



Calibration Source

I<sub>2</sub>-HeNe



HighFinesse  
Laser and Electronic Systems

## Laser Head

Nominal output wavelength	633 nm
Frequency stability (10s averaging time)	$3 \times 10^{-12}$
Repeatability ( $2\sigma$ variance)	$2.5 \times 10^{-11}$
Method of stabilization	Third harmonic method
Locking Modulation Frequency	6.6 kHz sine wave
Frequency Width of Locking Modulation	$6 \pm 0.3$ MHz
Accessible 127I <sub>2</sub> hyperfine components	d,e,f, g of the 11-5 R(127) absorption (h,i,j on request)
Output power	45 – 70 $\mu$ W, typ. 60 $\mu$ W (up to 110 $\mu$ W on request)
Polarization	Linear, vertical
Continuous frequency lock over 24 hours for ambient temperature $20^\circ\text{C} \pm 1^\circ\text{C}$	Yes
Tuning	Automatic & Manual
Dimensions	460 × 180 × 155 mm

## Power Supply

AC line voltage	220-240 V / 50 Hz (others on request)
Dimensions	350 × 250 × 110 mm

## Options

Optical Isolator (i)	The system can be equipped with an optical faraday isolator to minimize optical feedback and increase the stability of the laser system
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The iodine stabilised laser calibration source is certified by comparison to an optical frequency comb in full compliance with the International Committee of Weights and Measure (CIPM 97) “Mise en pratique” recommendation for the realization of the meter. The certification process is performed by The Central Office of Measures (GUM), Poland.



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## Recommended Wavelength Meter

WS8-2

WS8-10, WS8-10 UV-I, WS8-10 IR-I

WS7-30, WS7-30 UV-I, WS7-30 IR-I

WS7-60 IR-I

Older models:

WSU2

WSU10, WSU10 UV-I, WSU10 IR-I

WSU30, WSU30 UV-I, WSU30 IR-I

## Further Information

For further technical information, application examples, diagrams  
and for customisation of calibration sources please contact:

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