

The MRIjx is the ideal system for use in teaching the operation of the NMR system. The MRIjx system is easy to operate, to demonstrate magnetic resonance imaging results as part of the classroom learning experience of MRI theory. First time users of the system will find it easy to use and can perform complete MRI experiments in the classroom. In addition, the system offers an on-line self help function, to facilitate on-line participation in the experiment by students outside the classroom.



Specifications:

Permanent magnet field strength: 0.51T

Magnet system frequency: 22.3MHz

Magnet distance: 35mm

Homogeneity: 15ppm (10mm X 10mm X 10mm)

Resonance frequency: 21.7MHz

Magnet temperature control precision: $\pm 0.02^{\circ}\text{C}$ (when temp. in magnet cabinet is stable)

Pulse length adjustment: automatic or manual

Center frequency adjustment: automatic or manual

Probe diameter: 15mm

Gradient magnetic field: greater than 0.6mT/cm in X and Y direction, and greater than 0.5mT/cm in Z direction

Minimum slice thickness: 2mm

Minimum resolution: 0.10mm

Digital spectrometer includes: DDS, DAC and ADC boards, with Windows XP operating system