



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

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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