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.
## Technical Specifications

### Range of Applicability to Lens Types
- Spectacles: single, bifocal, trifocal, aphakic, and progressive addition lenses
- Contacts: hard and soft
- Tints and Coatings: scratch resistant. UV and anti-reflective coatings and tints down to 5% luminous transmittance
- Refractive materials: all commercially available
- Lens Diameter: 7mm to 100 mm
- High Index Correction: corrects calibration for high-index materials due to dispersion difference
- In response to operator input of appropriate Abbé value

### Performance
- **Spheric:**
  - Inc.: -20D to +20D
  - Inc.: 0.1D, 1.0, 2.5D
- **Cylinder:**
  - Inc.: -20D to +20D
  - Inc.: 0.1D, 1.0, 2.5D
- **Axis:**
  - Inc.: 1° to 180°
  - Inc.: 1°
- **Prism:**
  - Inc.: -15D to +15D
  - Inc.: 0.1D, 1.0, 2.5D
- **Adds:**
  - Inc.: +0.25D to +100
- **P.D.:**
  - Inc.: 0 to 90 mm
  - Inc.: 0.5 mm

### SPEXAN Performance (Model LA 360 only)
- **Spectral Range:** 290 – 700 nm
- **Spectral Resolution:** 5 nm
- **Transmission Resolution:** 1%

### Operator Interface: Output
- **Video Display:** 9" diagonal, white phosphor CRT
  - Resolution: 640 x 480 pixels
  - 16 level grayscale
- **Paper Size:** 55 mm thermal paper
- **Audible Prompts and Indicators**
- **Function Buttons**
- **Foot Switch for STORE function**
- **STORE Button**

### Operator Interface: Input
- **Dimensions:**
  - Height: 459 mm
  - Width: 237 mm
  - Depth: 286 mm
  - 15" x 9.3" x 11.3"
- **Weight:** 13.2 Kg
  - 29.0 lbs
- **Light Source:** wavelength: 660 nm
  - type: LED
  - measurement pattern size: 5 mm
  - (on diagonal): 3.5 mm (contact lens/PAL)
- **Operating Conditions:**
  - +10°C to +40°C
  - 20% to 90% relative humidity
- **Storage Conditions:**
  - +40°C to +70°C
  - 0% to 90% relative humidity (non-condensing)

### Electrical
- **Line Voltage:** 100 to 240V AC
- **Frequency:** 47 to 63 Hz single phase
- **Power:** 100W
- **Fuse Rating:** 3A fast Blow 250V, 5 x 20 mm
- **Current Leakage:** Less than 100 μA at 120V

### Interfaces
- **Two RS-232 serial communication ports**
- **Selectable Baud Rate:** 300 to 19.2K

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