

DATASHEET

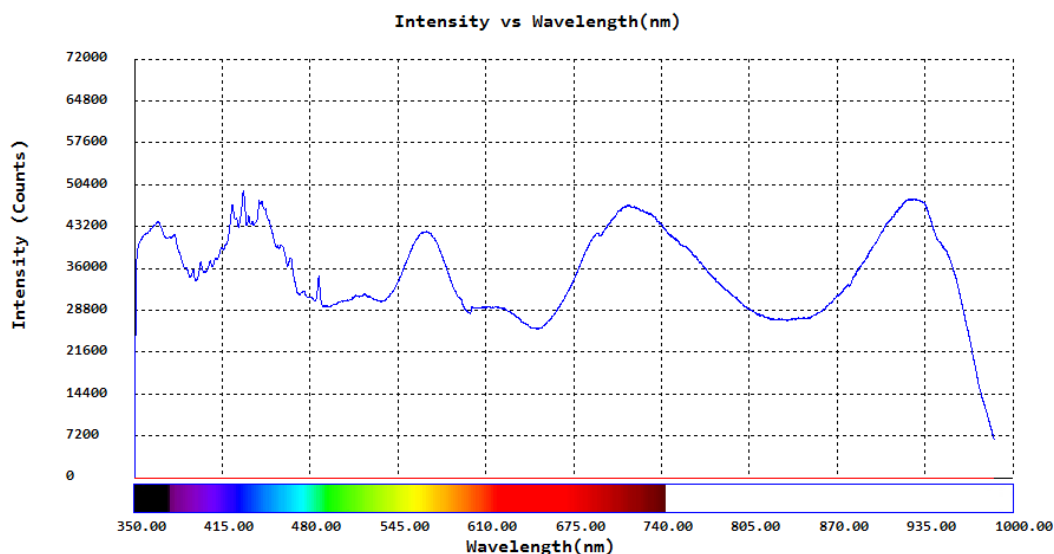
NIR Enhanced Broadband Light Source GL-D2T-V01



GL-D2T-V01 broadband light source, produced by Glydden Science Pte Ltd, can produce a continuous spectrum within a single optical path. It covers from 200nm to 2500nm (depending on the filters used) including UV, visible and near IR bands. We use a unique 3 in 1 design (patented) to combine the light from one deuterium lamp and two tungsten lamps together to get a balanced, smooth, enhanced near IR and broadband spectrum. 652nm D- α line and 486nm D- β line from the deuterium lamp are eliminated from this broadband spectrum.

Cooperating with a spectrometer employing a CCD or a CMOS sensor, GL-D2T-V01 can carry out spectrum analysis in a quite large dynamic range without saturation of the CCD or CMOS. Meanwhile, GL-D2T-V01 has a good stability of light output as well, due to a unique design of thermal dispersion.

The output power of the deuterium can be adjusted using some filters. The output power of the tungsten lamps can be adjusted using variable resistors through knobs. In addition, a filter is available for GL-D2T-V01 by choosing a filter holder which accepts the filters with 3mm in thickness and 12.7mm in diameter. A typical spectrum as above is measured by the GLA600-UVN fiber optic spectrometer (using CCD detector) fabricated by Glit Technologies (Shenzhen) Pte Ltd.



Technical Specifications

ITEMS	Deuterium Lamp	Tungsten Lamp 1	Tungsten Lamp 2
Wavelength	300-500nm depends on the filter used	400-2500nm depends on filter used	850-2500nm depends on the used
Warm-up Time	20min	20min	20min
Lamp Power	Anode: max75VDC/300mA Filament operation: 1VDC, 1.8A Filament warm-up: 2.5VDC, 4A	20W/12V	20W/12V
Lamp Lifetime	2000hrs	2000hrs	2000hrs
Output Stability	0.16%	0.14%	0.22%
Current Drift	±0.05%/hr after 30min		
Voltage Drift		<0.5%	<0.5%
Color Temperature		3000K	3000K
Input Power	Operation: 220V/50Hz, 0.37A, 83.6W		
Tungsten Lamps Adjustable Range	0-100%		
Light Output Connector	SMA905 fiber connector		
Working Temperature	-10 °C-50 °C		
Dimensions	322mmx203mmx115mm		
Weight	About 6 Kg		

Need to customize your product? Our team of experienced designers can help you. Kindly contact us:

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