



SonaCam & GridTool



Simplicity | Capability | Reliability

SonaCam

SonaCam is a mobile and ergonomic ultrasound camera system designed for NDT inspection of CFRP (Carbon Fiber Reinforced Plastics) creating high-resolution 2D and 3D images of suspected damage areas.

DRY COUPLING TRANSDUCER

The silicone-based 16,000 element transducer enables dry coupling on painted or shiny surfaces. Water or contact gel can be used on rougher surfaces.

SMALL CAMERA WITH ADVANCED FEATURES

SonaCam connects to a standard Windows PC or Tablet through the USB port, makes the system very portable and flexible. The SonaCam software creates A-, B- and C-scan images of very high quality supporting Amplitude and Time-of-Flight modes. By adjusting pulse and gate settings, color thresholds and other camera settings, material defects are easily identified. We also added an effective Manual Stitching Mode to ease large-area inspections. Camera settings are easily stored and retrieved for quick camera configuration. The SonaCam 3D viewer creates crystal-clear images of material defects, and makes it easy to perform a defect analysis and to develop optimal repair strategies. The 3D image can be zoomed, panned and rotated.



NDT FOR EXPERTS AND OPERATORS

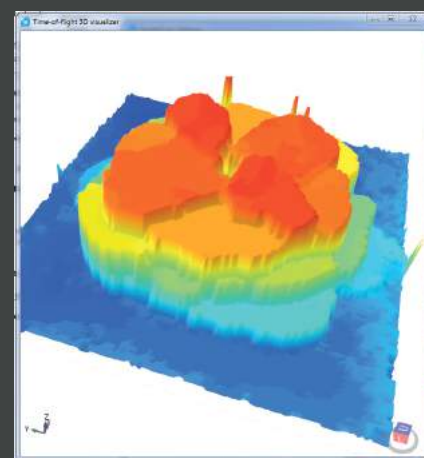
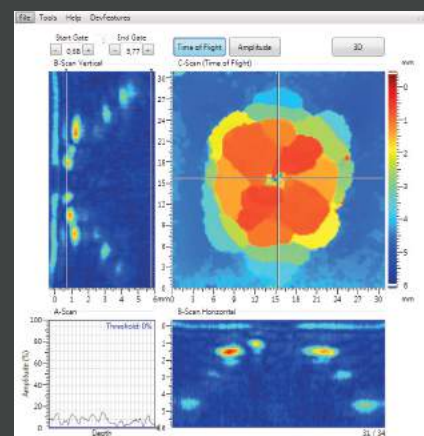
The SonaCam comes in two versions; SonaCam Expert Cameras are optimized for NDT engineers and experts that want advanced features and detailed control over all camera settings. SonaCam Operator Cameras are perfect for inspectors that regularly performs NDT jobs but do not need advanced features, and they are used as inspector cameras in our TeamCenter system. In TeamCenter, the Expert creates inspection procedures that embeds SonaCam functionality. Field Inspectors follow the Expert guidance, performing high quality NDT, saving time and money. True scalable NDT is available today

NDT FOR EXPERTS AND OPERATORS

	0.8mm CFRP	0-16mm CFRP
Expert (Full feature set)	DC-CF08-EXPERT	DC-CF16-EXPERT
Operator (For Team Center)	DC-CF08-OPERATOR	DC-CF16-OPERATOR

Features

- High resolution images
- 16,000 transducer elements
- Dry coupling
- 2D and 3D images
- A-, B-, and C-scans
- Amplitude & Time of flight
- Stitching function
- "Traffic light" color palette
- Highly configurable settings
- Compact and ergonomic
- Large internal battery
- Easily operated by non-experts
- Windows software (Windows 7 or newer)



GridTool

The GridTool is a mechanical positioning device for the SonaCam Ultrasound Camera that makes it easy and quick to inspect large areas. Its solid construction from high quality linear bearings ensure smooth scanning, high precision and high inspection speeds.

The SonaCam is easily secured to the GridTool with 3 set screws. The attachment is hinged to allow access to non-planar surfaces.

Constructed using high quality linear bearings, the SonaCam can easily be positioned in 25 mm incremental positions over a full 50 by 50 cm area. Each camera position is secured with a ball-plunger as the operator acquires the image and before moving the camera to the next position.



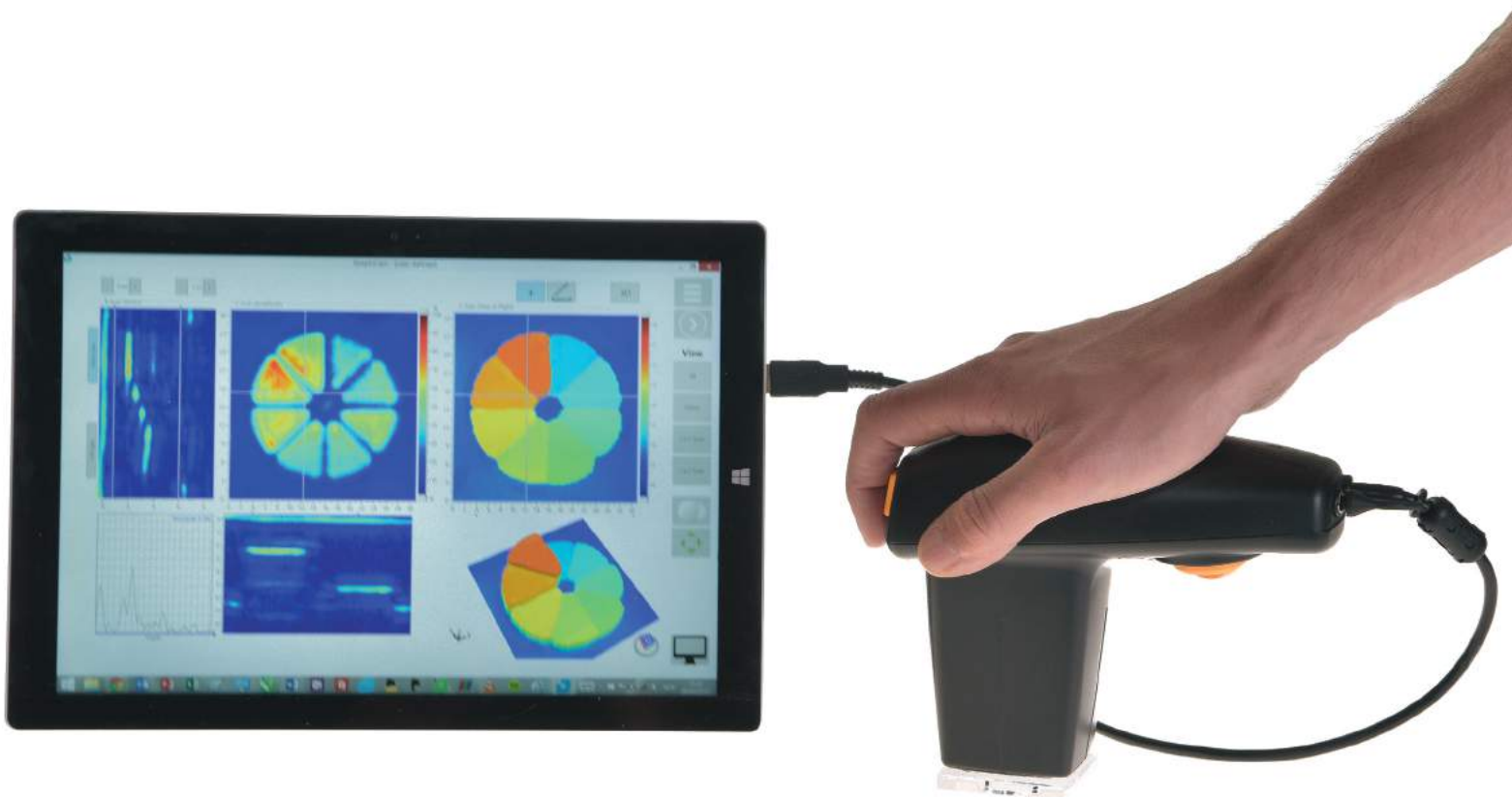
Two heavy duty suction cups are included for extra stability and precision.

The SonaCam software allows for multiple scanning modes, including various vertical and horizontal modes as well as other features to make real-world stitching easy and fun.

A trained operator would be able to achieve a scanning rate of less than 5 secs/image, about half an hour for a 50 x 50 cm area.

The GridTool comes in a robust transport box

	SonaCam GridTool
Weight	2 kg (4.41 lbs)
Scanning increment	25 mm (0,98")
Scanning area	50 x 50 cm (16,69 x 16,69")
Fixture	1 or 2 suction cups, botled to surface



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