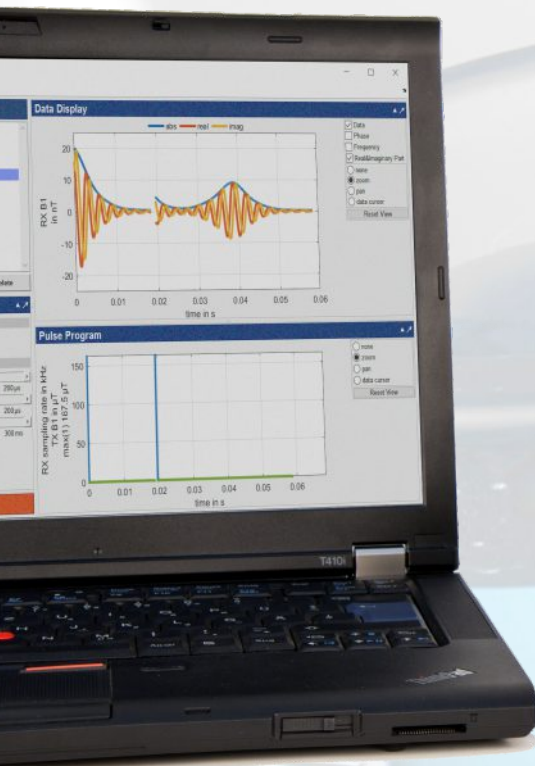
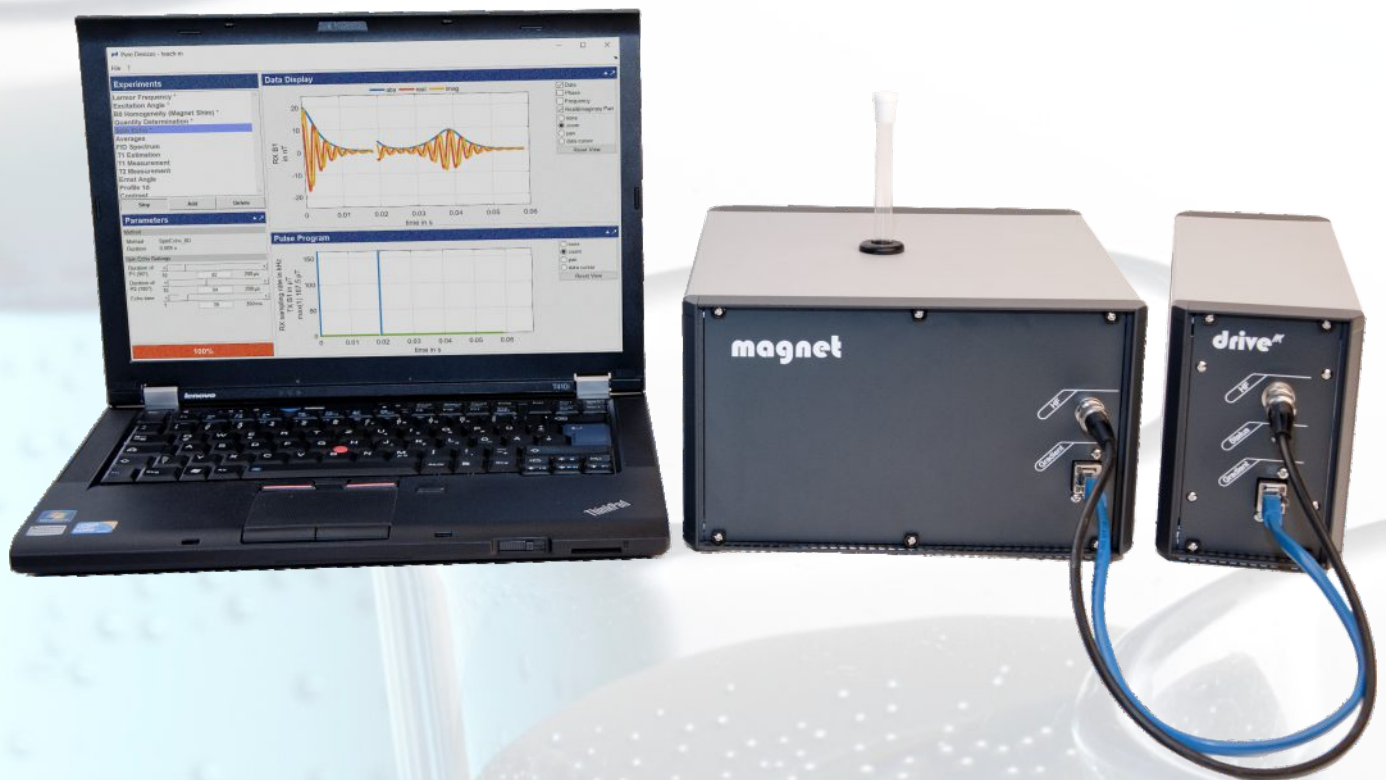


portable^{Lab}

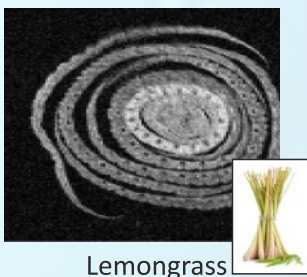
benchtop MRI training system



The “portable Lab” benchtop MRI teaching system comprises a control unit, magnet and PC-based teaching software. Optimized for educational and training purposes, it is a great way to provide valuable practical experience in the fields of science and medicine.



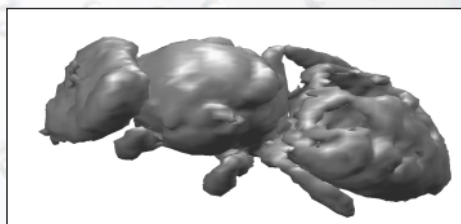
The system differs from clinical magnetic resonance tomographs only in sample size and portability. With hands-on training, students can perform fundamental experiments on signal generation in addition to acquiring high resolution images with all relevant contrasts.



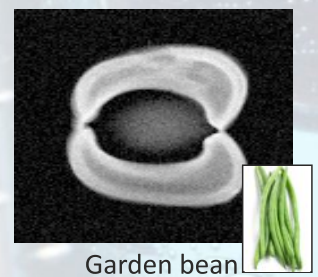
Lemongrass



Honey bee



Garden bean



drive^m

control unit

Drive-m, our control unit, is about the size of a shoebox and offers a complete MRI scanner for educational NMR and MRI experiments. Created with state of the art electronics, the control unit contains built-in gradient and RF amplifiers.



magnet

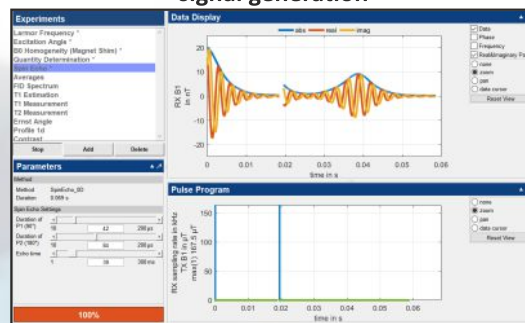
magnet unit

The magnet includes a high-end gradient system for 2D and 3D images. A multitude of samples with a diameter of up to one centimeter can be measured with the sensitive receiver system. Since it has no special environmental requirements, the magnet can be used in any laboratory or classroom setting.

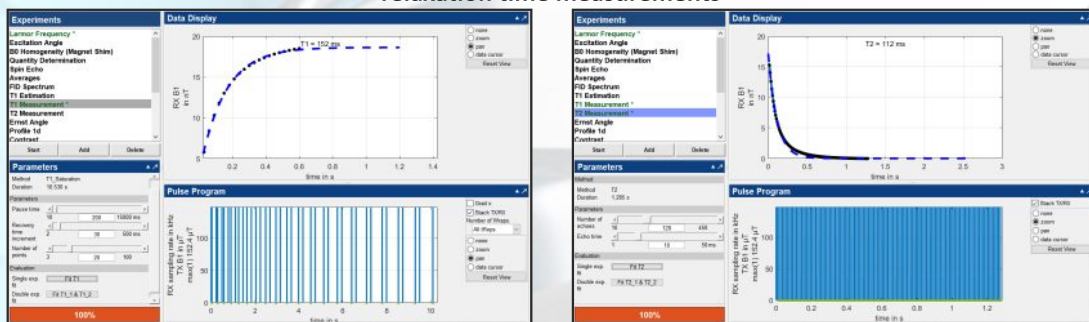


Teach-m is designed to guide you through all aspects of magnetic resonance tomography from NMR basics to advanced MRI methods. The possibility to manipulate experiments on runtime and directly visualize the results provides an unprecedented learning experience.

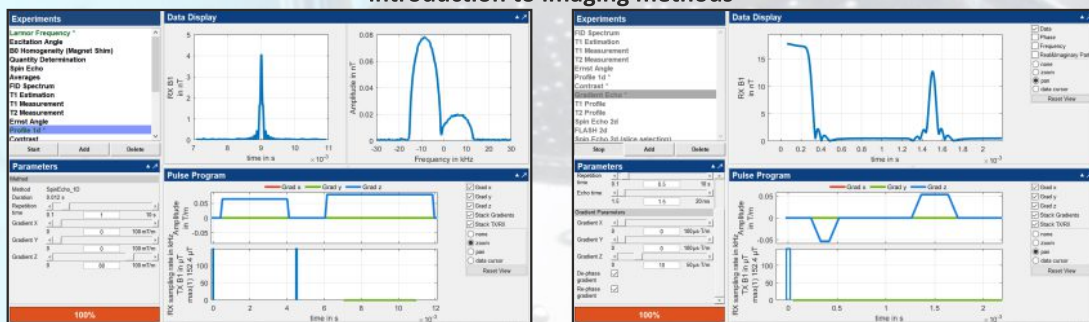
signal generation



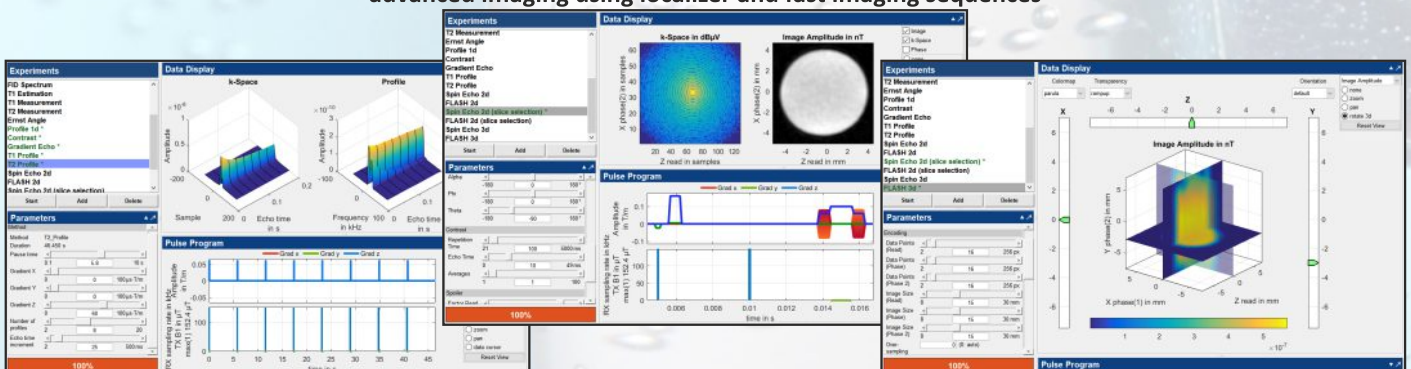
relaxation time measurements



introduction to imaging methods



advanced imaging using localizer and fast imaging sequences



accessories

Transport case



SoundBox



- Learn to recognize MR sequences by their sound.
- Stereo phone jack output:
left: read gradient
right: phase gradient
both: slice gradient

specifications

Control unit	
PC connection	USB-B
Connection of the imaging unit	RJ-45
Connection of the receiver/transmitter unit	BNC
Power supply	12 V DC, 2 A
Power supply unit (external)	100-240 V AC, 50/60 Hz, 2 A
Dimensions (length x width x height)	27 cm x 9.5 cm x 14 cm
Weight	2.3 kg

Magnet unit	
Field strength	~ 450 mT
Field homogeneity	< 50 ppm
Gradient strength	150 mT/m (x,y), 200 mT/m (z-direction)
Connection of the imaging unit	RJ-45
Connection of the receiver/transmitter unit	BNC
Dimensions (length x width x height)	27 cm x 25 cm x 14 cm
Weight	13.5 kg

Software	
Languages	English
Product license	can only be used with drive-m or drive-L
Data formats	DICOM, JPEG, CSV, TXT, RAW, STL
System requirements	
Operating system	Windows 10 (64-bit) Windows 11 (64-bit)
Processor	Intel i3 or similar
Display resolution	1280 x 720 or higher
RAM	4 GB or higher
Graphics	DirectX 9 compatible
Free HDD space	4 GB
Other requirements	USB 2.0



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