



PLUG & TOUCH BY RODENSTOCK

Easy operation. Easy integration.

REFRACTION SYSTEM
PHORMAT 2000 / RODACHART 420



Automated Phoropter



Chart Projector

- Easy and fast operation via touch screen
- Data display with high contrast LCD + integrated printer
- Different cross-cylinder + accurate rotary prism
- Communication with chart monitors CV 900/CV 700P, CV 1000P
- Equipped with all standard refraction tests

QUALITY IN DETAIL



Data transfer

Transfer the objective data from the Rodenstock lensmeter and autorefractors to the PHOROMAT 2000 and the subjective data to a local PC.



Easy operation

The Rodenstock refraction system is operated by one control keyboard and all settings can simply be performed by an electronic dial. Due to the coloured keyboard, the intuitive touch screen and the integrated printer, the operation is very easy and effective.



SPECIFICATIONS

Measurement range

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|-----------------|--|
| Spherical power | -29.00 ~ +26.75 D (0.12/0.25 D/1.00 D/ 2.00 D/3.00 D STEP) |
| Cylinder power | 0.00 ~ ±8.75 D (0.25 D/1.00 D/2.00/3.00 D STEP) |
| Cylinder axis | 0 ~ 180° (1° / 5° / 15° STEP) |
| PD | 48 to 80 mm (far) 50 to 74 mm (near) |
| Prism | 0 to 20 Δ (0.1 / 0.5 / 2.0 Δ STEP) |

Refractor head

| | |
|------------------|--|
| Auxiliary lens | Occluder, Pinhole (Ø 2 mm), Red / green filter, Polarising filter, Fixed cross cylinder lens (±0.50 D), Red Maddox rod, Dissociation prism (3, 6, 10Δ) |
| Cross cylinder | ±0.25D, ±0.50D, ±0.25D auto |
| Retinoscopy | +1.50 D (67 cm), +2.00 D (50 cm) |
| Visual field | 40° (VD=12mm), 39° (VD=14mm) |
| Level adjustment | ±2.5° |
| PD adjustment | monocular / binocular |

Near vision

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|-------------------------------|-------------------------|
| Working distance | 35 to 70 cm (5 cm STEP) |
| Near point chart illumination | LED |

Chart projector

| | |
|---------------------|------------|
| Chart change time | 0.2 sec |
| Chart magnification | 30x |
| Different charts | 42 |
| Projection distance | 2.5 to 8 m |
| Illumination type | LED |

Dimensions & electric requirements

Phoropter head

| | |
|----------------------|-------------------|
| Dimensions WDH | 410 x 65 x 320 mm |
| Weight | approx. 4.0 kg |
| Phoropter arm holder | Ø 21 mm ±0.5 mm |

Controller

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|-------------------|----------------------------------|
| Display | Colour TFT-LCD 10.4" touch panel |
| Printer | Built-in thermal |
| Dimensions WDH | 230 x 235 x 65 mm |
| Weight | approx. 3.3 kg |
| Input | AC 110~220V (±10%) |
| Power consumption | 220-270 VA |

Projector

| | |
|-------------------|--------------------|
| Dimensions WDH | 202 x 364 x 172 mm |
| Weight | approx. 4.7 kg |
| Input | AC 100~240V |
| Power consumption | 60 VA |



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