

Teksan Co.

Light Spectroscopy Instruments

Address

Unit 104, Technology Units
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Contact information

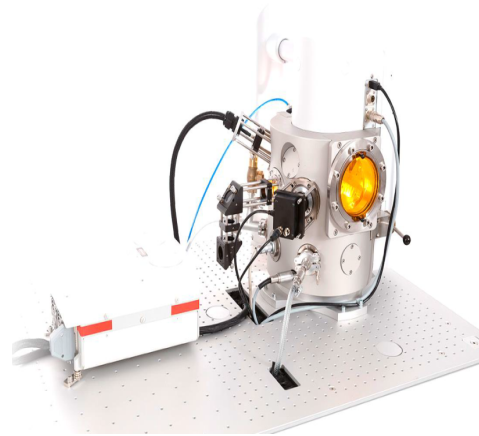
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For more information on any of
our products or services please
visit us on the Web.

LIBS (Laser Induced Breakdown Spectroscopy) Elemental Analysis



Application Areas

- Aluminum alloys
- Cement and concrete
- Coal
- Coal ashes
- Combustible gases such as fuel/air mixtures
- Copper alloys
- Electrolytes, battery materials, fuel cells
- Fertilizer
- Food
- Food supplements
- Gases, exhaust gases
- Glasses
- Glass melts
- Magnesium alloys
- Metal melts:
 - ◦ Aluminum
 - ◦ Sodium
 - ◦ Steel
 - ◦ Zinc
- Metal scrap
- Minerals
- Mineral melts, solidified
- Mineral ores
- Gemstones
- Nuclear and radioactive materials
- Oil, oil shales, and sands
- Oil residues
- Organic and inorganic photovoltaic materials
- Paper and coated paper
- Particulate matter:
 - ◦ Aerosols and air-borne particles
 - ◦ Coarse grained powder
 - ◦ Loose fine-grained powder
 - ◦ Particles
- Pharmaceutical substances
- Polymers and technical polymers
- Polymer waste
- Refractory materials
- Rubber
- Silicon, metallurgical and solar grade silicon
- Slag from steel production
- Steel
- Steel metal welds
- Thin film solar cells
- Waste electrical and electronic equipment (WEEE)
- Wastewater
- Wood and wood waste

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Features and Specifications

Excitation Laser	QS ND:YAG
Wavelength	1064 nm
Pulse Energy	Up to 100 mj
Pulse Width	10 nm
Repetition Rate	10 Hz
Laser Spot Diameter	50 - 200 μ m, Objective Dependent
Detector	Cooled CCD
Cooling	-15 $^{\circ}$
Spectrograph	Czerny Turner
Wavelength Range	200 – 980 nm
Grating	Three Grating
Spectral Resolution	1- 0.5 nm, Grating Dependent
Motion stage	Motorized XYZ
XYZ stage travel range	X=155 mm, Y=95 mm, Z=50 mm
XYZ joystick	Yes
Video monitoring	CMOS, max. 2,560 x 1,920 (5 megapixels)
Lightning	Yes
Pilot laser wavelength	632 nm
Dimension	60*80*120 cm ³
Weight	70 Kg

SERVICES AVAILABLE

Technical Support

Installation and Setup

Maintenance

Application Support

Hardware Support

Guaranteed Warranty