



SCOPE OF ACCREDITATION TO ISO 17025:2017

X-RITE CHINA SERVICE CENTER  
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CALIBRATION

Valid To: December 31, 2025

Certificate Number: 2108.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1,7</sup>:

I. Optical Quantities

Parameter/Equipment <sup>5</sup>	Range	CMC <sup>2,4</sup> (±)	Comments <sup>6</sup>
Spectrophotometers –			White reflection standards with:
Model 962, 964, 939 (0/45 Optical Geometry)	(400 to 420) nm (430 to 700) nm	1.7 % R 0.92 % R	SPP X-it 962
Model CI60, CI61, CI62, CI64, CI64 UV, CI4xxx	400 nm (410 to 700) nm	0.95 % R 0.41 % R	SPP CI6x
Model CI7xxx <sup>3</sup>	(360 to 400) nm (410 to 750) nm	0.83 % R 0.43 % R	SPP CI7x
Model 504, 508, 518, 528, 530 (0/45 Optical Geometry)	400 nm (410 to 700) nm	1.7 % R 0.89 % R	SPP X-it 500

Parameter/Equipment <sup>5</sup>	Range	CMC <sup>2, 4</sup> ( $\pm$ )	Comments <sup>6</sup>
Spectrophotometers – (cont)			White reflection standards with:
Model Exact (0/45 Optical Geometry)	(400 to 410) nm (420 to 700) nm	1.8 % <i>R</i> 1.1 % <i>R</i>	SPP exact
Model eXact 2 (ETV) (0/45 Optical Geometry)	(400 to 410) nm (420 to 700) nm	1.8 % <i>R</i> 1.1 % <i>R</i>	SPP ETV
Model MA9X (Aspecular Optical Geometry)			
-15 degree	400 nm (410 to 700) nm	0.96 % <i>R</i> 0.99 % <i>R</i>	SPP final 2 MA9x
15 degree	(400 to 410) nm (420 to 700) nm	0.91 % <i>R</i> 0.78 % <i>R</i>	
25 degree	400 nm (410 to 700) nm	0.86 % <i>R</i> 0.75 % <i>R</i>	
45 degree	400 nm (410 to 700) nm	0.81 % <i>R</i> 0.70 % <i>R</i>	
75 degree	400 nm (410 to 700) nm	0.88 % <i>R</i> 0.80 % <i>R</i>	
110 degree	400 nm (410 to 700) nm	0.95 % <i>R</i> 0.90 % <i>R</i>	
Model MA-x Series and OEM Variants (TOP Spectrophotometer) (Aspecular Optical Geometry)			
15 degree	(400 to 410) nm (420 to 700) nm	1.2 % <i>R</i> 1.1 % <i>R</i>	Topaz service manual
25 degree	400 nm (410 to 700) nm	1.2 % <i>R</i> 1.1 % <i>R</i>	
45 degree	400 nm (410 to 700) nm	1.1 % <i>R</i> 0.96 % <i>R</i>	
75 degree	(400 to 410) nm (420 to 700) nm	1.2 % <i>R</i> 1.0 % <i>R</i>	
110 degree	(400 to 700) nm	1.2 % <i>R</i>	

Parameter/Equipment <sup>5</sup>	Range	CMC <sup>2,4</sup> (±)	Comments <sup>6</sup>
Spectrophotometers – (cont)			White reflection standards with:
Model MA-x Series and OEM variants (TOP II Spectro-photometer) (Aspecular Optical Geometry)			Topaz 2 Service Manual
-15 degree	(400 to 700) nm	1.6 % <i>R</i>	
15 degree	(400 to 700) nm	1.2 % <i>R</i>	
25 degree	400 nm (410 to 700) nm	1.1 % <i>R</i> 1.0 % <i>R</i>	
45 degree	400 nm (410 to 700) nm	1.1 % <i>R</i> 0.96 % <i>R</i>	
75 degree	(400 to 410) nm (420 to 700) nm	1.1 % <i>R</i> 1.0 % <i>R</i>	
110 degree	(400 to 700) nm	1.2 % <i>R</i>	
Model MA-Tx Series and OEM Variants (KOH Spectrophotometer) (Aspecular Optical Geometry)			Kohinoor service manual
-15 degree	400 nm (410 to 700) nm	1.1 % <i>R</i> 1.0 % <i>R</i>	
15 degree	(400 to 420) nm (430 to 700) nm	1.1 % <i>R</i> 0.85 % <i>R</i>	
25 degree	400 nm (410 to 700) nm	0.95 % <i>R</i> 0.80 % <i>R</i>	
45 degree	400 nm (410 to 700) nm	0.88 % <i>R</i> 0.73 % <i>R</i>	
75 degree	(400 to 420) nm (430 to 700) nm	0.98 % <i>R</i> 0.78 % <i>R</i>	
110 degree	400 nm (410 to 700) nm	0.98 % <i>R</i> 0.92 % <i>R</i>	
Optical Radiation <sup>3</sup> (Lightbooth)	2300 K (Horizon) 2856 K (Illuminate A)	20 K 22 K	X-Rite LightSpex Pro radiometer

SATTELITE FACILITY

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CALIBRATION

I. Optical Quantities

Parameter/Equipment <sup>5</sup>	Range	CMC <sup>2, 4</sup> ( $\pm$ )	Comments <sup>6</sup>
Spectrophotometers –			White reflection standards with:
Model Exact (0/45 Optical Geometry)	(400 to 410) nm (420 to 700) nm	1.8 % <i>R</i> 1.1 % <i>R</i>	SPP exact
Model eXact (NGH) (0/45 Optical Geometry)	400 to 410) nm (420 to 700) nm	1.8 % <i>R</i> 1.1 % <i>R</i>	SPP ETV
Model Ci5/Ci7 <sup>3</sup> (Sphere 0/8° Optical Geometry)	(360 to 390) nm (400 to 740) nm	0.88 % <i>R</i> 0.49 % <i>R</i>	SPP CtestXP
Optical Radiation <sup>3</sup> (Lightbooth)	2300 K (Horizon) 2856 K (Illuminate A)	20 K 22 K	X-Rite LightSpex Pro radiometer

<sup>1</sup> This laboratory offers commercial calibration service and field calibration services.

<sup>2</sup> Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of  $k = 2$ . The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer’s device and to influences from the circumstances of the specific calibration.



<sup>3</sup> Field calibration service is available for this calibration. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

<sup>4</sup> In the statement of CMC,  $R$  is the reflectance.

<sup>5</sup> The product families have the same optical geometries and calibration procedures. The features on the display and outputs are the only differences.

<sup>6</sup> White reflection standards apply to the calibration of approximately 80 % reflectance on a neutral white ceramic. Color calibration is mainly based on inter-instrument agreement.

<sup>7</sup> This scope meets A2LA's *P112 Flexible Scope Policy*.



# Accredited Laboratory

A2LA has accredited

## X-RITE CHINA SERVICE CENTER

Shanghai, PEOPLE'S REPUBLIC OF CHINA

for technical competence in the field of

### Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 13<sup>th</sup> day of February 2024.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2108.03  
Valid to December 31, 2025

*For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.*