

VISION-R 800



DID YOU KNOW?

95%

of the population
is more sensitive
than the traditional
0.25D increment⁽¹⁾.

Since the invention of the phoropter in 1929, there has been no major innovation in subjective refraction techniques.

The process has always consisted of presenting lenses of different powers in fixed increments of 0.25D steps in front of the patient's eyes, and bracketing towards the final power to reveal the best visual acuity performance.

A NEW ERA OF VISION PERFORMANCE

Essilor's state-of-the-art phoropter reinvents subjective refraction and prescription, enabling a personalized prescription with a resolution 25 times higher. For the first time, the individual dioptric sensitivity of the patient⁽²⁾ is accounted for.

This more precise and easier-to-perform refraction results in more accurate prescriptions for your patients – with the potential to maximize their vision performance⁽³⁾.

1. Study conducted by Essilor® – 146 patients between 18yo and 65yo – Singapore – 2016.
2. Patient dioptric sensitivity: smallest dioptric step identifiable by the patient, calculated during the refraction protocol.
3. Claim of vision superiority only with AVA™ lenses. Study: AVA™ in-Life Concept Use Test – Independent third party – France – 2021 – N=105.



PHOROPTER HEAD



CONSOLE



TO BE ORDERED WITH VISION-C 600 OR CS POLA 600

PHOROPTER SPECIFICATIONS

CENTERING

Interpupillary distance

49.0 to 80.0mm at far distance (in 0.50mm steps)
55.0 to 83.0mm at near distance (in 0.50mm steps)

Binocular and monocular adjustments
Convergence

Automatic, compared to the position of the target for near vision and to the patient's pupillary distance
From 4.0 to 30.0mm in 0.1mm steps, monocular, measured by cameras

Vertex distance

MEASUREMENT RANGE

Sphere

From -20.00D to +20.00D

Cylinder

Up to 8.00D dependent on lens combinations for both Sphere and Cylinder:
- In "Standard" mode: 0.25D increments, adjustable to 0.05, 0.10, 0.25, 0.50, 1.00 and 2.00D
- In "Smart" mode: 0.01D increments
0° to 180° in 1° increments, with adjustable steps
0 to 20 Δ in 0.1 Δ increments, with adjustable steps

Axis

Prism

AUXILIARY LENSES

Occluders

Dark

Pin hole

Yes

Retinoscopic lenses

+1.50D, +2.00D (powered by optical module)

Fog lenses

+1.50D, +2.00D (powered by optical module)

Jackson cross cylinders

± 0.25D, ± 0.5D (powered by optical module)

Fixed cross cylinders

± 0.50D (powered by optical modules)

Prisms

3 Δ base up / 3 Δ base down, 6 Δ base up, 10 Δ base in (powered by varying prisms / diasporameters)

Maddox rods

Red, horizontal and vertical

Red/green filters

Red on right eye, green on left eye

Polarized filter

Both linear and circular

DIMENSIONS AND WEIGHT

Head of the phoropter

Width: 29.6cm at top – 21.9cm at bottom / height = 22.2cm
Depth: 8.4cm at top – 6.5cm at bottom
Total weight: 3.5kg

Console (keyboard + screen)

Keyboard: 28x22cm
Screen display: 10.4"
Total weight: 3.0kg

Power supply

Length: 16.3cm
Width: 19.3cm
Depth: 5.8cm
Total weight: 1.0kg

CE

As improvements are made, these specifications are not contractually binding and may be modified without prior notice.
Vision-R™ 800 is a medical device CE class I intended for subjective refraction. Please read the instructions for use attentively.



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OFFER THE VISION
YOUR PATIENTS DESERVE



VISION-R 800

REINVENTING PRESCRIPTION



1 BENEFIT FROM OUR BREAKTHROUGH TECHNOLOGY FOR AN UNPRECEDENTED PRECISE PRESCRIPTION

With the Vision-R™ 800, you will benefit from Digital Infinite Refraction™ technology, thanks to the combination of:

- a state-of-the-art patented lens module that reinvents the refraction method by simultaneously controlling sphere, cylinder and axis
- patented Smart Program algorithms that automatically change the phoropter lenses based on the patient's response

BREAKTHROUGH
TECHNOLOGY:
OPTICAL MODULE
>



- Continuous power changes at 0.01D increments
- Simultaneous power changes (Sphere, Cylinder & Axis)
- Instantaneous power activation

THIS MORE PRECISE AND EASIER-TO-PERFORM REFRACTION OFFERS YOUR PATIENTS THE VISION THEY DESERVE

DID YOU KNOW?

An innovative refraction method:
Digital Infinite Refraction™

The automatic Digital Infinite Refraction™ technique has been proven to be as accurate as the academic standards used at the University of Indiana, USA⁽⁴⁾.



A MORE PRECISE REFRACTION LINKED TO THE PATIENT'S DIOPTRIC SENSITIVITY

Digital Infinite Refraction™ technology results in a 0.01D refraction while automatically calculating the personal dioptric sensitivity of each patient. This unique step makes each change and response relevant while preserving ultimate precision.



PRESCRIBE VISION PERFORMANCE (PVP™)

Thanks to extensive research, a unique step has been introduced into the prescription process, allowing the ECP to transform a 0.01D subjective refraction into the most precise prescription. The patented PVP™ image is loaded with real-life cues to better stimulate the visual perception of the patient. By combining the personal dioptric sensitivity step with the PVP™ image, the patient is able to give clearer responses, allowing you to deliver a prescription that unites comfort and performance.

4. Study: AVA™ clinical evaluation of patients' experience – third independent party – US – 2019-2020 – N=116 – AVA™ experience and not only refraction.

2 DIFFERENTIATE YOUR PRACTICE. HIGHLIGHT YOUR EXPERTISE & BOOST YOUR SALES

A PRESCRIPTION WITH THE POTENTIAL TO MAXIMIZE VISION PERFORMANCE⁽⁵⁾

DID YOU KNOW?

74%

of patients will seek out the Vision-R™ 800 after experiencing the eye exam⁽⁶⁾.



Vision-R™ 800 is one of the only phoropters which allows you to refract down to 0.01D and prescribe according to the sensitivity of the patient.

1 HIGHLIGHT YOUR EXPERTISE

Perform a highly accurate subjective refraction, more precise than a traditional one⁽⁹⁾.

2 DIFFERENTIATE YOUR PRACTICE

Give your patient a unique experience and access to precise personalized lens solutions⁽⁹⁾.

3 BOOST YOUR SALES

Significantly increase your average basket value and in-store conversion rate, drive patient traffic and build long-term loyalty⁽⁷⁾.

VISION-R 800

AN EASIER PROCEDURE

The patented Smart Program algorithms automatically change the phoropter lenses simply by recording your patient's answers. The easy-to-use procedure and simple interface help you leverage your expertise to the fullest.

5. Study: AVA™ clinical evaluation of patients' experience – third independent party – US – 2019-2020 – N=116 – AVA™ experience and not only refraction.
6. AVA™ Lenses and market examples.
7. The 0.01D lens gives you access to exclusive lens solutions which sells for a higher price. Already introduced in several markets where this impact can be seen.

3 A PROVEN SUPERIOR EYE EXAM EXPERIENCE PREFERRED BY PATIENTS⁽⁸⁾

EASY TO PROVIDE AN ANSWER

Patient-specific adjusted dioptric increments all along the refraction procedure, ending with the exact sensitivity of the patient, make each step relevant and easy to understand.

THE PERFECT STIMULI

For the optimum response, show the patient the appropriate stimuli, such as the Patented PVP™ images used during the prescription step. By using all the right cues, you will drive patient perception towards comfort and performance.

✓ VISION C-600



DID YOU KNOW?

The Vision-R™ 800 provides a **superior eye exam experience** that is more efficient, more comfortable and less stressful than a traditional eye exam experience⁽⁹⁾.



A MORE NATURAL EXPERIENCE

Thanks to continuous power and silent lens changes, the patient experiences a more fluid exam with a wide field of vision.

A CONVINCING COMPARISON

Instantaneous power comparisons on real-life images inspire more confidence and improve willingness to purchase.

OFFER THE VISION YOUR PATIENTS DESERVE



8. Claim of vision superiority only with AVA™ lenses. Study: AVA™ in-life Concept Use Test – Independent third party – France – 2021 – N=105.
9. Study: AVA™ clinical evaluation of patients' experience – third independent party – US – 2019-2020 – N=116.