

# Phoropter®

Ultramatic RX Master™ Phoropter®

Illuminated Phoropter®

*The world's best and brightest refracting instruments.*

The **Phoroptor**<sup>®</sup> is acknowledged world-wide as the finest available. It is designed and constructed to provide a lifetime of reliable service and it incorporates refinements that result from Reichert's nearly 80 years of experience in the refractor business.

Every Reichert product is backed by our premier sales staff, factory service department, and technical support experts.

ISO 9001 quality systems and world-class manufacturing practices ensure a high quality, reliable instrument you can count on every time.

Purchase the instrument to which all other refractors, manual and automatic, are compared. The Reichert Phoroptor<sup>®</sup> is the first and always the best – now with illuminated dials.



**The Ultramatic RX Master™ Phoroptor**<sup>®</sup> – the first and always the best refracting instrument - continues to be the industry standard after over 80 years.

Every Phoroptor<sup>®</sup> has that unmistakable feel of quality. The smooth rotation of the dials. The virtual absence of play in the mechanisms. The precise, solid click of the control knobs. Constant reminders that you're using the world's finest refracting instrument. It's a fit and feel no one can duplicate, any more than they can duplicate the Phoroptor<sup>®</sup>'s optical quality, accuracy and reliability.

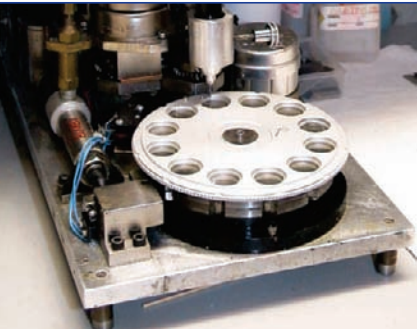


**The Illuminated Phoroptor®** features lighted dials to make it easier and more efficient to perform refractions in the darkened setting of the exam room.

Put away your pen light and leave the lights off throughout the entire process. The Illuminated Phoroptor® features lighted sphere, cylinder power and cylinder axis scales that are easier than ever to see. The Illuminated Phoroptor® utilizes cool-running, energy efficient LEDs that light only what you need to see without affecting the darkened refracting environment. The patented LED design results in maintenance-free illumination without the need to ever change a bulb.



**Illuminated Phoroptor®**



*Lenses secured by highly precise automated adhesive dispensers*



*Precision machined, industrial strength aluminum lens dials*



*Heavy duty, precision bearing races*



*Precision machined, heavy duty solid brass gears*

### **The Ultramatic Phoroptor® offers world-renowned mechanical quality.**

- Lens position and power verified by an auto-indexing, PC-based lensmeter
- Precision geared rotary prism for more precise interpolation of small prism diopters
- Corrosion-resistant materials
- Legendary feel – smoothness and positive detents that made the Phoroptor® famous

### **The Illuminated Phoroptor® offers the same quality... and more.**

- Lighted sphere, cylinder power and cylinder axis scales are easier than ever to see
- Utilizes cool-running, energy efficient LEDs
- Light only what you need to see without affecting the darkened refracting environment
- Patented LED design results in maintenance-free illumination without the need to ever change a bulb

### **The best warranty for both.**

The Illuminated Phoroptor® and the original Ultramatic Phoroptor® are the only refractors that carry a limited lifetime warranty – your assurance of lasting quality and enduring value.



## Ultramatic RX Master™ Phoroptor®

Catalog Numbers	
Minus Cylinder – Black	11625B
Plus Cylinder – Black	11635B
Minus Cylinder – White	11625W
Plus Cylinder – White	11635W

## Illuminated Phoroptor®

Catalog Numbers	
Minus Cylinder – Black	11636
Plus Cylinder – Black	11637
Minus Cylinder – White	11656
Plus Cylinder – White	11657

### Included Accessories (no extra cost)

± .25 Flip cross cylinder
+ 1.50 Retinoscopic Lenses
Accessory Case
3 pair nylon face shields
Rotochart™
Reading rod with card holder

### Optional Accessories (no extra cost)\* -

Flip cross cylinder lenses
+ .37D Flip cross cylinder
+ .50 Flip cross cylinder (Replaces the + .25 flip cross cylinder lenses)
Retinoscopic Lenses
+ 2.00D Retinoscopic lenses (Replaces the + 1.50 retinoscopic lenses)



Specifications	Range	Steps, Scale Graduations	Additional Information
Sphere	-19.00D to + 16.75D	0.25D	+ 0.12D Sphere in auxiliary dial included
Cylinder Power	0.00D to 6.00D	0.25D	Plus or minus lens system optional 0.12D and 2.00D in accessory cells included
Cylinder Axis	360° (Double 0°-180° scale)	5°	
Cross Cylinder	± 0.25	—	± 0.37 or ± 0.05 Optional
Prism	0 <sup>Δ</sup> to 20 <sup>Δ</sup>	1 <sup>Δ</sup>	—
P.D.	48 mm to 75 mm	1 mm	—
Vertex Distance	13.75 mm (normal)	—	Graduations extend range by 6 mm
Reading Distance	5" to 28"	—	Centimeter and diopter scales included
Auxiliary Dial	10 lenses plus 2 open apertures	—	—

Phoroptor Refracting Instrument is warranted to be free from material and workmanship defects, under normal use, for as long as the original purchaser owns the instrument. Product registration and proof of regular instrument service (performed by Reichert or by an Authorized Reichert Dealer) are required for any claim under the limited lifetime warranty. Regular instrument service must be performed at least every three years. Product registration can be accomplished via mail, fax, or [www.reichert.com](http://www.reichert.com). Contact Reichert or your Authorized Reichert Dealer for full warranty details. \*No extra cost optional only if stipulated at the time of order. The configuration of the Ultramatic RX Master™ Phoroptor® is a registered trademark in the US and Canada.



Proudly Made in the USA.

Visit [www.reichert.com](http://www.reichert.com) or contact your Authorized Reichert Technologies Distributor.

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**ISO 9001 Certified**  
Reichert products are designed and manufactured under quality processes meeting ISO 9001 requirements.