

Xenon Light Sources



PX-2 and HPX-2000



Xenon light sources offer very high intensity in the UV and are useful for absorbance, fluorescence or reflectance measurements.

The PX-2 pulsed xenon source has high intensity with a lower duty cycle, making it ideal for measurements where high intensity UV light can damage the sample. It has high flash rate, short-arc xenon lamp with output from 220-750 nm.

The HPX-2000 is ideal for reflectance or fluorescence spectroscopy applications where often a strong source is required.

The HPX-2000-HP-DUV light source is much more intense, especially in the UV region. Driven by a 75 W source, the HPX-2000-HP-DUV provides output intensity that is almost 4x higher across the entire range compared to the output of the HPX-2000.

PRODUCT OVERVIEW

Pulse-to-Pulse Stability	Excellent performance for long-duration experiments
High Power Option	HPX-2000-HP-DUV has nominal bulb of 75 W
Adjustable Flash Rate	Optimize measurements of light sensitive samples
Simple Experiment Setup	Control of flash rate and synchronization via software

Contact our technical sales team to learn more about how our light source solutions can meet your spectroscopy requirements.

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Specifications	PX-2 Pulsed Xenon Lamp	HPX-2000	HPX-2000-HP-DUV
Wavelength Range	220-750 nm	185-2500 nm	185-2000 nm
Source	Pulsed Xenon	Continuous Xenon	Continuous Xenon
Nominal Bulb Power	NA	35 W	75 W
Typical Output Power	9.9 W (average)	1.52 mW	6.13 mW
Source Lifetime	10 ⁹ pulses (Estimated 230 days continuous operation @ 50 Hz pulse rate)	1000 hours	1000 hours
Warm-up Time	NA	25 minutes	30 minutes
Operating Humidity	5-95% without condensation at 40 °C	5-95% without condensation at 40 °C	5-95% without condensation at 40 °C
Operating Temperature	5 °C – 35 °C	5 °C – 35 °C	5 °C – 35 °C
Shutter	Yes	Yes	Yes
Fiber Connector	SMA 905	SMA 905	SMA 905
Integrated Filter Holder	No	Yes	No
Dimensions	14 cm x 10.5 cm x 4 cm	14.5 x 16.5 x 26 cm	14.5 x 16.5 x 26 cm
Weight	4 kg	6 kg	6 kg
Power Consumption	1.3 A @ 11V @ 220 Hz 100 mA @ 12V @ 10Hz	50 W	105 W
Power Requirements	85-264 V 50/60 Hz	85-264 V 50/60 Hz	85-264 V 50/60 Hz
Trigger/Shutter Input Connection	SUB-D-15 pin	SUB-D-15 pin	SUB-D-15 pin
Trigger/Shutter Input Signal	TTL 1-220 Hz	TTL Up to 2.5 Hz maximum	TTL Up to 2.5 Hz maximum

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