



InternationalLight TECHNOLOGIES

Contact Information:

Maria Wooldridge
Marketing Manager
(978) 818-6180 X215
mwooldridge@intl-lighttech.com
www.intl-lighttech.com

International Light Technologies Announces Business Collaboration with Xenon Corporation

FOR IMMEDIATE RELEASE

Peabody, Massachusetts – July 10, 2017 - International Light Technologies (ILT) is pleased to announce that it has entered into a collaboration agreement with Xenon Corporation, whereby ILT's has developed a custom version of its ILT2400 hand-held radiometer to meet the specific needs of measuring Xenon's pulse light systems. The ILT2470XE UV Measurement System will be offered in combination with the Xenon pulsed light systems, including Xenon's new X-1100 low-cost benchtop Pulsed Light system, that enables researchers to more easily characterize new processes using XENON's proven technology.

XENON has over 50 years of Pulsed Light experience and applies its industry-leading expertise to the design and manufacture of high quality Pulsed Light systems, used in a wide range of production processes. Pulsed light offers a number of benefits over continuous light sources because it delivers more photons faster, and at lower temperatures. Ryan Hathaway, Sr. Applications Engineer from Xenon says, "to put it in laymen's terms, think of penetrating a block of wood with a nail: one could press a nail into the wood with a finger for 10 seconds without effect, or exert the same amount of energy and drive the nail instantaneously into the wood with a single strike of a hammer. Pulsed Light, like the hammer, delivers light at high peak power for deep penetration." In practice, pulsed light can be used in a variety of applications where intense energy is required, but where prolonged exposure to UV light can be harmful to the product.

While the benefits of using pulsed light are many, being able to accurately monitor and measure pulsed light is a challenge. "Typical light meters, even professional grade meters, can't react to rapid changes in intensity of the light, from zero/dark to peak. It's the equivalent of trying to see well on a dance floor when the light is strobing. The human eye is simply not able to adjust fast enough. It's the same for light meters that aren't specifically designed to do so," said Jill Fowler, Director of Systems and Sources at International Light Technologies.

Because of this challenge, Xenon was recommending their customers use oscilloscopes for process

validation. While this was effective in measuring the light, the data captured was incomplete and cumbersome to analyze. That's when Xenon reached out to ILT. "We knew ILT had extensive experience in making precision light measurement systems as we'd used the ILT1700 for over ten years. We had evaluated their ILT2400 hand-held meter and liked the ergonomic design and app-based interface", continued Hathaway, "but the unit couldn't measure pulsed light. We met with Jill Fowler at ILT and asked if their ILT2400 meter could be modified for our application."

"ILT has been developing and manufacturing precision light measurement systems for over 50 years, and we were excited for the opportunity to customize a solution for Xenon", said Jill Fowler. "Validation is an important part of any process, and it is always best practice to verify and record intensities before each use," Fowler continued.

Developing a solution for Xenon was two-fold. First, modifications were made to increase the speed of the meter. Second, an interface was created to capture the key pieces of data, including Flash Count (or number of flashes), Irradiance and Dose. The custom "Flash App" on the meter's home screen was designed to offer Xenon customers an easy means of verifying the UV output of their pulsed lamp systems, over a very broad range of intensities and pulse rates, for maximum versatility. "Because all of our design, development and manufacturing is done on-site at our offices in Peabody, Massachusetts, we were able to come up with a solution for Xenon in a relatively short amount of time," concluded Fowler.

The ILT2470XE UV Measurement System is available now. Units can be ordered directly from ILT. Order on line at www.intl-lighttech.com or by calling ILT Systems Customer Service at 978-818-6180 x116.

About International Light Technologies (ILT):

For over 50 years ILT has provided direct and OEM customers in industrial, academic and research markets with light measurement and detection systems, and a broad range of off-the-shelf and customized specialty light sources. The ILT Systems Division manufactures light meters, radiometers, spectrometers and spectroradiometers as well as comprehensive lines of detectors, filters, input optics and accessories. The ILT Sources Division supplies light sources that include UV-LEDs, discreet and surface-mount LEDs, UV-Visible-IR lamps, specialized replacement lamps and lamp power supplies. ILT is ISO 9001 certified and ISO/IEC 17025 accredited. For more information, visit www.intl-lighttech.com