

GAMMEX



ULTRASOUND



# Doppler Flow System

**GAMMEX 1425A LE**

The Gammex 1425A LE Doppler Flow System tests both Doppler and B-mode ultrasound systems using one uniquely designed unit. Gammex combines its low echo matrix with strategically placed line reflectors and anechoic cyst targets at 2, 4, and 6 mm depths. Two 5 mm vessels are incorporated into the system to meet with FDA Doppler sensitivity recommendations. One vessel is parallel to the scan plan at 2 cm, replicating a carotid artery. The other vessel descends 45 degrees from the surface to test Doppler sensitivity and to train different scanner techniques. All of this is combined with a flow controller

with microprocessor that has a range of 1 to 12.5 ml/sec. You can access five programmable test programs and five preset pulse flow patterns with the easy-to-use display panel. This allows for reproducible testing time after time.

By combining the flow system, phantom, and electronic flow controller into a self-contained dual purpose Doppler Flow System, the Gammex 1425A LE is an excellent instrument for performing a multitude of functions. Scanner selection, quality control testing, training, and research can all be performed using this multi-faceted ultrasound tool.

*continued .....*



WWW.GAMMEX.COM

**PEO B.V.**

info@gotopeo.com  
www.gotopeo.com

**The Netherlands**

Havenweg 16, 6603 AS Wijchen  
+31 (0)24 648 86 88

**Belgium**

Watermolenstraat 2, B-2910 Essen  
+32 (0)3 309 32 09

CoC 34107894

VAT NL807859151B01

IBAN NL29 RABO 0356 1960 46

BIC RABONL2U





# GAMMEX 1425A LE

ULTRASOUND

*continued from front...*

All of the following quality indicators can be measured in real time:

- Maximum signal penetration
- Channel isolation or directional discrimination
- Registration of duplex sample gates and similarities between B-mode and color flow images
- Flow rate visibility for various angles, beam directions and operating modes

The Gammex 1425A LE is not only one of the most versatile dual-purpose systems available, but it's completely portable as well. This makes our Doppler Flow System a must-have for your ultrasound quality control.

## SPECIFICATIONS

### Tissue Mimicking Material

Speed of sound . . . 1540 ±10 m/s  
Attenuation . . . . 0.5 or 0.7 ±0.05 dB/cm/MHz

### Targets

Cyst speed  
of sound. . . . . 1540 ±10 m/s  
Cyst attenuation. . . 0.05 ±0.01 dB/cm/MHz  
Diameter of  
nylon lines . . . . . 0.1 mm (0.004 in)  
Size tolerance. . . ±5%  
Location  
tolerance . . . . . ±0.1 mm (0.004 in)

### Vessels

Size. . . . . 5 mm diameter  
Location . . . . . 2 cm below surface;  
2 to 16 cm at 40° angle

### Blood Mimicking Fluid

Density . . . . . 1.03 g/cc  
Speed of sound . . . 1550 ±10 m/sec  
Scatter size . . . . 4.7 micrometers average

### Electronic Flow Control System

Constant  
flow mode . . . . . 1 to 12.5 ml/sec ±3%  
Calculated  
velocities . . . . . 10-110 cm/sec  
Pulsatile  
flow mode . . . . . 5 programmed waveforms

Container Size. . . . 40.6x24.8x40 cm  
(16x9.75x15.75 in)

Weight. . . . . 10.4 kg (23 lbs)  
All acoustic measurements at 4.5 MHz, 22°C



GAMMEX INC.  
P.O. BOX 620327  
MIDDLETON, WI 53562-0327  
USA  
**+1 800 GAMMEX1 (426 6391)**  
+1 608 828 7000  
FAX: +1 608 828 7500  
EMAIL: SALES@GAMMEX.COM

GAMMEX-RMI LTD.  
BROADWAY BUSINESS CENTRE  
32A STONEY STREET  
NOTTINGHAM NG1 1LL  
UNITED KINGDOM  
+44 (0) 115 924 7188  
FAX: +44 (0) 115 924 7189  
EMAIL: UKSALES@GAMMEX.COM

GAMMEX-RMI GMBH  
FRANKFURTER STRASSE 15  
D-35390 GIESSEN  
GERMANY  
+49 (0) 641 250 9176  
FAX: +49 (0) 641 966 2642  
EMAIL: DESALES@GAMMEX.COM

0908 © Gammex, Inc. All rights reserved.

For more information contact GAMMEX today at 1 800 GAMMEX 1 (426 6391) or visit [WWW.GAMMEX.COM](http://WWW.GAMMEX.COM)

