

ACOUSTOCAM

The Future of Medical Ultrasound

THE ACOUSTOCAM ULTRASOUND CAMERA OFFERS THE POTENTIAL OF A BREAKTHROUGH IN CLINICAL MEDICAL ULTRASOUND IMAGING. THE DEVICE GENERATES SPECKLE-FREE, C-SCAN VIDEO RATE IMAGERY OF A WIDE VARIETY OF INTERNAL TARGETS. CURRENTLY UNDER DEVELOPMENT, THE DEVICE IS OFFERED TO MEDICAL RESEARCH INSTITUTES, COLLABORATING COMPANIES, AND ACADEMIC ORGANIZATIONS FOR APPLICATION-SPECIFIC CLINICAL USES.

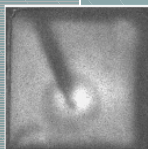


❖ INSTANT	❖ INTUITIVE	❖ SIMPLE	❖ FLEXIBLE
<p>THE ACOUSTOCAM IMAGING SYSTEM GENERATES REAL-TIME VIDEO IMAGES. IMPERIUM'S INSTANT C-SCAN TECHNOLOGY IS A SUBSTANTIAL IMPROVEMENT OVER TODAY'S B-MODE ULTRASOUND.</p>	<p>C-MODE IMAGING IS THE FIRST TRUE ULTRASOUND VIDEO CAMERA. IMAGERY IS PRESENTED ON A PC OR LCD IN REAL TIME. INTERPRETATION IS MUCH EASIER THAN CONVENTIONAL B-MODE IMAGING, FREE FROM ANY ARTIFACTS. THE IMAGES ARE STRIKING FOR THEIR FLUOROSCOPY-LIKE APPEARANCE.</p>	<p>THE ACOUSTOCAM OFFERS THE POTENTIAL FOR OEMs TO DEVELOP APPLICATION-SPECIFIC DEVICES IN A VARIETY OF SPECIALTIES, ENABLING THE DEVELOPMENT OF A SIMPLE TO USE DEVICE THAT IS MUCH EASIER TO INTERPRET THAN B-MODE ULTRASOUND DEVICES.</p>	<p>THE SAME SYSTEM COULD BE USED WITH MULTIPLE FREQUENCIES BY SIMPLY SWITCHING TRANSDUCERS. THE USE OF THE ULTRASOUND CAMERA ENABLES 'THROUGH TRANSMISSION' IMAGING AS WELL AS TRADITIONAL PULSE-ECHO IMAGING, SOMETHING NOT POSSIBLE WITH CURRENT B-MODE SCANNERS.</p>

APPLICATIONS

POTENTIAL CLINICAL APPLICATIONS

- BREAST IMAGING
- MUSCULOSKELETAL
- CARDIOLOGY
- OB/GYN
- OPHTHALMOLOGY
- ER



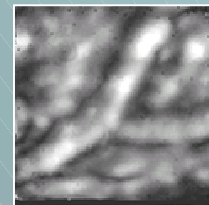
APPLICATION MODES

- PULSE ECHO
- THROUGH TRANSMISSION
- HANDHELD
- FIXED



ADVANTAGE OVER B-MODE

- PLANAR IMAGING, NOT PERPENDICULAR
- SPECKLE-FREE
- LOWER COST
- ADDITIONAL CLINICAL APPLICATIONS



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SPECIFICATIONS

IMAGING	
FIELD OF VIEW	1.0 " INSTANTANEOUS
ARRAY ELEMENTS	120 X 120 (14,400)
PIXEL SIZE	100 MICRONS
VIDEO RATE	30 FRAMES/SECOND
OUTPUT FORMAT	RS170
DEPTH PRECISION	10 NANOSECOND
DISPLAY	2.5" LCD OR PC MONITOR
DYNAMIC RANGE	70 DB INSTANTANEOUS
OPERATING MODE	THROUGH-TRANSMISSION OR PULSE-ECHO
ULTRASONIC MODE	C-MODE
LENS	F/1 TWO ELEMENT ACOUSTIC LENS
FREQUENCY	
OPERATING FREQUENCY	1 MHZ TO 8 MHZ
POWER	
AC OPERATION	AC ADAPTER 110/240 VAC, 50/60 HZ (UNIVERSAL POWER SUPPLY)
SOFTWARE	
SOFTWARE	ACOUSTOVISION™ CAMERA CONTROL SOFTWARE
STANDARD EQUIPMENT	
SYSTEM	CAMERA HEAD, CONTROL UNIT, CABLES, SOFTWARE, MANUAL
WARRANTEE	
TERM	1 YEAR WARRANTEE INCLUDED; EXTENDED OPTIONS AVAILABLE

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