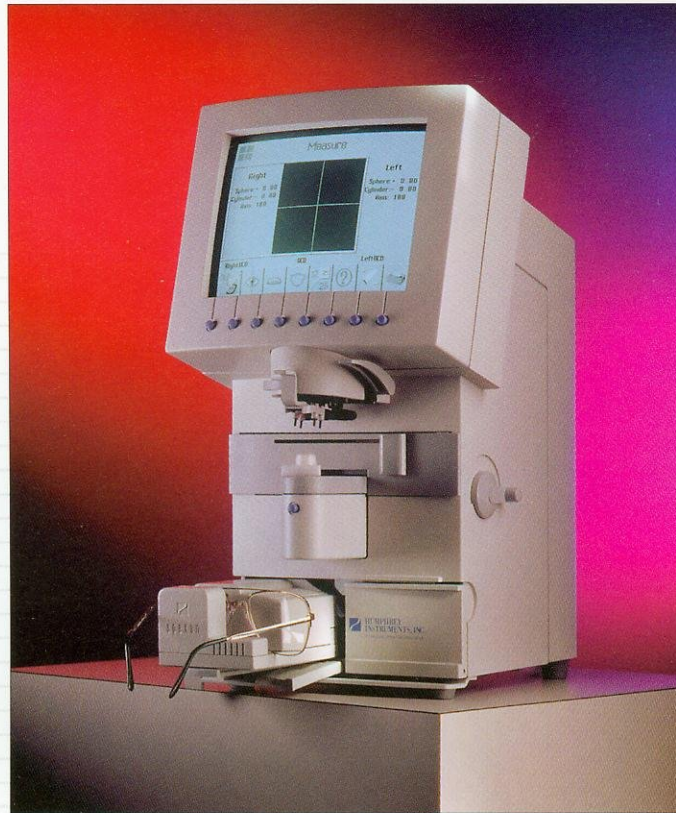


HUMPHREY INSTRUMENTS  
Humphrey® Lens Analyzer  
Models 350 and 360 with SPEXAN



**With Humphrey's Lens Analyzers,  
you get fast and precise neutralization for all lens types**

**Accurate lensometry**

The LA 350 and LA 360 with SPEXAN give you fast, easy, and accurate lens neutralization for any lens—for progressive addition lenses, prescriptions with prism, contact lenses, polycarbonate, or other high-index materials—without extensive training or reading through thick manuals.

**Ease of Use**

The LA 350 and LA 360 both feature an icon-based interface that guides the operator through the neutralization process. They provide continuous feedback and notify the user of special situations—such as lens aberrations or rapid power changes.

The instruments automatically calculate the monocular and binocular spectacle PD—*without centering the lens*. Just place the lens in the instrument and it does the rest.

**Special software advantages**

The LA 350 and LA 360 come with ACCURx-Plus™ software to allow the instrument to remain current for use with any lens material. Simply enter the Abbe number of the lens material and the instrument will adjust accordingly. *No matter what material the lens is made of.*

**Communicom interface provides data transfer**

These instruments work with the Communicom™ interface and the Humphrey Automatic Refractor to transfer spectacle information instantly to the refractor for faster patient comparisons to existing prescriptions. The Communicom also provides connectivity to other Humphrey instruments.

**Protection from UV radiation hazards**

In addition, the Humphrey LA 360 with SPEXAN helps you protect your patients' eyes from the dangers of ultraviolet radiation. Considerable evidence suggests that long-term exposure to UV contributes to cataract formation and may also damage the retina. The LA 360 includes an integrated spectrometer that allows for quick, easy, and precise measurement of the UV-B, UV-A, and visible light transmission qualities of your patients' lenses.

**Service and Support**

The LA 350 and LA 360 with SPEXAN are backed by quality Humphrey service—the best in the profession. You can count on us for responsive service personalized to your specific needs.

 **HUMPHREY  
INSTRUMENTS**  
A Division of Carl Zeiss

# Humphrey® Lens Analyzer Models 350 and 360 with SPEXAN

## Technical Specifications

<b>Range of Applicability to Lens Types</b>	Spectacles: Contacts: Tints and Coatings:	single, bifocal, trifocal, aphakic, and progressive addition lenses hard and soft scratch resistant. UV and anti-reflective coatings and tints down to 5% luminous transmittance									
	Refractive materials: Lens diameter: High Index Correction:	all commercially available 7mm to 100 mm corrects calibration for high-index materials due to dispersion difference in response to operator input of appropriate Abbé value									
<b>Performance</b>	Sphere: Increments: Cylinder: Increments: Axis: Increments: Prism: Increments: Adds: Increments: PD: Increments:	-20D to +20D .01D, .12D, .25D -20D to +20D .01D, .12D, .25D 1° to 180° 1° -15D to +15D .01D, .12D, .25D +0.25D to +10D .01D, .12D, .25D 0 to 90 mm .5 mm									
<b>SPEXAN Performance</b> (Model LA 360 only)	Spectral Range: Spectral Resolution: Transmission Resolution:	290 – 700 nm 5 nm 1%									
<b>Operator Interface: Output</b>	Video Display:  Paper size: Audible prompts and indicators	9" diagonal, white phosphor CRT Resolution: 640 x 480 pixels 16 level grayscale 58 mm thermal paper									
<b>Operator Interface: Input</b>	Function buttons Foot Switch for STORE function STORE button										
<b>Physical</b>	Dimensions:  Weight:  Light source:  Operating conditions:  Storage conditions:	<table border="1"> <thead> <tr> <th>Height</th> <th>Width</th> <th>Depth</th> </tr> </thead> <tbody> <tr> <td>459 mm</td> <td>237 mm</td> <td>288 mm</td> </tr> <tr> <td>18"</td> <td>9.3"</td> <td>11.3"</td> </tr> </tbody> </table> 13.2 Kg 29.0 lbs  wavelength: 660 nm type: LED measurement pattern size: 5 mm (on diagonal): 3.5 mm (contact lens/PAL)  +10°C to +40°C 20% to 90% relative humidity  -40°C to +70°C 0% to 90% relative humidity (non-condensing)	Height	Width	Depth	459 mm	237 mm	288 mm	18"	9.3"	11.3"
Height	Width	Depth									
459 mm	237 mm	288 mm									
18"	9.3"	11.3"									
<b>Electrical</b>	Line voltage: Frequency: Power: Fuse rating: Current leakage:	100 to 240V AC 47 to 63 Hz single phase 100V 3A fast Blow, 250V, 5 x 20 mm Less than 100 µA at 120V									
<b>Interfaces</b>	Two RS-232 serial communication ports Selectable baud rate:	300 to 19.2K									

