



# PLUG & TOUCH BY RODENSTOCK

Easy operation. Easy integration.

**REFRACTION SYSTEM**  
PHOROMAT 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

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

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

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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