

## Rigaku MiniFlex Operating Procedure

1. Turn on the water chiller power switch (chiller is in the back on the ground).
2. Switch on the breaker in the back.
3. Push the **“POWER”** reset button in the back.
4. When the **READY** light is on, push the **X-RAY “ON”** button on the front panel. If there is a buzz warning sound, cooling water is not flowing at appropriate rate (If so, switch off the breaker in the back and contact Dr. Zheng in room FW 326).
5. While the MiniFlex is warming up, turn on the controlling computer and its monitor.
6. When x-ray is ready, the large red warning light on top of the Miniflex is on and the small **X-RAY ON** LED is on in the front panel. The instrument is now in operational state.
7. Open the sample door, mount sample.
8. Click the **“Standard Measurement”** icon on the computer and start to measure your sample. For more information about sample measurement software, contact Dr. Zheng.
9. When measurement is finished, remove sample, push the **X-RAY “OFF”** button in the front panel. Switch off the breaker in the back. Turn off the computer and its monitor. Let the chiller run for 10 more minutes before turning it off (to allow the x-ray tube to be cooled down).

**Important:** In emergency situation, push the large red **“EMERGENCY”** button in the front and contact:

Dr. Chong Zheng, Faraday West 326  
Office Phone: 753-6871

Or

Dave Scharenberg, NIU Radiation Safety Officer

Office Phone: 753-1093  
Pager: (815) 761-5316

Emergency Medical Assistance: 758-3411