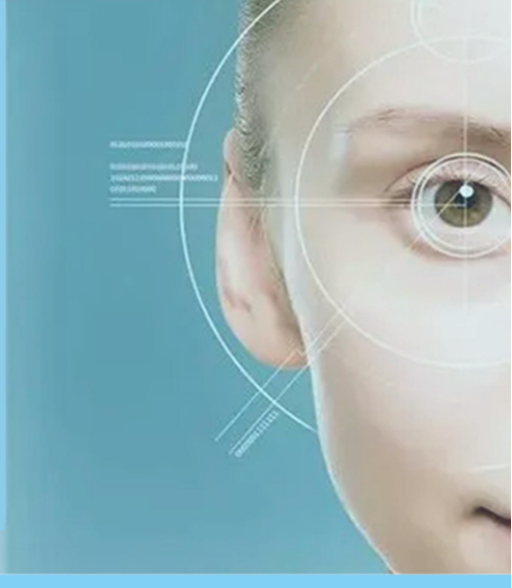
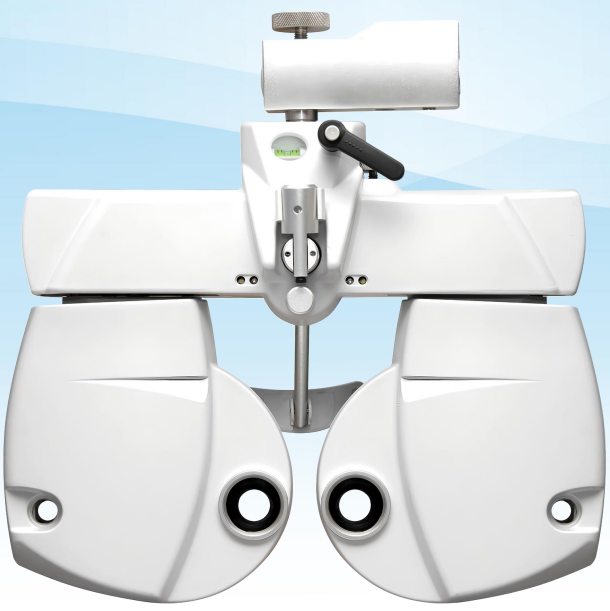


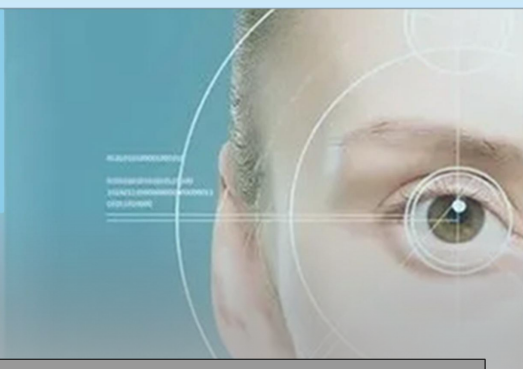
KFZD-8000
Auto PHOROPTER

Performance Features

The refractive error testing unit is an instrument equipped with comprehensive refractive error testing capabilities. Refraction specialists can use it not only to perform routine quantitative refractive examinations—such as assessing myopia, hyperopia, astigmatism, and binocular refractive balance—but the device also features multiple specialized visual testing functions. These include qualitative or quantitative analysis of various visual functions, such as binocular simultaneous vision, binocular fusion ability, stereopsis, fixation differences, presbyopia, accommodation and convergence, as well as the AC/A ratio. Consequently, it can provide precise data references for diagnosing a patient's visual acuity and for prescribing glasses.







Crystal Growth Parameters

Test specification	
Spherical lens	-29.00 ~ +26.75 D (general examination range) (Step size: 0.12D / 0.25D / 0.5D / 1.00D / 2.00D / 3.00D)
Cylindrical lens	0.00 ~ -8.75 D (general examination range) (Step size: 0.25D / 0.50D / 1.00D / 2.00D)
Axis of the cylindrical lens	0 ~ 180° (step sizes: 1° / 5° / 15° / 30° / 45°)
Interpupillary distance	Distance: 48–80 mm Approximately: 45–75 mm (Step size: 0.5/1.0 mm)
Myopia benchmark	50 cm (step length: 1 cm)
Prism	0 ~ 20 △ (general examination scope) (Step size: 0.1 △ / 0.2 △ / 0.5 △ / 1 △ / 2 △)
Crossed cylinder lens	Jackson cross-cylinder ±0.25 D Jackson cross-cylinder ±0.50 D Double-crossed prism (separating prism, 8△)
Ophthalmoscope	+1.5D (testing distance: 67 cm) +2.0 D (test distance: 50 cm)
Connectable devices	LCD visual acuity chart, visual acuity chart projector , visual acuity chart light box (internal projection), computerized refrac-tor
Auxiliary lens	
Open/close lens	Blocking plate
Pinhole lens	Φ 1mm
Ma's rod-like plates	Right eye (horizontal Marshals rod test), Left eye (vertical Marshals rod)
Red and green filters	Right eye (red), left eye (green)
Polarizing filter	Right eye (135°,45°), left eye (45°,135°) (circularly polarized linear polarization is optional)
Dispersive prism	Right eye (6△ BU), left eye (10△ BI)
Fixed-crossing cylindrical lens	Jackson Cross Cylinder: ±0.50 D, axis fixation at 90°

Environmental Requirements	
Operate	Temperature: +10°C to +40°C; Humidity: 30% RH to 75% RH Barometric pressure: 700 hPa–1060 hPa
Storage	Temperature: -25°C to +40°C; Humidity: 30% RH to 85% RH Barometric pressure: 700 hPa–1060 hPa
Transport	Temperature: -40°C to +70°C; Humidity: 10% RH to 95% RH Barometric pressure: 700 hPa – 1060 hPa
Other parameters	
Printer	Thermal printer (with automatic paper cutting)
Indicator	9.8-inch color LCD display
Fuselage	447(L) * 119(W) * 337(H)mm, 6.5 kg
Control keyboard	214(L) * 286 (W) * 171(H)mm, 1.0 kg
Adapter	135(L) * 65(W) * 36(H)mm, 0.3 kg
Voltage	AC 100 ~ 240V, 60 / 50 Hz
Power	140VA
Date of manufacture	Refer to the product conformity certificate.
Product service life	8 years
Carton size	495 mm * 415 mm * 388 mm
Parts List	
Optical examination head main unit	1 platform
Adapter	1 individual
Function keyboard	1 platform
Myopia target chart	1 block
Myopia benchmark	1 root
Thermal printing paper	2 Volume
Host power supply connector cable	1 root
232 Serial data cable	1 root
Main power cable	1 root
Inner hexagon spanner	Several
Bag film	1 PC
Operating instruction	1 portion
Warranty card	1 portion
Certificate	1 portion