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**Subject: EIT Data Collection Instructions**

**Prepare the EIT Instruments:**

1. Refer to EIT cleaning guidelines and/or videos on the EIT website
2. For most applications, we suggest using an effective sample rate of 128 Hz (Samples per second)
  - On the Power Puck II, UviCure Plus II and LEDCure instruments, the instrument sample rate should be set to "Smooth Profiler" (128 Hz). Use "Smooth Off" for faster process speeds
  - On PowerMAP II, LEDMAP & PowerMAP use 128 Hz. Increase the rate for faster process speeds
  - The MicroCure sample rate is fixed at 2048 Hz. Make sure the MicroCure case halves are not touching metal

**Prepare the UV Source and Process Equipment for Data Collection:**

1. Perform system maintenance including the cleaning of reflectors (if present)
2. Allow the equipment to warm up and stabilize per the recommendations from the manufacturer. If you do not know what that time is, we suggest waiting 30 minutes for mercury- based sources
  - If you have a Standard radiometer and your UV system has multiple UV sources, measure one source at a time. Allow time for each individual source to warm up
  - If you have a Profiler radiometer, you should be able to use EIT's PowerView Software to isolate individual lamps for comparison
3. Disable any infrared (IR) /thermal processes
  - If that is not possible, add the instrument after the thermal or IR section
4. Disable the dispensing of any coating, ink or adhesive
5. Measure one unit at a time
  - Orientate the optics window and radiometer body in the same position each time
    - High and mid-range units have a silver optic window
    - Low range units have a milky white optic window
  - If comparing multiple EIT radiometers, make sure each radiometer (optics and body) is in the same position
  - **On a conveyor**
    - Align the units on the belt so that they measure the system in the same exact spot
    - Space the radiometers by at least 12 inches (30 cm) if sending one after the other
  - **On a chamber**
    - Place the unit in the exact same position and orientation every time that data is collected
    - Alternate radiometers
6. Check the board temperature of the unit by powering it on and putting it in "Run" mode. The unit will briefly display the internal temperature.
7. Prepare an area that allows the units to rest after running them to let them cool. Attempt to stay within the ambient temperature.

**Data Collection:**

1. At the end of the data run, upload or write down the data.
2. Record the Watt and Joule data for each run on the EIT Provided Spreadsheet.
3. Check ambient temperature and cool the unit(s) if necessary.
4. Repeat steps 1-3 two more times
5. If using a Profiler enabled unit, please also provide the files (\*.tdms or \*.eit) to EIT.