



הרשות הלאומית להסמכת מעבדות
Israel Laboratory Accreditation Authority

Calibration Laboratories

ISO/IEC 17025:2017

Accreditation Certificate No. 376

Ophir Optronics Solutions Ltd.

Main site address: 10 Hartum St., Jerusalem ,9145001, Israel

Valid from: 20.02.2022

Until: 29.04.2024

The organization was assessed by the Israel Laboratory Accreditation Authority (ISRAC) and found to be worthy of accreditation to the detailed schedule attached.

The schedule is an integral part of this certificate and is numbered with the above certificate number.

Accreditation demonstrates technical competence and operation of an internationally recognized quality management system.

The organization accredited by ISRAC complies with the standards / requirements mentioned above, meets the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically competent results. This accreditation is granted in accordance with the requirements of the standard ISO/IEC 17011:2017, and entails periodic surveillance and reassessment by ISRAC to ensure that the organization continues to comply with the accreditation requirements.

The accreditation is valid provided that the organization continues to meet the criteria as laid down by ISRAC. ISRAC is an EA-BLA (European co-operation for Accreditation Bi-Lateral Agreement) signatory.

This certificate does not constitute an approval in accordance with article 12 of the standard law.

Date of first accreditation: 30.04.2018

Israel Laboratory Accreditation Authority

Date of signature 31/03/2022

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Name and Address:

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Site: P or T or M , P-Permanent, T-Temporary, M-Mobile

A permanent (P) or temporary (T) place, or a stationary or mobile (M) facility, at or from which the organization performs activities forming part of its scope of accreditation, starting from sampling to final issuance of a report or certificate and / or quality system activities. A temporary (T) site is a site established under the responsibility of an accredited permanent site. All activities performed at a temporary site are the responsibility of the permanent site. An outdoors work is also considered to be a temporary site. Temporary site will be a site that involves work for special project and the activity will be defined in time (up to 2 years).

Type of Scopes: A- Fixed, C- Flexible scope in analytical tests : Type of matrix, analytes, experimental systems and/or analytical characteristics may be subject to changes, in accordance with the laboratory's approved and documented procedures. For details, please refer to the list of Accredited Tests, available from the laboratory upon request.



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC & LF					כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
1	A	P	DC Current, Displays	זרם ישר, צגים [30 nA to 700 μA]	0.17 %	Work Instruction QA-102	

Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Physical Quantities - Optics					כיוול – גדלים פיזיקליים - אופטיקה		
2	A	P	Thermal sensors גלאים תרמיים	Power הספק [10 μW to 15 kW] at 193, 248 nm	1.4 %	Work Instruction QA-101	Uncertainty values for Silver master reference sensor. UUT typically has higher uncertainty
3	A	P		Power הספק [10 μW to 15 kW] at 355, 532, 808, 1064, 1070, - 10600 nm	1.3 %		
4	A	P		Power הספק [10 μW to 15 kW] at (248 nm to 355 nm)	1.7 %		
5	A	P		Power הספק [10 μW to 15 kW] at (355 nm to 2200 nm)	1.6 %		
6	A	P		Thermal sensors גלאים תרמיים	Energy אנרגיה [15 μJ to 10 kJ] at 193 nm		
7	A	P	Energy אנרגיה [15 μJ to 10 kJ] at [248 nm to 2200 nm]		2.7 %		
8	A	P	Energy אנרגיה [15 μJ to 10 kJ] at 10600 nm		2.7 %		
9	A	P	Photodiode IR sensors פוטודיודות ל-IR	Power הספק [5 nW to 30 mW] at [700 nm to 1430 nm]	2.2 %	Work Instruction QA-100	Uncertainty values for Silver master reference sensor. UUT typically has higher uncertainty
10	A	P		Power הספק [5 nW to 30 mW] at (1430 nm to 1600 nm)	2.4 %		
11	A	P	Photodiode UV-VIS sensors פוטודיודות ל-VIS-UV	Power הספק [20 pW to 3 mW] at (210 nm to 220 nm)	4.0 %	Work Instruction QA-100	Uncertainty values for Silver master reference sensor.
12	A	P		Power הספק [20 pW to 3 mW] at (220 nm to 255 nm)	3.2 %		



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement'	Reference Documents	Remarks
Calibration – Physical Quantities - Optics					כיוול – גדלים פיזיקליים - אופטיקה		
13	A	P		Power הספק [20 pW to 3 mW] at (255 nm to 285 nm]	2.4 %		UUT typically has higher uncertainty
14	A	P		Power הספק [20 pW to 3 mW] at (285 nm to 430 nm]	1.6 %		
15	A	P		Power הספק [20 pW to 3 mW] at (430 nm to 1000 nm]	0.8 %		
16	A	P		Power הספק [20 pW to 3 mW] at (1000 nm to 1030 nm]	1.6 %		
17	A	P		Power הספק [20 pW to 3 mW] at (1030 nm to 1070 nm]	2.6 %		
18	A	P		Power הספק [20 pW to 3 mW] at (1070 nm to 1100 nm]	3.2 %		
19	A	P	Photodiode UV-VIS Irradiance sensors	פוטודיודות למדידת הספק ליחידת שטח UV- VIS	Power הספק ליחידת שטח [100 nW/cm ² to 20 W/cm ²] at (210 nm to 220 nm]	5.5 %	
20	A	P		Power הספק ליחידת שטח [100 nW/cm ² to 20 W/cm ²] at (220 nm to 255 nm]	4.1 %		
21	A	P		Power הספק ליחידת שטח [100 nW/cm ² to 20 W/cm ²] at (255 nm to 285 nm]	3.5 %		
22	A	P		Power הספק ליחידת שטח [100 nW/cm ² to 20 W/cm ²] at (285 nm to 430 nm]	3.2 %		
23	A	P		Power הספק ליחידת שטח [100 nW/cm ² to 20 W/cm ²] at (430 nm to 1000 nm]	3 %		
24	A	P		Pyroelectric sensors	גלאים פירואלקטרים		
25	A	P		Energy אנרגיה 1 mJ at [248 nm to 2200 nm]	2.8 %		
26	A	P		Energy אנרגיה 5 mJ at 193 nm	2.7 %		
27	A	P		Energy אנרגיה 5 mJ at [248 nm to 2200 nm]	2.8 %		



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Physical Quantities - Optics					כיוול – גדלים פיזיקליים - אופטיקה			
28	A	P			Energy 10 mJ at 193 nm אנרגיה	2.7%		
29	A	P			Energy 10 mJ at [248 nm to 2200 nm] אנרגיה	2.8 %		
30	A	P			Energy 20 mJ at 193 nm אנרגיה	2.7 %		
31	A	P			Energy 20 mJ at [248 nm to 2200 nm] אנרגיה	2.8 %		
32	A	P			Energy 50 mJ at 193 nm אנרגיה	2.7 %		
33	A	P			Energy 50 mJ at [248 nm to 2200 nm] אנרגיה	2.8 %		
34	A	P			Energy 100 mJ at 193 nm אנרגיה	2.7 %		
35	A	P			Energy 100 mJ at [248 nm to 2200 nm] אנרגיה	2.8 %		
36	A	P	Relative spectral reflectance factor	מקדם החזרה ספקטרלית יחסי	>0.80 to 0.99 at [250 nm to 400 nm)	0.013 of reading	QA-105	Spectral reflectance factor is a dimensionless property
37	A	P			>0.80 to 0.99 at [400 nm to 1500 nm)	0.006 of reading		
38	A	P			>0.80 to 0.99 at [1500 nm to 2200 nm]	0.009 of reading		
39	A	P	Spectrophotometer - wavelegnth	ספקטרופוטומטר - אורך גל	250 nm to 2200 nm	4 nm	QA-105	Standard transmission reference glass and lamp emission peak calibration procedure.

¹) The uncertainty covered by the CMC expressed as the standard measurement uncertainty multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95 %.