



Simple...Fast...Precise...Powerful.....

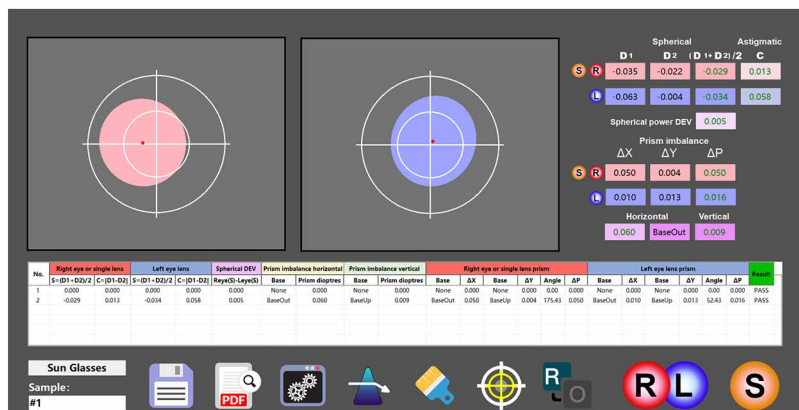


RPD-1

Electronic recording of visual assessment

Automation software with rich functions

One click test for spherical, cylindrical, and prismatic lenses of binoculars or individual lenses; And automatically calculate and judge the mutual differences between spherical mirrors and prisms based on standards. Generate a report. Batch testing list, which allows for testing and statistics of batch products. Generate Excel statistical data tables.



RPD-1 Software function

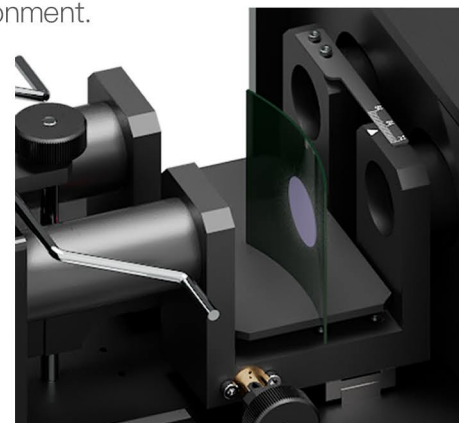
Display data:	Spherical, cylindrical, prism mutual difference.
Control method:	Windows desktop operations.
Target display:	Digital electronic cross simulation target
Analog imaging:	Spherical, Cylindrical simulation Image deformation.
Real image display:	Directly display the test spot.
Diopter report:	Detailed optical parameter and simulation charts.
Prism report:	binocular and monocular prism degree reports.
Test List Export:	Excel list export for batch full inspection of factories.
Standard selection:	Automatically screen standards based on sample types.

RPD-1 Specification parameters

ISO target:	Virtual ISO12311 Infinite Cross Target.
Target size:	Cross target, inner ring 0.12cm/m, outer ring 0.25cm/m
Display switching:	Virtual target display and actual imaging display can be switched
Magnification:	12x
Objective aperture:	φ20mm
Image acquisition:	Low-light level industrial camera.
Auto calibration:	Adaptive ambient light and support for open testing.
Tv calibration:	V(λ) Filter has peak transmittance at green wavelength
Built in filter:	Automatic light source calibration without manual input Tv calculation.
Test speed:	≤ 1.5 seconds (AI automatic calculation speed)
Indication error:	≤ ± 0.01D/≤ ± 0.003Δ
Test repeatability:	Repeat the test 100 times: ≤ 0.002D / ≤ 0.001Δ
Test scope:	Spherical -0.50D~+0.35D/Cylindrical -0.25D~+0.25D/ Prism 0~0.3Δ
Prism deviation:	Horizontal deviation of 0~0.6Δ/ Vertical deviation of 0~0.5Δ
Auto measurement:	Spherical, cylindrical, prism, prism angle, prism mutual difference.
Report output:	Binocular, single lens PDF report, including prism report.
Test sample:	Sunglasses, Goggles, Ski-goggles, Faceshields
Overall dimensions:	552W * 194D * 140H (mm)
Power supply:	100~240V AC 50/60Hz
Power:	10W (VA)

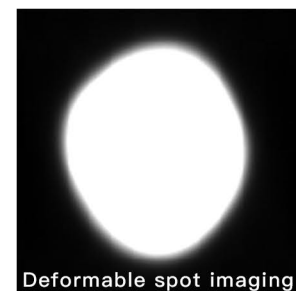
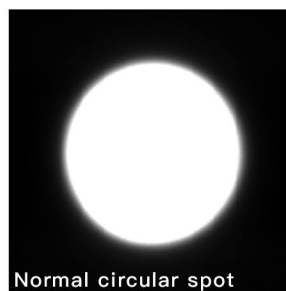
Adaptive detection light source

Fully automatic testing, without the need for manual input of lens transmittance. It can support open testing and improve the efficiency of batch testing work. Millisecond level dynamic detection of light intensity, adaptive adjustment of different color code samples and usage environment.



Evaluation of Lens Optical Imaging

Support the display of raw images for lens imaging, used to evaluate the optical performance of lenses other than spherical and prismatic indicators. For example, lens imaging distortion caused by spherical aberration and coma.



Compliant with standards

- EN 166-2002
- AS/NZS 1067.1-2016
- ISO 12312-1:2022
- ANSI Z87.1-2020
- ISO 12312-3:2022
- ANSI Z80.3-2018
- ISO 18527-1:2021
- CSA Z94.3:20
- ISO 18527-2:2018
- GB 39552.1-2020
- ISO 18527-3:2020
- GB 32166.1-2016
- ISO 16321-1:2021
- GB 14866-2006

