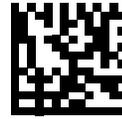


NASA Read-Through-Paint Products

Hidden



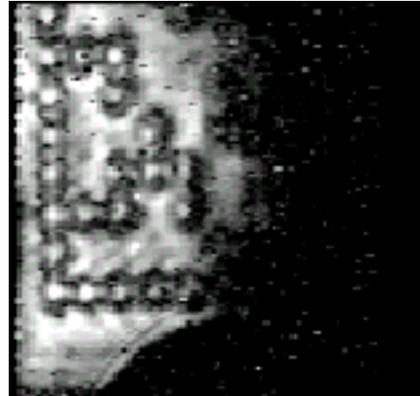
Symbols

Ultrasonic

Handheld Contact Reader

A portable ultrasonic scanner about the size of a hair dryer

Decodable images (right) through 15 mils of copy paper or paint



Latest Handheld Image Laser Mark

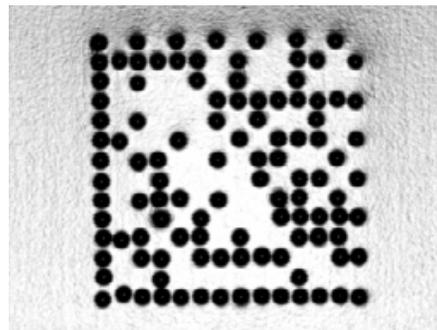
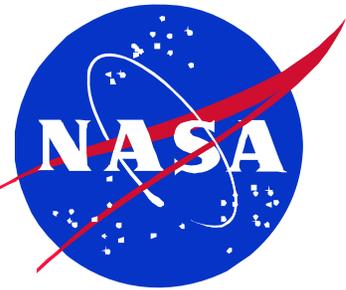


Image through paint Software enhanced; Goal for standard capability



Imperium is the manufacturer

Licenses are available
by contacting:

Sammy.nabors@nasa.gov

256-544-5226

AcoustoCam™ I400

Ultrasound Imaging Camera



* PC not included

For Nondestructive
Testing of Materials

System Overview

What is it?

The AcoustoCam™ I400 is a novel ultrasound camera system provides inspectors with a real time view of subsurface faults. This represents a user friendly alternative to an A-scan thickness gauge or flaw detector.

What is it used for?

The AcoustoCam™ I400 can immediately provide information about subsurface faults including:

- Corrosion
- Cracking
- Voids
- Impact Damage
- Delaminations

How is it used?

Inspectors need only put some ultrasound gel up to the part under study, place the AcoustoCam™ I400 probe up to the part and begin imaging. The images are shown on an LCD integrated into the back of the unit. Once a fault is detected, the image can be saved for later evaluation.

Technical Specifications

Included Components:

- Camera subassembly with imaging array, F/1 acoustic lens, source transducer, pulser control unit, sample focusing target, cables, User's manual

Frame Rate:

-30 fps

Ultrasound Dynamic Range: -14 bits

Grey Levels: -256

Frequency Response: -1 to 4MHz

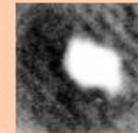
Video Output: -RS170 EIA

Operating Temp. Range: -32° to 104°F (0° to 40°C)

Storage Temp Range: -32° to 104°F (0° to 40°C)

Power: -120V AC

Specifications subject to change without notice



This image of a void inside of a composite material was taken in 1/30 second.



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