PURE DEVICES

MAGNETIC RESONANCE IN SCIENCE

benchtop MRI systems

research Lab

CUTTING-EDGE BENCHTOP MRI

research MRI system

- up to100 MHz
- built-in amplifiers
- easy to set up and operate
- open source MATLAB inferface
- integrated network analyzer

clock input for synchronization

general purpose digital I/Os

blanking signal for external RF amplifiers

Tx/Rx switch signal

2nd transmitter channel

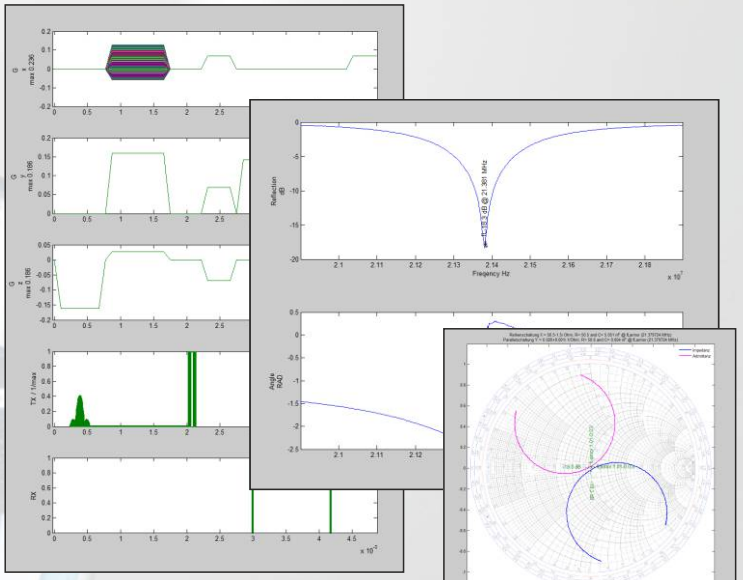
combined transceiver channel
with built-in RF amplifier up to 100 MHz

gradient output for external amplifier

built-in gradient amplifier

software

- complete control out of MATLAB®
- push-button experiments including source code
- real time network analyzer mode for RF-coil development
- no timing restrictions
- arbitrary gradients
- TX/RX with multiple frequencies/phases
- use MATLAB® for data analysis
- real time feedback



Sequence plot using MATLAB®

Network analyzer mode

high power amplifiers

DC-600
gradient amplifier

- 4 current controlled channels
- each 120 W (300 W peak)
- ± 60 Volts / 5 Amps

Rf-100
RF amplifier

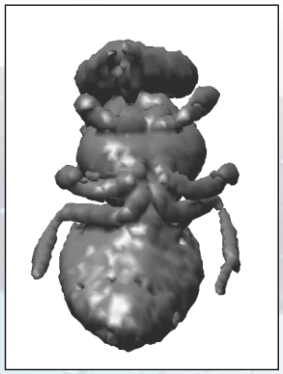
- 100 kHz to 30 MHz
- 100 Watt
- built-in RF switch

MRI magnet

magspec

lemon grass (2D SE)

rat kidney (2D GRE)



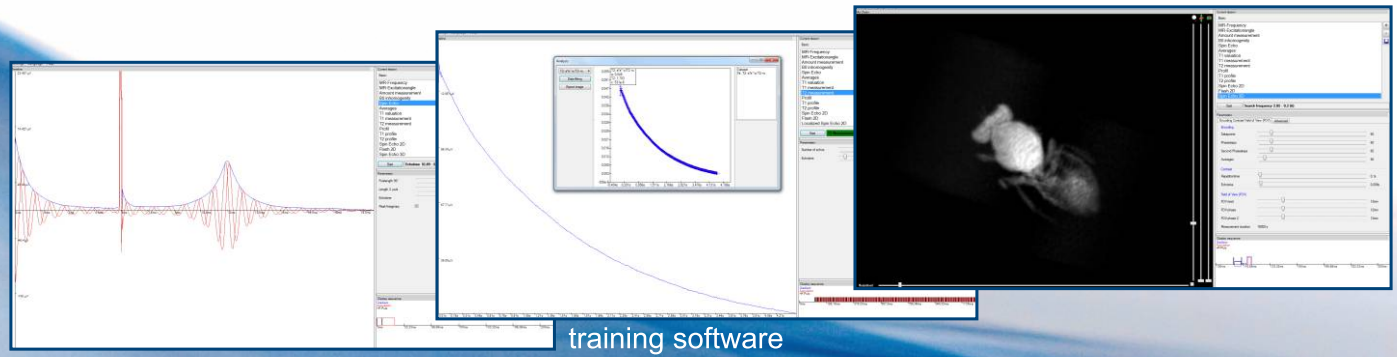
honey bee (3D SE)

- 0.5 Tesla
- 3D imaging
- built-in gradient coils
- sample size up to 10 mm
- high homogeneity
- robust construction
- handles for easy carrying

training MRI system

portable Lab

- full functional MRI system
- best learning experience
- easy to set up and operate
- real time control of experiments
- lessons and workbook included



training software

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