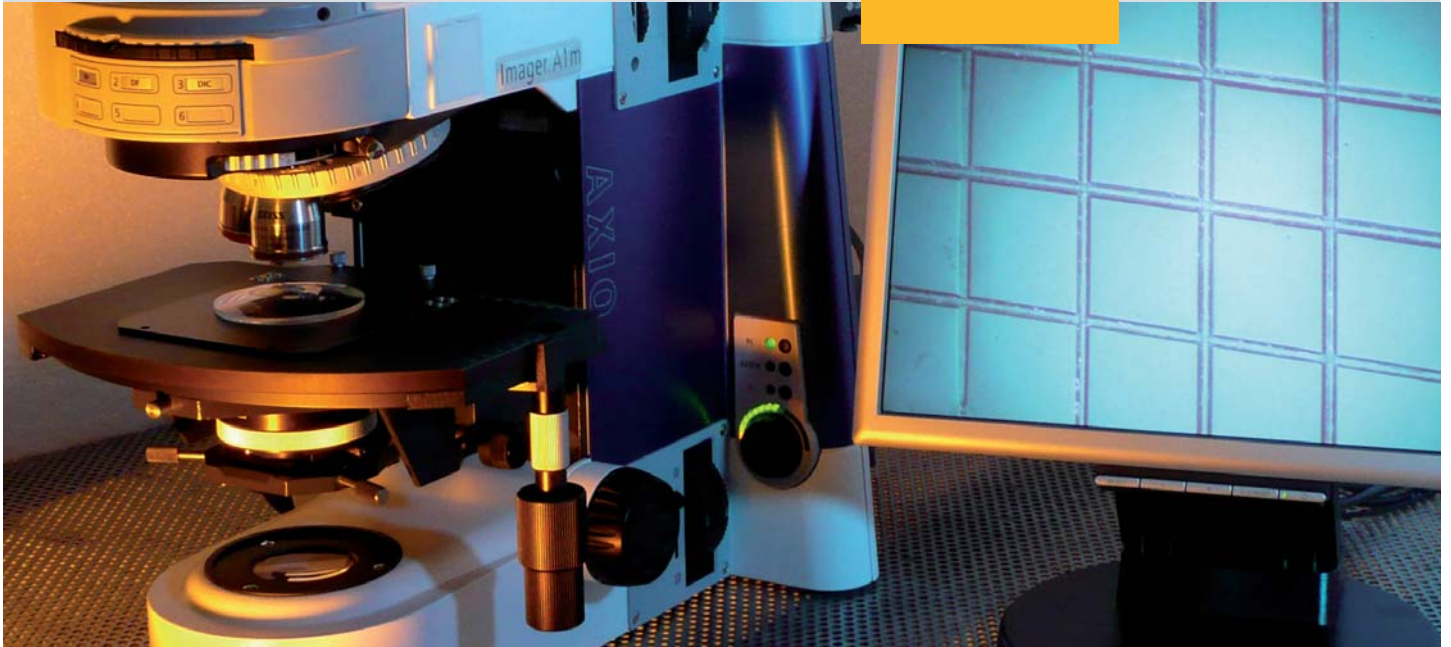


# Lens Testing

Key tool for customer satisfaction

**Lens Testing**  
key tool for customer satisfaction



## Quality Test Portfolio: Description, Duration, Price

Testing Group	Test	Full Name & Description <sup>(1)</sup>	Test Duration <sup>(2)</sup>	Price/ Lens (€)
Measurement & Inspection	DAM	Defect Analysis by Microscope	< 1 day	10
	PCH	Preliminary Check (visual inspection)	< 1 day	5
	LAB	Reflectance Measurement and CIE Lab colour coordinates calculation	< 1 day	10
	TYI	Transmittance measurement and Yellowness Index calculation	< 1 day	10
Environmental	KLT	Klima Test	3 days	30
	QUV	Artificial aging test	10 days	80
	TST	Thermal Shock Test	< 1 day	20
Hardness	BTR	Bayer Test	2 days	30
	SWT	Steel Wool Test – Abrasion test	< 1 day	15
	TBT	Tumble Test – Abrasion test for concave side (hard coating by spin)	2 days	30
Hard coat	BWT	Boiling Water Test	< 1 day	30
	HCT	Hard Coating Thickness measurement	< 1 day	15
Functional layers	AST	Antistatic Test – Evaluates the antistatic property of the AR coating	< 1 day	25
	CAT	Water Contact Angle measurement – Evaluates the hydrophobicity of the top coat	< 1 day	30
	DOC	Dynamic Oil Contact angle test – Evaluates the oleophobicity of the top coat	1 day	50
	HST	Hydrophobic Stroke Test – Evaluates the hydrophobicity lifetime of the top coat	2 days	50
	IKT	Ink Test – Evaluates the oleophobicity of the top coat	< 1 day	10
	SLT	Slipperiness Test – Evaluates the hydrophobicity of the top coat	< 1 day	10

<sup>(1)</sup> For more details on test please contact Satisloh staff

<sup>(2)</sup> Duration is comprehensive of all needed procedures and analysis required by each test

## Quality Test Packages\*

Package name	No. of lenses required	Price (€)
<b>MTP – Minimal Testing Package</b> Tests performed: BTR, QUV, TST Duration: 10 days This package provides minimum information regarding hardness and environmental durability of AR coating without any statistic.	3	120
<b>BTP – Basic Testing Package</b> Tests performed: BTR, QUV, TST Duration: 10 days This package is the upgrade of MTP with a higher number of lenses for a minimal statistic.	9	350
<b>ATP – Advanced Testing Package</b> Tests performed: AST, BTR, BWT, CAT, HCT, IKT, LAB, QUV, SLT, TST, TYI Duration: 10 days The scope of this test is a complete analysis of the optical package with a statistic number of lenses. Tested in this package: hardness and adhesion of hard coat, hardness and environmental durability of AR coating, antistaticity, properties of the hydrophobic layer in internal and external calotte position. Optical properties of the AR coating in internal, middle and external calotte position will be measured.	21	650
<b>BHPP – Basic Hydrophobic Properties Package</b> Tests performed: CAT, IKT, SLT Duration: 1 day This package is dedicated especially for hydrophobic testing. Evaluates key hydrophobic properties with non-destructive tests on one single lens.	1	50
<b>AHPP – Advanced Hydrophobic Properties Package</b> Tests performed: CAT, DOC, HST, IKT, SLT Duration: 3 days This package adds more lenses to BHPP and other significant tests, like HST for lifetime evaluation.	6	280
<b>BHCP – Basic Hard Coating Package</b> Tests performed: BWT, HCT Duration: 2 days The aim of this package is the evaluation of basic adhesion and thickness of hard coating.	2	45
<b>AHCP – Advanced Hard Coating Package</b> Tests performed: BTR, BWT, HCT Duration: 2 days This package adds to BHCP the hardness measurement and more lenses for an increased statistic.	6	140
<b>BOPP – Basic Optical Properties Package</b> Tests performed: LAB, TYI Duration: 1 day This package is intended for the extraction of optical properties of one single lens AR coated.	1	20
<b>AOPP – Advanced Optical Properties Package</b> Tests performed: LAB, TYI Duration: 1 day This package adds more lenses to AOPP with the target to evaluate differences among different positions along the calotte.	3	55

\* By choosing these packages the customer benefits from a further discount for each single test. For more details on type of lenses required for each package please ask Satisloh staff.

### Discount program:

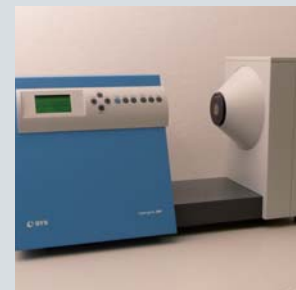
Customers who accumulate an invoice total, equal or higher than 500 € (1000 €) in the previous year, get a 5% (10%) discount for the present year. The discount for the next year will be reset, if the expected amount is not reached at the end of the present year.



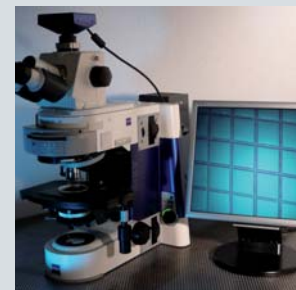
QUV: Artificial aging test



KLT: Klima test



BTR: Bayer test (hazemeter)



DAM: Defect analysis by microscope



CAT/DOC: Water/ Dynamic oil contact angle test

For quotation please send to:

Satisloh Italy

Fax No. +39 02 33 50 12 00

Email [qualitytest.it@satisloh.com](mailto:qualitytest.it@satisloh.com)

Quality Test Request Form (to be sent with your lenses)

Last name, first name

Company

Street

Zip Code

Phone

City

Fax

Country

Mail

Authorized signature

I herewith request the following quality test (please fill out):

Coating machine model (\*):

s/n (\*):

Year (\*):

N° of samples	Substrate type	Hard coating type	AR coating type	Hydrophobic type	Test/Package request

## Contact

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