

# THL Tungsten Halogen Light Source

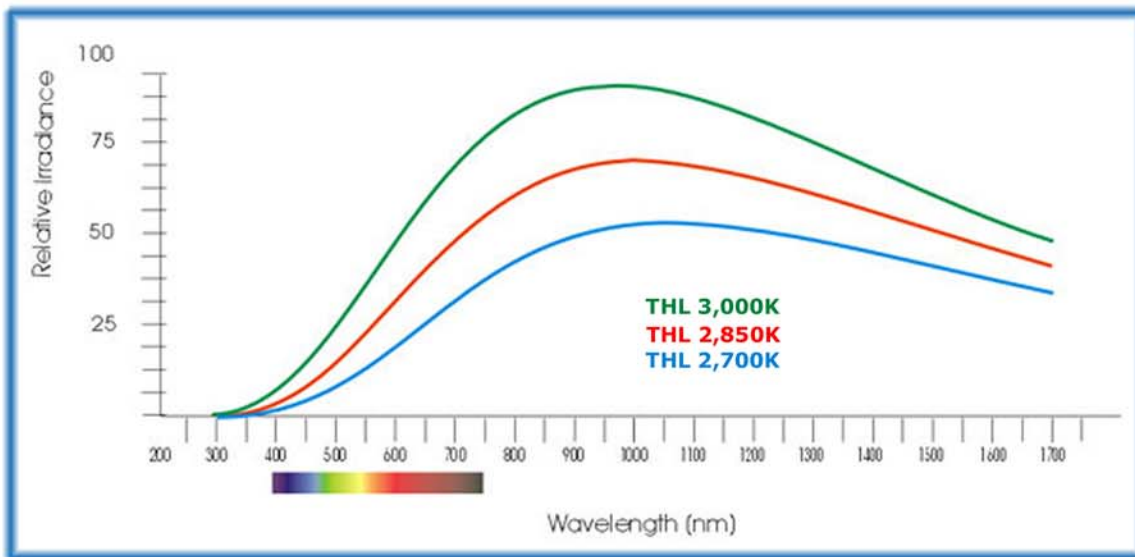
The THL Tungsten Halogen light source is a compact stabilized halogen fan-cooled light source that can be used for the visible range and the near infrared. The THL features adjustable focusing of the SMA connector to maximize light coupling into a fiber or fiber bundle with a diameter of up to 600  $\mu\text{m}$ . A filter slot accepts 1" round or 2" x 2" square filters up to 3 mm thick. The lamp stability is achieved by current stabilization. A fan regulates the airflow around the heatsink to optimize the operation temperature.

The SMA-connector input into any fiber can be optimized by changing the focus. Bulb replacement is easy. With an internal jumper the optical output energy can be controlled. At "low" setting the source acts as a long life source with over 2000 hrs life time.



At "medium" setting the color temperature goes up and the expected life time is about 1000 hrs. The "high" setting gives max output in the blue range, but reduces bulb life time to > 1000 hrs (see fig 8).

The THL has an internal TTL shutter\*\*, that can be controlled from the CDI Spec32 software.



Spectral output of THL Tungsten Light Source



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Control Development, Inc. also manufactures integrated spectroscopy systems for: UV-VIS, NIR, RAMAN and OEM customers.



NIR WITH USB



NIR



PORTABLE



RAMAN



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## Specifications:

	THL (Standard)	THL (Long Life)	THL (High Power)
<b>Power requirement</b>	24 VDC/1.25A	24 VCD/1.25A	24 VCD/1.25A
<b>Output to bulb</b>	12-14 VDC / 0.8-1.0A (10W)*	12-14 VDC / 0.8-1.0A (10W)*	12-14 VDC / 0.8-1.0A (10W)*
<b>Stability</b>		±0.1%	
<b>Time to stabilize</b>			
<b>Bulb life</b>	1000 hrs	> 2000 hrs	< 1000 hrs
<b>Optical Power</b>			
<b>200µm fiber</b>	20 mWatt	13 mWatt	27 mWatt
<b>Optical power</b>			
<b>400µm fuber</b>	80 mWatt	50 mWatt	100 mWatt
<b>Optical power</b>			
<b>600µm fiber</b>	150 mWatt	100 mWatt	200 mWatt
<b>Bulb color</b>			
<b>temperature</b>	2,850 K	2,700 K	3,000 K

\* Output to bulb depends on jumper settings.

\*\* Options

Control Development, Inc. reserves the right to change specifications without notice.

## Order Information: THL

***Affordably Priced,  
Starting At \$835.00***



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