

**RODENSTOCK** Instruments



Making analysis  
fashionable

# Phoromat 2000

Automated Phoropter

# The Phoromat 2000: Tune up your business



” The digital support provided by Phoromat 2000 really simplifies my refraction routine.

“

## What are your benefits?



### Precise refraction

Plenty of different visual tests



### Intuitive operation

Touch screen and ergonomic control panel



### Natural vision

Wide visual field of 40°



### Competency

One-click comparison of pre-exam and final refraction data



### Personalisation

Program user-defined test sequences



### Connectivity

Ready for connection to various products from RODENSTOCK Instruments

Your digital partner  
in consulting.

# Outstanding features



## Dual cross cylinder

Simultaneous presentation of both visual impressions

## Position control

A blue LED light indicates the correct position of the patients' forehead

## Smart assistance

Useful tips on optimal performance are displayed



## Data transfer

Wireless or cable connection to several products

## Near vision support

Automatic convergence and bright LED reading light

## Ergonomic use

Tilttable and rotatable display on the control box



# Specifications

## MEASUREMENT RANGE

Spherical power	-29.00 to +26.75D (0.12/0.25/1.00/2.00/3.00D step)
Cylindrical power	0.00 to $\pm 8.75D$ (0.25/1.00/2.00/3.00D step)
Cylindrical axis	0 to 180° (1°/5° step)
Pupillary distance	48 to 80 mm (far)/50 ~ 74 mm (near)
Prism	0 to 20 $\Delta$ (0.1 $\Delta$ /0.5 $\Delta$ /2 $\Delta$ step)

## REFRACTOR HEAD

Auxiliary lens	Occluder, pinhole ( $\phi$ 2 mm), red-green filter, linear polarising filter, fixed cross-cylinder lens ( $\pm 0.50D$ ), red Maddox rod, dissociation prism (3/6/10 $\Delta$ )
Cross cylinder	$\pm 0.25D$ , $\pm 0.50D$
Retinoscopy	+1.5D/+2.0D
Visual field	40° (VD = 12 mm)
Level adjustment	$\pm 2.5^\circ$
PD adjustment	Monocular/binocular

## NEAR VISION

Near vision	35 to 70 cm (5 cm steps)
Near point chart illumination	LED light

## DIMENSIONS AND ELECTRICAL REQUIREMENTS

### PHOROPTER HEAD

Dimensions WDH	410 × 65 × 320 mm
Weight	3.9 kg
Phoropter arm holder	$\varnothing$ 21 mm $\pm$ 0.5 mm

## CONTROL BOX

Dimensions WDH	230 × 235 × 65 mm
Weight	3.4 kg
Display	10.4" colour TFT-LCD with touch-panel
Printer	Built-in thermal

## POWER SPECIFICATIONS

Power source	AC 110/220 V ( $\pm 10\%$ )
Frequency	50/60 Hz
Power consumption	220-270 VA



CONCERN-ENERGOMASH

"Concern-Energomash CJSC  
26/8 Azatutyan ave., Yerevan, Armenia  
Tel.: +374 (11) 878717  
Mob.: +374 (44) 494540  
info@c-e.am | www.c-e.am

## Phoromat 2000 data communication\*

### Auto Ref-Keratometer

ALINO®  
CX 2000  
CX 800

RS-232C

### Chart Panel

CV Series

WiFi  
Bluetooth  
IR



### Chart Projector

Rodachart 422

RS-232C

### PC

RS-232C

### Lensmeter

AL Series

RS-232C  
WiFi

\*The availability of wireless data transfer depends on the hardware and software version of each product.