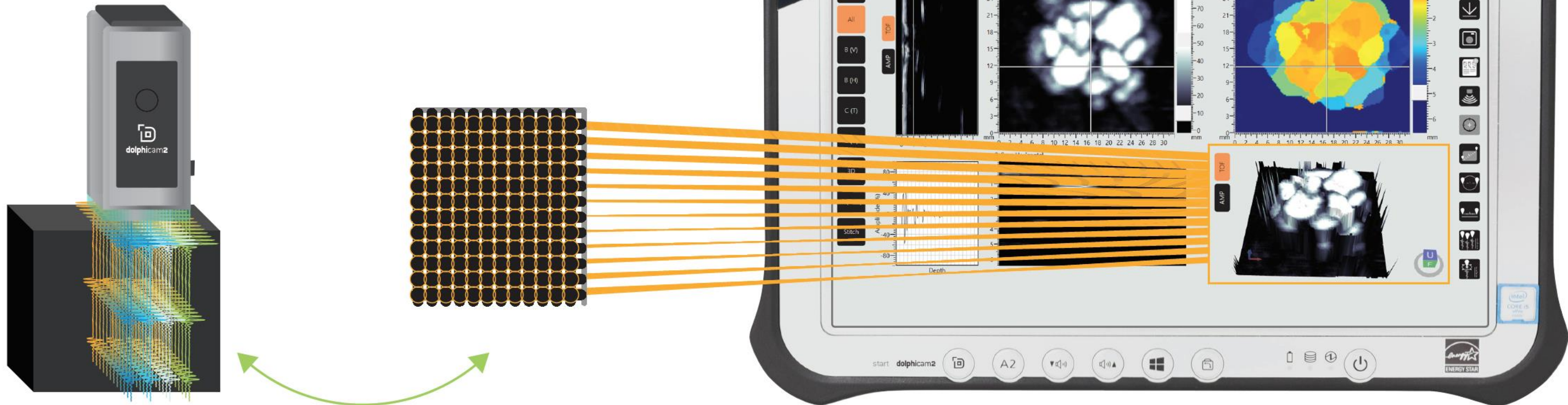
C-SCAN DISPLAY

- C-scan can be displayed in both Amplitude and Time of Flight modes



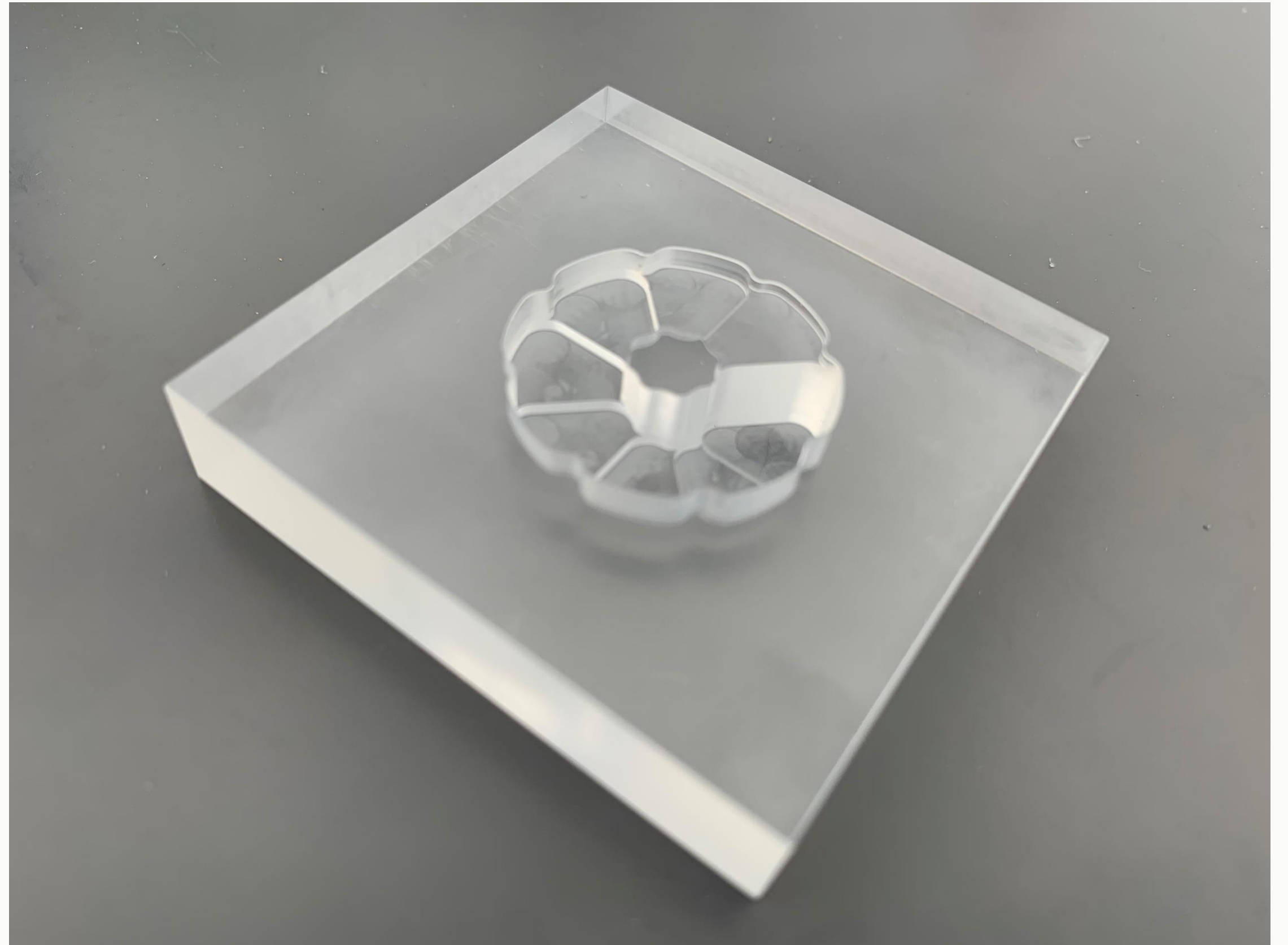
3D DISPLAY

- Live 3D display uses ToF data to visualise damage in real time



DEMONSTRATION – PERSPEX STEP WEDGE

- 50x50x10 mm
- 8MHz transducer
- Default settings





THANK YOU, ANY QUESTIONS?

