The easyXES100™ is a simply-operated, but exceptionally powerful x-ray spectrometer. Using a robust “scissors drive” monochromator and a conventional x-ray tube source, this system gives fully research-quality XES (high resolution XRF) performance in measurement times comparable to those at many synchrotron beamlines. The system can be also be quickly user-reconfigured for transmission-mode XAFS, suitable for many research purposes in addition to rapid, ‘analytical’ XANES for industrial product testing or for undergraduate instructional labs.

<table>
<thead>
<tr>
<th>PRODUCT SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy range</td>
</tr>
<tr>
<td>Energy resolution</td>
</tr>
<tr>
<td>Energy scale stability</td>
</tr>
<tr>
<td>XES mode, flux</td>
</tr>
<tr>
<td>XAFS mode, flux</td>
</tr>
<tr>
<td>Bragg angle range</td>
</tr>
<tr>
<td>X-ray tube</td>
</tr>
<tr>
<td>X-ray optics</td>
</tr>
<tr>
<td>Optic alignment</td>
</tr>
<tr>
<td>Detector</td>
</tr>
<tr>
<td>Sample turret</td>
</tr>
<tr>
<td>Software</td>
</tr>
<tr>
<td>Timeline</td>
</tr>
</tbody>
</table>
**XES Results**

**Co Kβ**
- Tube Power: 50 W
- Integration: 10 s/pt
- Scan Time: 30 mins

**Co Kβ VTC**
- Tube Power: 50 W
- Integration: 10 s/pt
- Scan Time: 20 mins

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Ni Kβ

- Red: Battery material
- Blue: Ni metal
- Gray: NiO

Tube Power: 50 W
Scan Time:
35 mins (battery)
15 mins (standards)

Emission Energy (eV)

Cu Kα

- Blue: Cu Foil
- Red: Cu acac

Tube Power: 25 W
Scan Time:
5 mins (foil)
15 mins (acac)

Emission Energy (eV)
XAFS Results

Co Foam

Tube power: 25 W
Scan time: 1.5 hours
LiCoO2 Battery Material

Tube power: 25 W
Scan time: 1.5 hours

LiCoO2 Battery Material

$\text{k}^2X(\text{k})$ (Å$^{-2}$)

Wavenumber (Å$^{-1}$)
Tube Power: 25 W
Scan Time: 1.5 hours

- Blue line: Cu acac
- Red line: Cu Foil

Energy (eV)

μ(E)