

## ETA-ARC: Fast and precise measuring system for ophthalmic Anti-Reflection and hard coatings

*NXT offers a fast, precise and easy-to-use measuring system for ophthalmic Anti-Reflection and hard coatings. The ETA-ARC is an industry-proven system that is used by leading manufacturers in their R&D and production process.*

### Measurement of AR coating

ETA-ARC measures residual reflectance and color quickly and precisely, directly on the lens. The unique probe suppresses the substrate's rear surface reflection; There is no need to roughen or blacken the lens.

### Measurement of hard coating

The software package STC (module dual layer) enables simultaneous thickness measurement of 2 layers. Primer + hard coating as well as UV coating + IPL (Inter Penetration Layer) are measured in less than a second!

### Highlights of ETA-ARC

#### Measurement of coating properties:

- Residual reflectance
- Color and color matching (dE-Lab)
- Layer thickness of hard coating

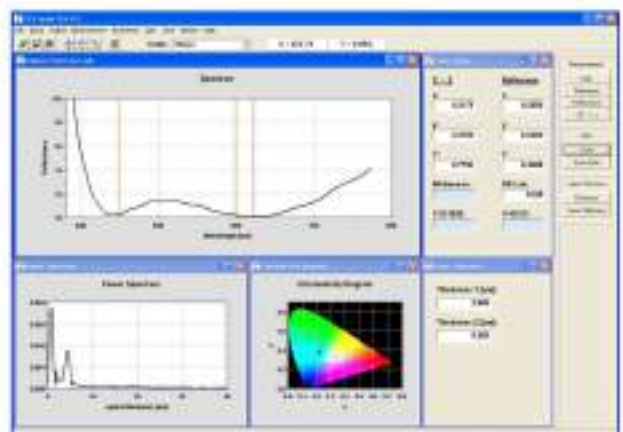
#### Single and dual layer hard coating thickness:

- Primer + hard coating
- IPL (Inter Penetration Layer) of UV coating

#### No back surface preparation necessary:

Measuring probe rejects 100% of back surface reflections on  $\geq 2\text{mm}$  substrates

### Measurement Example



*Residual reflectance and color of AR + layer thickness of hard coating*

### Specifications

#### MEASUREMENT

Thickness range / accuracy	0.1-20 $\mu\text{m}$ / $\pm 0.04\mu\text{m}$
Color Measurement	CIE

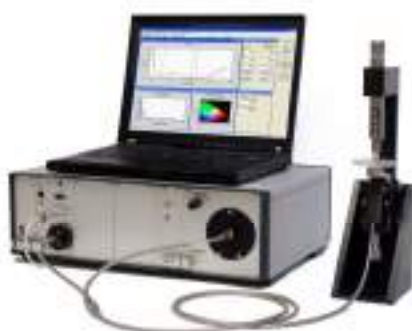
#### SPECTROMETER SYSTEM

Detector	Si line sensor
Spectral range	380-1050nm
Optical Resolution	5.2nm
Wavelength accuracy	$\pm 0.5\text{nm}$
Digitalisation	16-bit
Typical measuring time	$\leq 0.2\text{s}$
Light source	Tungsten halogen
Color temperature	3000K
Communication	USB / Ethernet

#### SOFTWARE

Software package ETA-STC including measuring modules for color evaluation and dual layer thickness

*PC or laptop is not included with the standard ETA-ARC system*



*ETA-ARC measuring system including probe for hands free measurement*

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