60 MHz benchtop NMR

The Magritek Spinsolve 60 NMR spectrometer sets a new standard for 60MHz benchtop NMR instruments. The Spinsolve 60 spectrometer provides high quality $^1$H and $^{19}$F NMR spectra in seconds, right where it is needed - at your laboratory bench.

Features
- $^1$H and $^{19}$F nuclei
- 1D and 2D NMR experiments
- Compact, benchtop size and weight
- No spinning or compressed gas
- No cryogens

Applications
- Research laboratories
- Industrial QA/QC laboratories
- Undergraduate education
Example spectra from the Spinsolve 60 benchtop NMR

1 M Ethyl Crotonate
- 1D, 4 scans, 1 minute
- COSY 38 minutes

No symmetrization

Carbon satellites (No spinning sidebands)

1 mM
1024 scans
4 hours

10 mM
64 scans
16 minutes

100 mM
16 scans
4 minutes

100 mM to 1 mM Ethyl Crotonate
Software

The Spinsolve software is beautifully simple and easy to use, with a clean and intuitive user interface.

**Easy experiment selection in the upper menu**

**Single button start**

**Progress bar**

**One-click processing buttons**

**Simple menu structure**
1. Click to choose nucleus
2. Click to choose experiment
3. Click Start (watch status on the progress bar)
4. Click any processing you wish to apply

**Automate experiments with scripts**
Using scripts the user can queue a series of experiments to run sequentially. A range of script templates are provided for easy modification. Scripts are displayed graphically to provide a clear picture of the sequence.

*This script shown here performs a 1D Proton experiment, followed by a JRES and then a COSY.*
Specifications

- Nuclei: $^1\text{H}$, $^{19}\text{F}$
- Operating frequency: 60 MHz ($^1\text{H}$)
- $^1\text{H}$ 50% Linewidth: < 0.5 Hz
- $^1\text{H}$ 0.55% Linewidth: < 20 Hz
- $^1\text{H}$ Sensitivity: >180:1 for 1% Ethyl Benzene
- Operating Temperature Range: 20° C to 25° C (68° F to 77° F)
- Dimensions: 58 x 43 x 40 cm (23” x 17” x 16”)
- Weight: 60 kg (120 lb)
- Stray Field: < 2 G all around system
- Power requirement: 110-240V AC

Pulse sequences available on the Spinsolve 60 spectrometer

<table>
<thead>
<tr>
<th>Proton</th>
<th>Fluorine</th>
</tr>
</thead>
<tbody>
<tr>
<td>1D Paramagnetic</td>
<td>1D Paramagnetic</td>
</tr>
<tr>
<td>2D COSY</td>
<td>2D F - COSY</td>
</tr>
<tr>
<td>2D TOCSY</td>
<td>2D F - JRES</td>
</tr>
<tr>
<td>2D JRES</td>
<td>2D FH - COSY</td>
</tr>
<tr>
<td>$T_1$, $T_2$</td>
<td>Reaction Monitoring</td>
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<tr>
<td>Reaction Monitoring</td>
<td></td>
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</tbody>
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Contact us now for a quote, to request a demo or to measure your samples

Email: sales@magritek.com
Website: www.magritek.com/contact-us

GERMANY        +49 241 9278 7270
UNITED KINGDOM +44 7468 529 615
UNITED STATES  +1 855 667 6835
NEW ZEALAND   +64 4 477 7096

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