

XENON™ S-2210

High-Energy Pulsed Light System

Highest Energy with Better Coverage and Best Uniformity

When it comes to delivering photonic energy, nothing compares to XENON's S-2210 system. This state-of-the-art tool is for researchers and process developers working with nano-materials on heat-sensitive substrates that require rapid sintering, curing or annealing over a wide area with high uniformity.

The Intense Pulsed Light system is designed to help develop effective process protocols for a wide range of industrial applications such as curing, semiconductor wafer treatment, printed electronics sintering and rapid annealing. Benefits of using Pulsed Light is that it is a low-temperature process that can offer a significant increase in throughput, which is typically not possible when using traditional oven-based thermal curing or mercury UV lamps.

The S-2210's compact design makes it ideal for developing a process, and then scaling for larger areas or higher throughput by the integration of multiple identical racks.

KEY APPLICATIONS

- Printed Electronics
- Semiconductors
- Displays
- Data Storage
- Material Research
- Device Manufacturing



Lamps to Address Your Specific Needs



The S-2210 is typically configured with an LH-150 lamp housing for wide area exposure (150mm x150mm). However, alternate lamp housing options are available to provide different optical footprints and energies. The lamp housings are stainless steel, air cooled and designed to be easily serviceable and mounted up to 6 meters away from the electronics rack.

The XENON S-2210 delivers Pulsed Light which has an optical spectrum ranging from the deep UV to Infrared. Lamps are available with different spectral cutoffs to better match the light with the process requirements.

SYSTEM HIGHLIGHTS

- Max Pulse Energy Output of 18kJ
- User-Friendly Touch Screen Interface
- Unprecedented Control of the Pulse Features
 - Pulse Width 100µs to 5000µs
 - Voltage Adjust 2KV to 3KV
 - Single Pulse, Burst, Sequence, Continuous
- Large Optical Footprint (150mm x 150mm)
- Uniformity 3%

Versatility and easy to use, a winning combination

The operator touch screen allows easy programming of simple to complex pulse profiles in order to deliver the precise optical energies desired. Each pulse pattern, often called a “recipe,” can be used to optimize a process in terms of thermal management, sintering or curing. These “recipes” can be stored and recalled at any time.



The S-2210 is part of the XENON family of Pulsed Light solutions

XENON has pioneered Pulsed Light technology for more than 50 years, and is a leading provider of innovative, high-performance systems for industrial, medical and research applications. XENON sintering solutions rapidly sinter conductive inks without temperature increase. This makes it possible to work with heat-sensitive flexible substrates such as PET, paper, cloth and other plastics using inks based on silver, gold or copper.

XENON has been developing groundbreaking applications for Pulsed Light since the company was founded, including benchtop R&D sintering systems like the X-1100 and R2R production-line sintering systems with speeds up to 70 feet per minute. XENON also produces high-performance systems for sanitization, UV curing, annealing and food safety. With thousands of systems operating on industrial production lines worldwide, XENON has been established as the expert for Pulsed Light solutions for companies needing innovative answers to their complex process development and production challenges.

Contact XENON today to learn more about the S-2210 High-Energy Pulsed Light System.



XENON Corporation
37 Upton Drive
Wilmington, MA 01887-1018

Telephone 978-661-9033
Toll Free 800-936-6695 (U.S.A. only)
Fax 978-661-9055
Web www.xenoncorp.com

