



UV Measurement and Process Control Instruments

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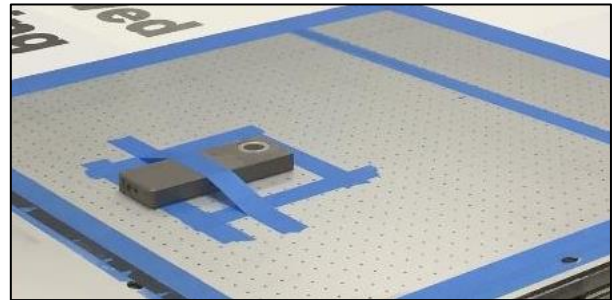
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Subject: EIT 2.0 LEDMAP Application Notes

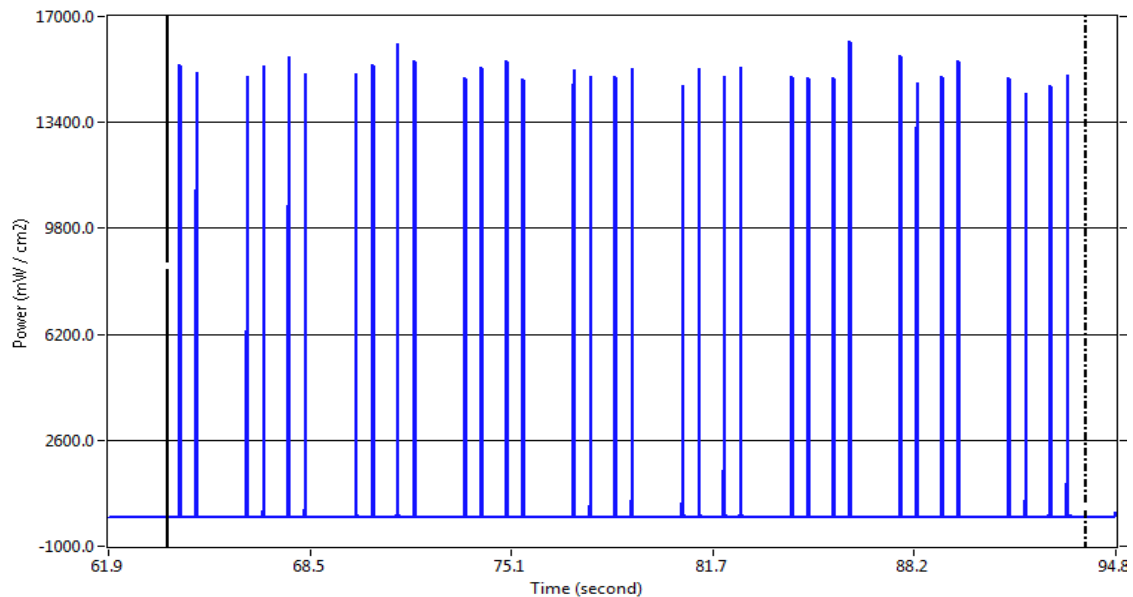
The LEDMAP is available as either a single (L-365, L-385, L-395 or L-405) or four (L-365, L-385, L-395 and L-405) band instrument. Based on PowerMAP II technology, the LEDMAP operates the same and features a user adjustable sample rate (128-2048 Hz) and thermocouple.

The LEDMAP was designed to support LED applications processing at fast speeds such as digital printers.

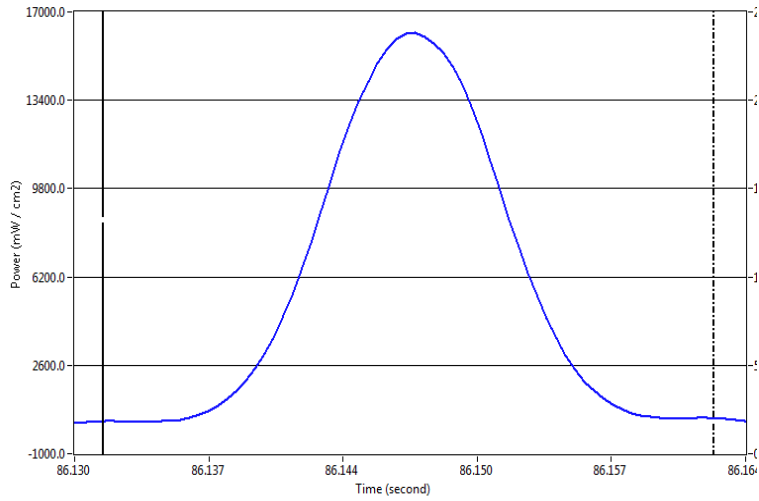
On fast moving applications such as digital printers, it is important to secure the instrument to the print bed, account for the height of the unit and make sure the print head is off. Most digital print systems have LEDs on either side of the print head. We suggest running the print head back and forth for a set number of passes and comparing the runs.



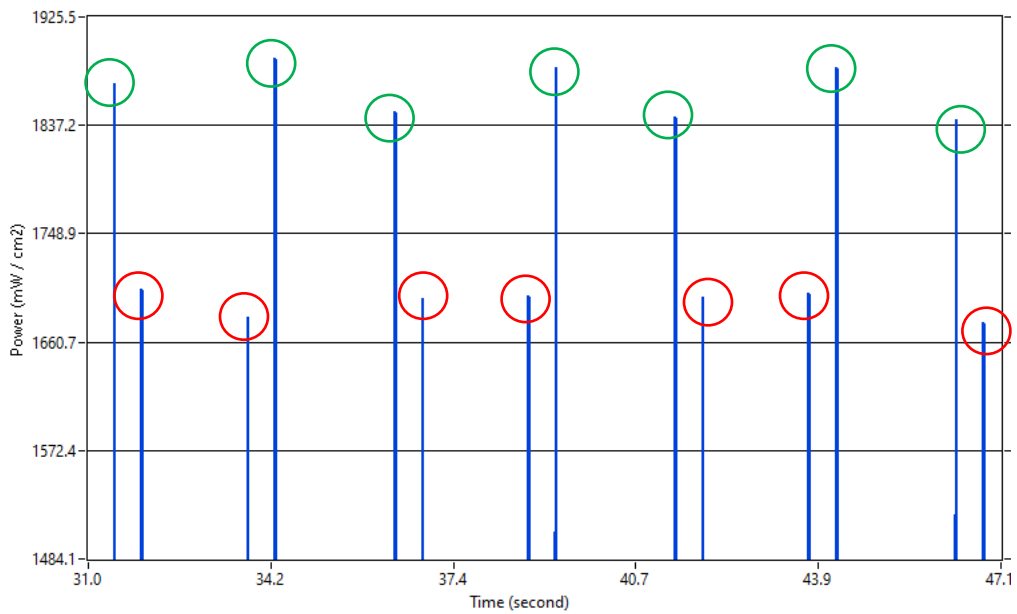
The LED optic window size and instrument sample rate will determine how many samples the LEDMAP 'sees'. The data below was collected at 400 feet per minute with the instrument sample rate set to 2048 Hz. The actual sample rate was 2130.5 Hz.



The graphic above shows 34 individual LED peaks collected over 30 second interval at a speed of 400 fpm at a sample rate of 2130.5 Hz. The consistency between the left and right LED in the above example is good.



PowerView III allows the user to zoom in on a single LED pass. The time between the cursors is 0.03 seconds. At a sample rate of 2130.5 Hz, this equates to 64 individual sample points on the irradiance profile.



Comparison of Left (green circles) and Right (red circles) LED sources show a difference between the two sources