

Light Sources

Variety of different light sources for UV-VIS-IR operation. All sources are supplied complete with housings, integrated refocusing mirrors, power supplies, mounting flanges for IsoPlane, SpectraPro and TriVista entrance slits. Most include cooling fans for stable operation (except TS-425).

Available Sources

Deuterium

Deuterium is a light source that is used when spectroscopy in the UV is required. The deuterium is a low-pressure gas-discharge light source which produces a continuous spectrum.

Tungsten-Halogen

Tungsten-halogen is used as a general light source. It is comprised of a compact, transparent container which contains a tungsten filament, a small amount of halogen, and inert gas. The tungsten filament in combination with the halogen causes a halogen cycle – a chemical reaction which rejuvenates the filament by redepositing evaporated tungsten.

Xenon

Xenon is a light source which produces bright white light, mimicking natural sunlight. It produces light by passing an electric current through ionized xenon gas in a high-pressure chamber, making it a specialized form of gas discharge lamp.

Family Models

Model	Model#	Description	Available for
Deuterium	DS-421	30-watt light source, 110 V, provides useful UV continuum starting at ~190 nm and continuing out to ~350 nm. Negligible visible light output helps to minimize stray light.	IsoPlane, SpectraPro, TriVista
Deuterium	DS-421-220	30-watt light source, 220 V, provides useful UV continuum starting at ~190 nm and continuing out to ~350 nm. Negligible visible light output helps to minimize stray light.	IsoPlane, SpectraPro, TriVista
Tungsten-Halogen	TS-425	30-watt, 110 V light source with a DC power supply	IsoPlane, SpectraPro, TriVista
Tungsten-Halogen	TS-425-220	30-watt, 220 V light source with a DC power supply	IsoPlane, SpectraPro, TriVista
Tungsten-Halogen	TS-428	250-watt, 110 V light source, includes variable brightness control, forced-air cooling, and AC power supply.	IsoPlane, SpectraPro, TriVista
Tungsten-Halogen	TS-428-DC	250-watt, 110 V light source features a regulated DC power supply plus variable brightness control.	IsoPlane, SpectraPro, TriVista
Tungsten-Halogen	TS-428-220	250-watt, 220 V light source includes variable brightness control, forced-air cooling, and an AC power supply	IsoPlane, SpectraPro, TriVista
Tungsten-Halogen	TS-428-220-DC	250-watt 220V light source features a regulated DC power supply plus variable brightness control.	IsoPlane, SpectraPro, TriVista
Xenon	XS-433	75-watt, 100 V light source that features broad wavelength output with small source size, permitting more efficient light delivery to a spectrometer. This source provides useful continuum from 190 to 750 nm, with declining output out to 2.7 μm .	IsoPlane, SpectraPro, TriVista
Xenon	XS-433-220	75-watt, 200 V light source that features broad wavelength output with small source size, permitting more efficient light delivery to a	IsoPlane, SpectraPro, TriVista

		spectrometer. This source provides useful continuum from 190 to 750 nm, with declining output out to 2.7 μm .	
Deuterium & Tungsten-Halogen	TDS-429	Dual light source combines 30-watt, 110 V deuterium and tungsten-halogen lamps in the same housing for output useful from 190 nm to 2.5 μm . It includes a manually controlled source-selection mirror, power supplies, and forced-air cooling fan.	IsoPlane, SpectraPro, TriVista
Deuterium & Tungsten-Halogen	TDS-429-220	Dual light source combines 30-watt, 220 V deuterium and tungsten-halogen lamps in the same housing for output useful from 190 nm to 2.5 μm . It includes a manually controlled source-selection mirror, power supplies, and forced-air cooling fan.	IsoPlane, SpectraPro, TriVista