



Certificate #: 291165-240607
Model: Pronto-Si
Head Serial Number: 291165
Firmware Version: 1.00.08
Cal. Procedure: 420- 190244

V14

Customer Name: DEFINITIVE SPECIAL
PROJECTS LTD
Instrument ID:
Date of Calibration: June 7, 2024
Calibration Due Date: June 7, 2025

Calibration Data

Sensitivity [A/W]										
Calibration without attenuator										
λ [nm]	00	10	20	30	40	50	60	70	80	90
300			0.1793	0.1805	0.1789	0.1747	0.1670	0.1609	0.1675	0.1781
400	0.1888	0.1992	0.2096	0.2200	0.2308	0.2416	0.2523	0.2633	0.2741	0.2856
500	0.2979	0.3100	0.3219	0.3335	0.3448	0.3562	0.3676	0.3792	0.3907	0.4023
600	0.4139	0.4252	0.4363	0.4473	0.4581	0.4689	0.4794	0.4898	0.5001	0.5101
700	0.5202	0.5298	0.5394	0.5489	0.5582	0.5673	0.5763	0.5852	0.5940	0.6025
800	0.6089	0.6153	0.6232	0.6311	0.6392	0.6474	0.6556	0.6639	0.6710	0.6781
900	0.6826	0.6893	0.6982	0.7031	0.7079	0.7113	0.7147	0.7092	0.7037	0.6854
1000	0.6584	0.6227	0.5596	0.4966	0.4263	0.3488	0.2713	0.2099	0.1646	0.1297
1100	0.1010									

Calibration with attenuator										
λ [nm]	00	10	20	30	40	50	60	70	80	90
300										
400	0.01479	0.01659	0.01851	0.02056	0.02199	0.02415	0.02703	0.02812	0.02818	0.02813
500	0.02843	0.02923	0.03041	0.03197	0.03419	0.03605	0.03757	0.03713	0.03625	0.03494
600	0.03579	0.03720	0.03915	0.04010	0.04072	0.04104	0.04283	0.04609	0.05081	0.05694
700	0.06306	0.06595	0.06884	0.06892	0.06831	0.06701	0.06541	0.06351	0.06151	0.05943
800	0.05734	0.05525	0.05337	0.05150	0.04981	0.04812	0.04660	0.04509	0.04365	0.04222
900	0.04077	0.03951	0.03844	0.03729	0.03613	0.03508	0.03403	0.03275	0.03148	0.02984
1000	0.02793	0.02575	0.02277	0.01979	0.01671	0.01353	0.01035	0.00788	0.00611	0.00478
1100	0.00370									

Instrument Uncertainty

without attenuator				with attenuator			
320 - 399	nm	±	6.0 %	400 - 899	nm	±	4.0 %
400 - 449	nm	±	2.0 %	900 - 1009	nm	±	5.0 %
450 - 809	nm	±	1.5 %	1010 - 1100	nm	±	7.5 %
810 - 899	nm	±	2.0 %				
900 - 1009	nm	±	4.0 %				
1010 - 1100	nm	±	7.5 %				

Ambient Temp.* : 22 °C

Sensitivities under 320 nm are not traceable

Relative Humidity* : 47 %

Test Equipment and Standards Used

ID#	Description	Serial#	Last Cal.	By	Certificate #
EOC-1018	Varian, CARY 5000, Spectrophotometer	UV0812M344	N/A	N/A	N/A
EOCE-915	Gentec-EO, PH100-SiUV-WL, wattmeter	232414	Sep. 19, 2023	NRC-CNRC	PAR-2023-3977-R1
EOCE-729	Gentec-EO, P-LINK USB, monitor	211671	May 14, 2024	Gentec-EO	211671-240514
EOCE-731	Gentec-EO, P-LINK USB, monitor	213631	May 14, 2024	Gentec-EO	213631-240514
EOCE-425	Keithley 220, programmable current source	097404	Sep. 5, 2023	Pylon	N1132034

Declaration of Conformity

Gentec Electro-Optics certifies that, at the time of calibration, the above listed instrument meets or exceeds all specifications. It has been calibrated using standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), the National Research Council Canada (NRC) or other National Metrology Institutes. Calibration results relate only to the instrument being calibrated. Calibration activities are compliant to ISO 9001:2015 and ISO/IEC 17025:2017. Total expanded uncertainties are reported with a coverage factor $k=2$, providing a level of confidence of approximately 95%. Any statement of compliance is made without taking measurement uncertainty into account and is based on the instrument's specifications.

*Measurement not include in the scope of accreditation to ISO/IEC 17025:2017

Signature

William Beaulieu
Calibrate byJune 7, 2024
Date of Issue

Signature

Quality Assurance

Date of Inspection

Variance Report

	Last Calibration	As Received	New Calibration
Date	July 26, 2023	June 5, 2024	June 7, 2024
Change without attenuator (% RMS)	-----	1.1%	1.1%
Change with attenuator (% RMS)	-----	1.5%	1.2%