

QuickSee®

Accurate autorefractive anywhere

from **Grafton Optical**

More than 2 million people
tested in over 30 countries



World's most accurate handheld autorefractor

Binocular and open view

Eliminates patient accommodation for maximum reliability

Wavefront aberrometry

The most comprehensive method to measure ocular refractive errors

Dynamic measurements

Produces results with high confidence

APPLICATIONS

Accurate for the clinic, durable for the field



Mobile eyecare

Home visits • School and office screenings • Nursing homes



Global health

Mission trips • Population health
• Initiatives in low resource settings



Eyecare clinics

Patient screening • Post-op
• During pretest or refraction

Binocular measurements in 10 seconds

- Accelerates subjective refraction with a more accurate starting point
- Enables high throughput autorefractive

Accessible & easy to use

- Ideal for patients with mobility disabilities and/or physical challenges
- Easy to learn
- Works anywhere
- Patient friendly

Field durable

- Calibration free
- Operates in humid and dusty settings
- Can be used indoors and outdoors, in most light settings
- Includes hardened carrying case
- Operates up to 8 hours on battery

CLINICAL PERFORMANCE SPECIFICATIONS

| | |
|---|--|
| Intended patient population | 5–85 years old |
| Accuracy (agreement with subjective refraction) | <= 0.25 D: 60-70% of patients <= 0.5 D: 80-90% of patients (see publications) |
| Cylindrical range | -6D to +6D, increments of 0.01D, 0.125D, 0.25D |
| Axial range | 0–180°, increments of 1, 5, 10 degrees |
| Spherical range | -10D to +10D, increments of 0.01D, 0.125D, 0.25D |
| Interpupillary distance range | 47–78mm continuous |
| Accommodation control | Binocular open view |
| Pupil size | 2–8mm |
| Cycloplegia requirement | None |
| Amblyopia or strabismus | May require monocular measurement |
| Contact lens wearers | Over-refraction compatible |
| Dilation requirement | None |
| Illumination requirements | Works in any illumination |
| Furniture requirements | None |
| Materials | This product is latex-free |
| Storage/transport | Travel hardshell case included |

TECHNICAL SPECIFICATIONS

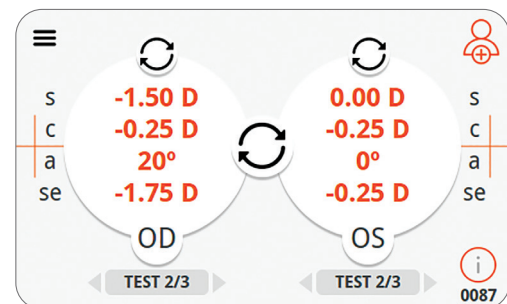
| | |
|--|---|
| Wavefront Refraction Engine™ technology patented by PlenOptika | |
| Technology | Wavefront aberrometry |
| Measurement mode(s) | Binocular and monocular |
| Measurement time | 10 seconds |
| Calibration | Factory calibrated, no field calibration needed |
| Battery life | 6–8 hours of operation; 6 hours charge time (10 hours for initial charge) |
| Communications | Bluetooth via QuickSee Companion App and Bluetooth printer |
| Measurement capacity | 10,000 measurements |
| Regulatory | Class I product, FDA Class IIa product, CE |
| Laser safety | Class 1, enclosed |
| Electrical safety | Compliant with IEC 60601-1(2005, 3.1 ed.) |
| Weight | 3.14lbs / 1.42kg (without case) 6.95lbs / 3.15kg (with case) |
| Dimensions | 6.5 x 11 x 3.25 " / 16.5 x 28 x 8.25 cm |
| Warranty | 1 year warranty |

United States

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Europe

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User interface: Simple and intuitive

Distributed in the UK and Ireland
by Grafton Optical



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KEY PUBLICATIONS

1. Durr NJ, Dave SR, Lim D, et al "Quality of eyeglass prescriptions from a low-cost wavefront autorefractor evaluated in rural India: results of a 708-participant field study" British Medical Journal Open Ophthalmology 2019;4:e000225. doi: 10.1136/bmjophth-2018-000225
2. Rubio M, Hernandez CS, Seco E, Perez-Merino P, Casares I, R. Dave SR, Lim D, Durr NJ, Lage E. "Validation of an affordable handheld wavefront autorefractor". Optometry and Vision Science, 2019 (accepted, in press)