

 Xenon (Xe) Arc Lamps[Products](#) / [Light Sources](#) / [Incoherent Light Sources](#) / [Arc Lamp Light Sources](#) / [Xenon \(Xe\) UV-IR Light Sources](#) / [Xenon Arc Lamps](#)

Xenon (Xe) Arc Lamps

Xenon (Xe) arc lamps have a relatively smooth emission curve in the UV to visible spectrums, with characteristic wavelengths emitted from 750-1000 nm. Their sun-like emission spectrum and ~5800 K color temperature make them a popular choice for solar simulation, as well as absorption and fluorescence and source spectral scanning applications.



- Relatively Smooth Emission Curve in the UV to Visible
- Ozone Free, UV Enhanced, and High Stability Versions
- Sun-like Emission Spectrum

[See All Features](#)

Compare	Model	Availability	Price
	6251NS Xenon Arc Lamp, 75 W, 0.25 x 0.5 mm Effective Arc Size	In Stock	\$2
	6263 Xenon Arc Lamp, 75 W, Ozone Free	In Stock	\$477
	6257 Xenon Arc Lamp, 100 W, Ozone Free	In Stock	\$6
	6252 Xenon Arc Lamp, 100 W, Ozone Free, Integrated Full Reflector	In Stock	\$1,197
	6254 Xenon Arc Lamp, 150 W, UV Enhanced	In Stock	\$8
	6255 Xenon Arc Lamp, 150 W, Ozone Free	Contact Us	\$717
	6256 Xenon Arc Lamp, 150 W, 0.5 x 1.5 mm Effective Arc Size	In Stock	\$8
	6259 Xenon Arc Lamp, 300 W, 0.7 x 2.4 mm Effective Arc Size	In Stock	\$946
	6258 Xenon Arc Lamp, 300 W, Ozone Free	In Stock	\$8
	6278 Xenon Arc Lamp, 450 W, UV Enhanced	In Stock	\$1,437

Xenon (Xe) Arc Lamps

Features

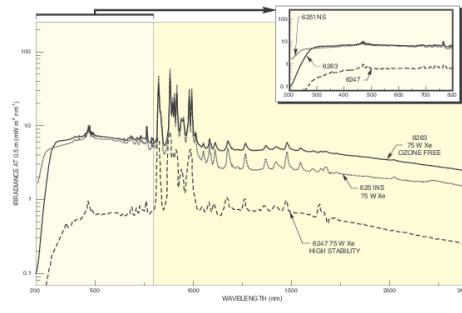
Ozone Free Xenon Lamps

UV wavelength emissions below ~260 nm create toxic ozone. Ideally, an arc lamp is operated outdoors or in a room with adequate ventilation to protect the user from ozone created. If this is not possible, an Ozone Eater should be used. However, if the application does not require wavelength emission below ~260 nm from the arc lamp, using an ozone free lamp is a convenient option. An ozone free lamp is coated to remove

High Stability Xe Lamps

High stability Xe arc lamps are made of a higher quality cathode than typically used for xenon arc lamp construction. As a result, no arc wander occurs, allowing the lamp to maintain a consistent output intensity throughout its lifetime.

75 W Xenon (Xe) Lamps



6247 , 6251NS , 6263 Spectral Irradiance

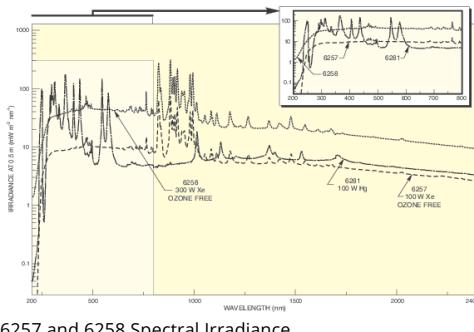
UV-Enhanced Xenon Lamps

When additional UV output from the xenon lamp is required, UV-enhanced lamps are available. These lamps provide the same visible to NIR performance of an standard Xe arc lamp while providing high intensity UV output as well.

Xenon Lamp Shelf Life

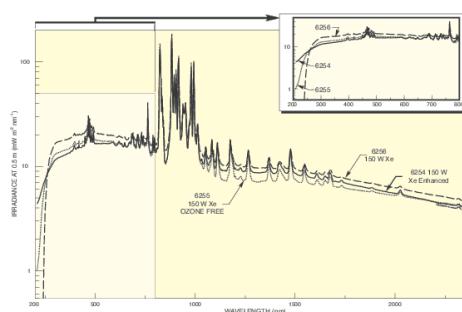
We recommend purchasing replacement xenon lamps only as needed. Xe arc lamps do have an unspecified shelf life, which over time can cause the end cap seals to leak and degrade lamp performance. Newport strives to keep Xe bulbs in stock to reduce lead times when ordering a replacement.

100 W and 300 W Ozone Free Xenon Lamps



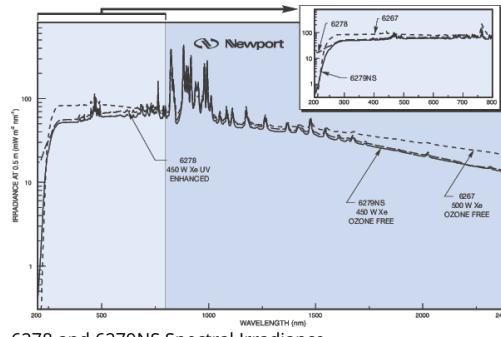
6257 and 6258 Spectral Irradiance

150 W Xenon (Xe) Lamps



6254, 6255 and 6256 Spectral Irradiance

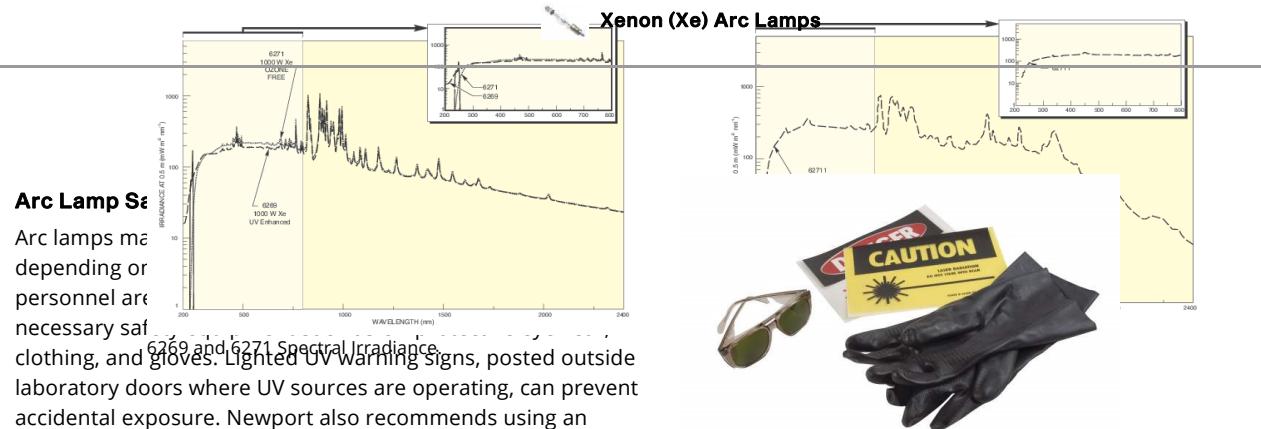
450 to 500 W Xenon (Xe) Lamps



6278 and 6279NS Spectral Irradiance

1000 W Xenon (Xe) Lamps

1600 W Ozone Free Xe Lamp

**Arc Lamp Safety**

Arc lamps may produce UV radiation depending on the lamp model. Personnel are advised to use appropriate safety clothing, such as long-sleeved shirts and pants, and gloves. Lighted UV warning signs, posted outside laboratory doors where UV sources are operating, can prevent accidental exposure. Newport also recommends using an electronic shutter to block the beam when the source is not in use but remains turned on. Alternatively, the beam can be safely contained by using beam tubes or fiber optic cables to deliver the light to a sample. It is recommended to vent the ozone that is produced by some lamp models to the outside or use an Ozone Eater.

Compatibility

We offer complete light source systems as well as components for you to easily build your own systems.

When used with a Q Series lamp housing, the system will need the following components:

- Lamp
- Lamp Socket Adapter
- Lamp Housing
- Condensing Lens Assembly
- Rear Reflector
- Interface Kit
- Power Supply and appropriate cables

Lamp Housing	Lamp Model	Lamp Socket Adapter	Condensing Lens Assembly Options	Rear Reflector	Interface Kit	Power Supply	Cable	Complete System
60000	6251NS	60014	60006	60005	60025	69907	70050	Low Power Q Series Xe
	6257		60008					
	6263		60076 67017					

When used with a Research Series lamp housing, the system will need the following components:

- Lamp
- Lamp Socket Adapter
- Lamp Housing (includes rear reflector and condensing lens assembly)
- Power Supply and appropriate cables

Lamp Housing Options	Lamp Model	Lamp Socket Adapter	Power Supply	Cable	Complete System
50-500 W	6251NS	66150	69907	70050	Low Power Xe
	6263				
	6257				
	6255				
	6254				

*70052 cable set is included in 69921 and 69923 housing.

Lamp Housing Options	Lamp Model	Lamp S Adapter	Xenon (Xe) Arc Lamps		Complete System		
			Power Supply	Cable			
	6256	66152	69911	70052*	-		
	6259	66160			Medium Power Xe		
	6258						
450-1000 W	6279NS	6163	69920	70052*	High Power Xe		
	6278						
	66921						
	66923	6271					
		6269					

*70052 cable set is included in 69921 and 69923 housing.

Accessories

UV Safety Equipment

Compare	Description	Drawings, CAD & Specs	Avail.	Price
	49123 UV Protective Gloves, Size 8, Black Neoprene, Set of 3		In Stock	\$76.80 US
	49121 Ultraviolet Protective Gloves, Size 10, Black Neoprene, Set of 3		In Stock	\$72 US
	66087 Ozone Eater™, 110/220 VAC, 50/60 Hz		1 Week	\$1,437.60 US
	49126 Safety Goggles, UV Light Sources, Flexible Frame		In Stock	\$82.80 US

©2021 Newport Corporation. All rights reserved.

Support: +6:

[Terms](#) [Privacy](#) [California Transparency Act](#)