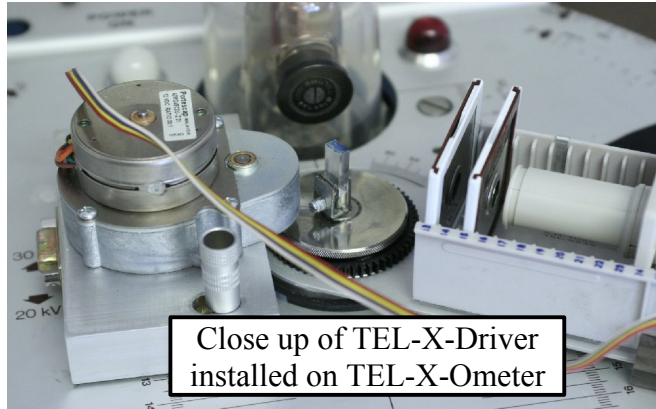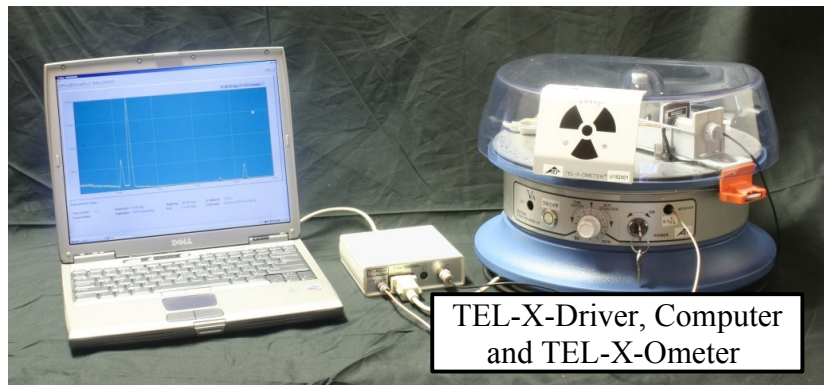# COMPUTERIZE YOUR TEL-X-OMETER

TEL-X-Driver

- Angular Resolution: 0.05° - 1.00°
- Time per step: 0.1 - 20 seconds
- Approximate data range 12° - 115°
- Calibrate using known LiF peak
- Zoom in on data
- Automatic scaling of Y axis
- GM tube voltage selectable
- X-ray tube current monitored
- Export data to spreadsheet for analysis
- Data saved every 30 seconds in temporary backup file

Close up of TEL-X-Driver installed on TEL-X-Ometer

The Computerized Drive Unit comes complete with everything you need to automate data taking with the TEL-X-Ometer. It provides power for the stepper motor, and connects directly to a GM tube, negating the need for a scalar or ratemeter. One can take data from 12 to 115 degrees with a maximum resolution of 0.05 degrees. The time per step is also selectable from 0.5 sec to 20 seconds per step. Scans can be obtained for all 4 of the crystals (NaCl, LiF, KCl, and RbCl) available for use with the TEL-X-Ometer. In addition one can obtain data scans of powders and foils.

The Computerized Drive Unit software allows the selection of scan angles, resolution, and time/step. The software can be used to calibrate the unit to an accuracy of .1 degree using the known Bragg angle of LiF. Data is automatically saved every few seconds thus preventing data loss during a long scan in the event of a power failure. Once the experiment is completed the software permits one to zoom in on the data and to add comments to the file. The data can also be exported to a spreadsheet for further analysis if desired.
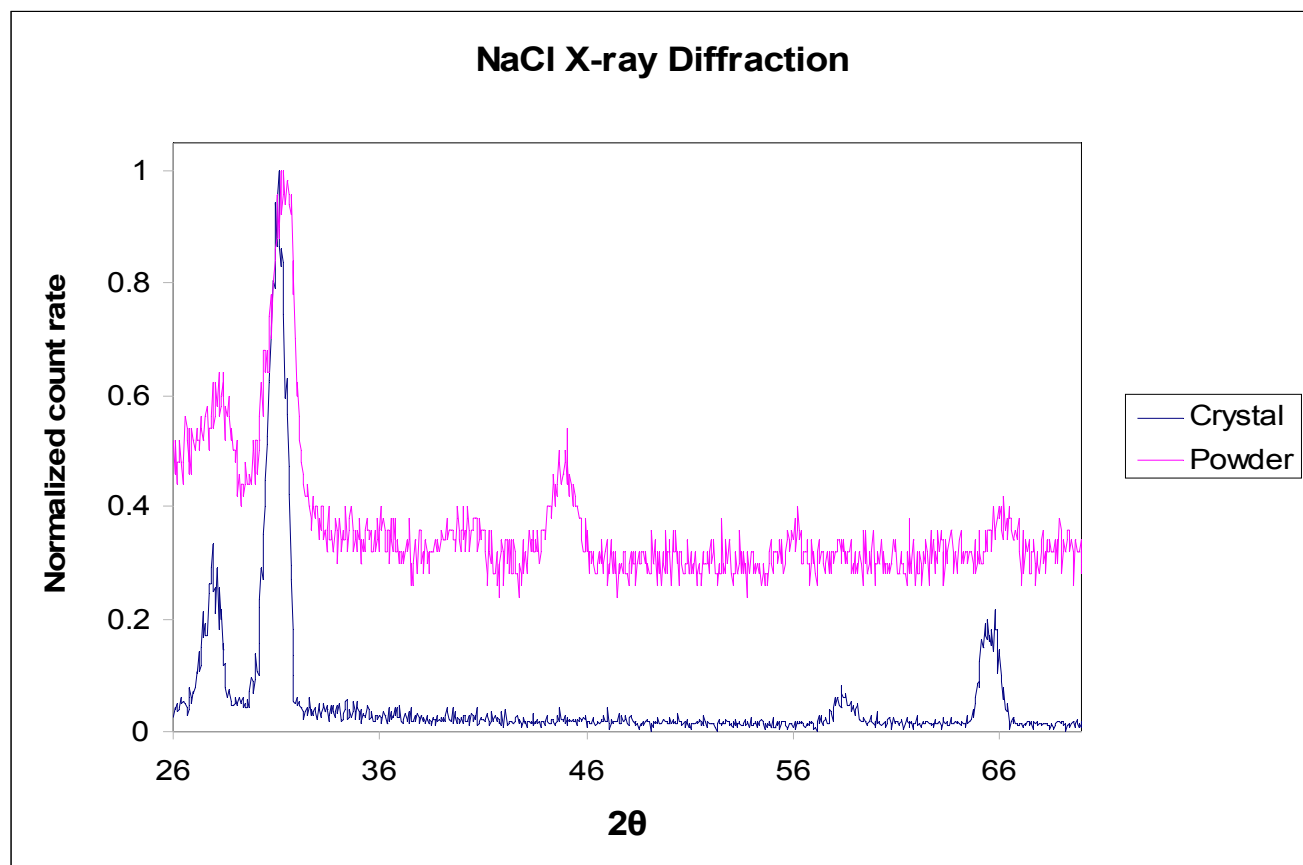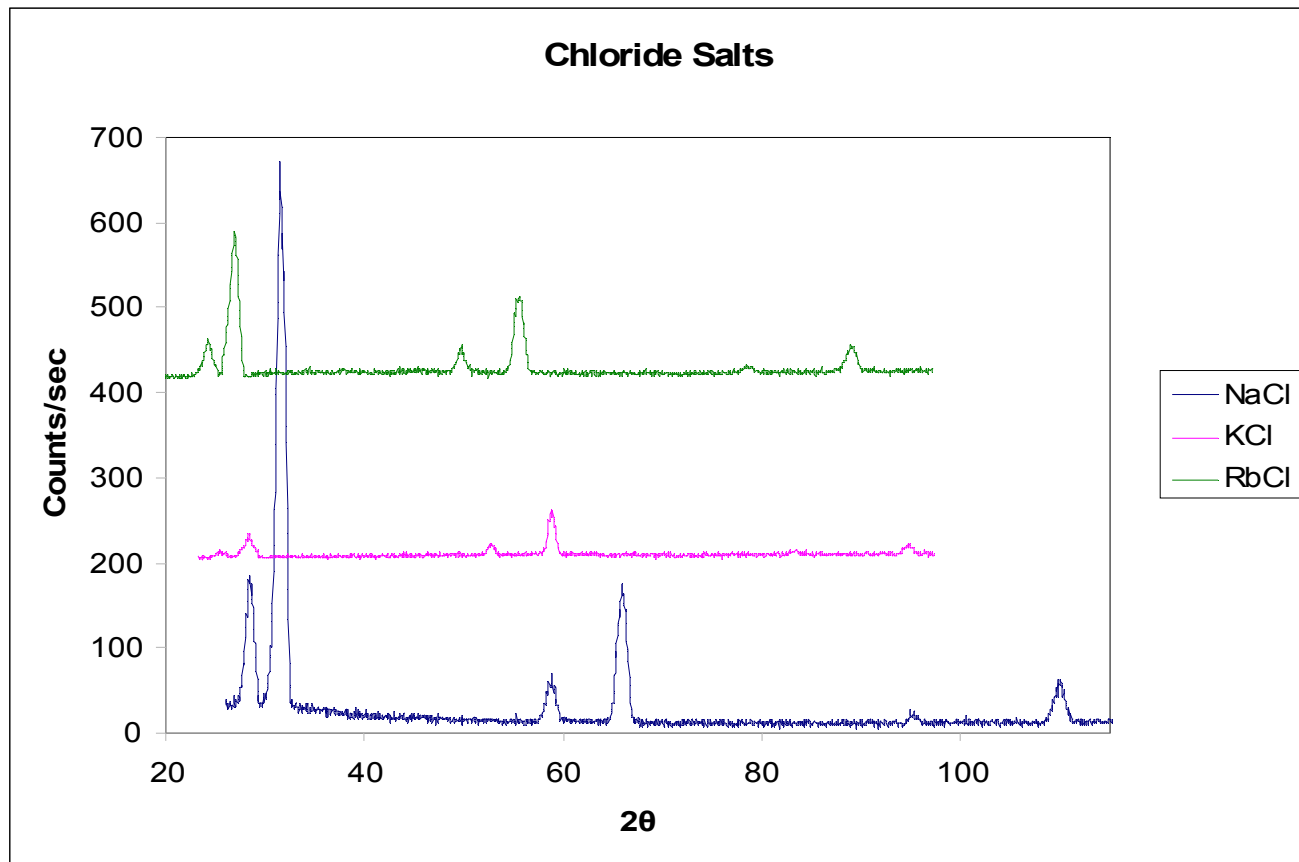

TEL-X-Driver, Computer and TEL-X-Ometer

TEL 218DRV $2,399.00

TEL-Atomic
Incorporated

Sample Data

Chloride Salts

NaCl X-ray Diffraction

Planck's Constant Determination

$y = 3.3239x - 57.78$
$h = 6.93 \times 10^{34} \, m^2 kg/s$
4.6% from accepted value
Data taken using
LiF at 20 KeV.

Counts/sec

2θ