

COMPATIBLE CHART SYSTEMS

APH 450



CS 450



CS 200

	CS 450	CS 200
SCREEN SIZE	LCD SCREEN 19"	CHART PROJECTOR
BRIGHTNESS/CONTRAST	250 Cd/m ² - Contrast from 100% to 1%	
PROJECTION DISTANCE	2 to 6 m	2 to 7 m (3m recommended)
TESTS		Feet indication
Optotypes	Letters, Numerals, Snellen, Landolt rings, Ranges for children.	Letters, Numerals, Snellen, Landolt rings, Ranges for children.
Visual functions	Astigmatism, Cross-cylinder, Cross-grid, Worth for dot, Amsler grid test, Clock Dial, Binocular balance, Duochrome balance, Coincidence, Schober, Phoria, Lines (Horiz./Vert.), Minute stereo, Fixation point, Colour Visio, Eye Picture, Eyeball exercise, Child animation.	Astigmatism, Cross-cylinder, Cross-grid, Worth for dot, Binocular balance, Duochrome balance, Coincidence, Schober, Phoria, Lines (Horiz./Vert.), Minute stereo, Fixation point, Eye picture.
DIMENSIONS AND WEIGHT	475(W) mm x 432(H) mm x 71(D) mm - 5 kg	204(W) x 260(H) x 313(D)mm - 3.8kg
POWER SUPPLY	100 - 240 V AC 50/60 HZ CE marking conformity	AC 100 - 240V, 50/60 Hz CE marking conformity
MEASURING RANGE	APH 450	AUXILIARY LENS
Pupillary distance	48 ~ 80 mm	Red/green filter
Sphere	-29.00 D ~ 26.75 D (0.12/0.25/0.5/1.0/2.0/3.0 D)	Polarising filter
Cylinder	-8.75 D ~ + 8.75 D (0.25/0.5/1.0/2.0/3.0 D)	Prism
Axis	0° ~ 180° (1° / 5°)	6 Δ / 10 Δ
Prism	0 ~ 20 Δ (0.1/0.2/0.5/1 / 2 Δ)	Red/Horizontal (Right) Green/Vertical (Left)
CONVERGENCE (NEAR-VISION)		Lens for retinoscopy
DIMENSIONS AND WEIGHT	370(W) x 82(D) x 299/358(H) mm - 4kg	Cross cylinder (±0.50D)
		Pin hole
		POWER SUPPLY
		DC 24 V 60 W 50 / 60 Hz CE marking conformity

PRODUCT FUNCTIONS



APH 450



APH 450

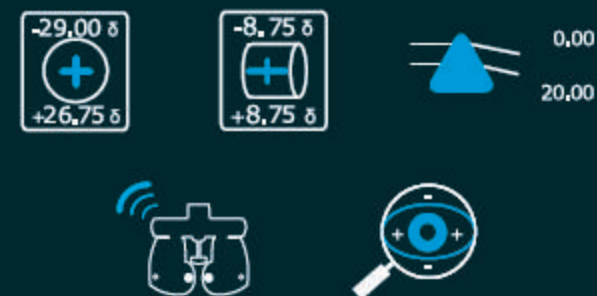
AUTOMATIC REFRACTOR



Instruments Division
64 bis, avenue Aubert
94306 Vincennes Cedex France
Tel: 33 (0)1 72 94 71 00
Fax: 33 (0)1 72 94 70 27
www.essilor-instruments.com

Your contact:
Optometrics

www.optometrics.com
sales@optometrics.com
Tel. (305) 863-4144



Optometry



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EXPERIENCE DIGITAL REFRACTION DIFFERENTLY

The **APH 450** is a motorised phoropter that will appeal to practitioners experienced with manual refractors as well as those already familiar with automatic systems. With its innovative tablet-driven interface, it adapts to every refracting situation, streamlining workflow while enhancing your expertise in the refraction room.



FASTER REFRACTION PROCESS

- Phoropter and vision test chart can be controlled in one screen, significantly reducing total refraction time.
- Entering data from a lensmeter or AKR, the system ensures refraction starts as close as possible to the final prescription.
- Allows you to compare new and old prescriptions at the touch of a button.

RK		FINAL		LM	
SPH	CYL	SPH	CYL	SPH	CYL
-0.75	-0.75	-0.50	-0.50	-1.50	-2.25
-0.75	-0.75	-0.50	-0.50	-0.50	-0.75
0	0	170	170	175	175
32.0	32.0	0.50	0.50	0.00	0.00
		32.00	32.00	32.00	32.00

A PROFESSIONAL EXPERIENCE

- Freed from time-intensive manual refraction, you can focus more on your patients during the exam.
- You control the entire refraction process at a comfortable distance from your patient.
- The tablet also offers a convenient way to share information and results instantaneously with patient.



VERSATILE FOR AUTO OR MANUAL USE

- The APH 450 application is highly intuitive with easily-accessible commands all grouped onto one screen. It adapts to every working method with a choice of two operating modes:
- **Manual Operation Mode** performs all routine manual refraction tasks and provides the traditional practical experience to users more comfortable with a manual phoropter.
- **Auto Operation Mode** offers a more streamlined refraction sequence following pre-programmed steps, giving you more freedom of movement.

OPTIMISED EXAMS AND FOLLOW-UP

Program	SPH	CYL	AXIS	PD	ADD	Δ	Unlinked VA	Added VA
1	0.05							
2	0.5, 0.6, 0.7							
3								
4								
5	0.05							
6								
7								
8								

Customisable refraction sequences

Automated functions and quick exam protocols to optimize your personal test requirements and fit individual needs.

FAR	SPH	CYL	AXIS	PD	ADD	Δ	Unlinked VA	Added VA
OD (R)	0.50 D	-0.50 D	170	32mm	0.00	0.00 BU	0.40	1.00
OS (L)	0.50 D	-0.50 D	170	32mm	0.00	0.00 BU	0.60	1.00
ADD-VA					OD: 0.05	/	OS: 0.05	

Customer database

Refraction data can be easily saved to facilitate ongoing monitoring of patients.

WIRELESS CONNECTIONS

+ The system is programmed for immediate integration and use via wireless connectivity.

+ The installation is simple - with no wiring required.