



MAGNIFY PATIENT EXPERIENCE.  
EXPAND PATIENT TRAFFIC.  
WITH ONE COMPACT STATION.



## VISION-S 700

IMMERSIVE REFRACTION  
STATION



# ENTER A NEW ERA OF REFRACTION WITH THE VISION-S 700

The Vision-S™ 700 refraction station is designed to meet the world's growing demand for refraction due to lifestyle changes, intensive screen use and aging populations. It revolutionizes the refraction process, massively enhances the patient journey and has the potential to transform the retail organization.

Approved by experts, its **ultra compact design and immersive experience** make it a game-changer, giving you the potential to increase refraction capacity dramatically and boost your business.

## THE MORE REFRACTIONS, THE MORE BUSINESS

Your store's success depends on the volume of refractions that convert into frames and lenses. A good refraction is the first and most important step to a satisfied customer. When it is both accurate and comfortable, it can have a snowball effect on revenues.

## GREAT UNTAPPED POTENTIAL

Out of 5 billion people globally that deserve correction, only 2 billion were tested in the last three years. This massive shortfall translates into a huge potential to increase business and develop your practice.

## THE DILEMMA

The dilemma is how to increase store refraction capacity without compromising on accuracy or patient experience, and without having to incur more costs.



THE VISION-S™ 700 REFRACTION STATION TRIGGERED THE FILING OF 15+ PATENT APPLICATIONS.

## OUR SOLUTION FOR INCREASING REFRACTION CAPACITY: AN ULTRA COMPACT DEVICE WITH A UNIQUE IMMERSIVE EXPERIENCE



The Vision-S™ 700 refraction station is the answer to increasing refraction capacity and growing your business. It not only incorporates gold standard accuracy and a rapid 3-minute refraction, it goes further: it concentrates a complete refraction room into an immersive station while offering patients a totally new experience.

Consisting of a stand-alone tabletop subjective refraction unit, the Vision-S™ 700 refraction station incorporates Essilor's Digital Infinite Refraction™ method. The patented display screens simulate near and far distance. In a virtual world of specially developed life-like images, the patient is led into a 'wide as infinity' world of immersive imaging.

## REVOLUTION IN REFRACTION

1. With the Digital Infinite Refraction™ method, we make refraction more direct and accurate.
2. The need for the traditional patient-chart distance is eliminated, enabling you to expand refraction capacity thanks to a significant gain in space.
3. A unique and exclusive immersive patient experience drives traffic, helps convert sales and transforms your overall business potential.

## KEY FEATURES AND BENEFITS

Boost your business with just one device:

- Gold standard accuracy
- Faster
- Space-saver
- Improved patient comfort
- Drives patient traffic
- User-friendly
- Increased lens conversion

WE SHAPE THE FUTURE OF REFRACTION



## EXPAND REFRACTION CAPACITY WHILE ENSURING ACADEMIC ACCURACY



The Vision-S™ 700 refraction station multiplies your refraction capacity through speed, accuracy and ease-of-use making it a smart component for any ambitious business.

### FAST AND ACCURATE

The powerful state-of-the-art patented lens module and algorithms provide a rapid 3-minute refraction with proven accuracy. This liberates time for the ECP to develop the patient relationship and to showcase solutions.

- 3-minute refractions made possible by a layered liquid lens combined with algorithms, allowing for vectorial refraction and a more direct procedure.
- Smart Program recommendation feature takes into account the existing prescription, objective refraction and age for a more direct route to the result.
- Reliable results limit comebacks resulting in cost-savings.

### SO EASY AND ACCESSIBLE

The exclusive Algorithms and guided Smart Programs simplify the refraction exam. By simply recording the patient's answers, the Smart Programs and Algorithms together with the optical module properties enable automatic calculation of the refraction result. The continuous and smaller increment possibilities combined with the secured automatic protocol contributes to greater accuracy.

Program recommendations and operator guidance from start to finish simplify the procedure for an extremely user-friendly protocol.



### BUILT ON EXCLUSIVE INNOVATION

The exclusive **Liquid Lens Optical Module**, developed and patented by Essilor Instruments, provides simultaneous and continuous power changes, true power, wider field of vision, instant power and silent lens changes for greater patient comfort.

Thanks to the optical module, **Essilor's Digital Infinite Refraction™** method automatically compensates for the effect that any change in sphere, cylinder and axis has on one of the other dimensions.

The exclusive set of **Smart Programs and Algorithms** ensure a complete refraction in only 3 minutes with an academic accuracy of 0.25D, even striving for higher accuracy by using variable and smaller increments.



## FREE UP THE SPACE YOU NEED AND GROW YOUR BUSINESS

### A REFRACTION ROOM IN ONE SMALL DEVICE

The Vision-S™ 700 refraction station is one of the most compact refraction stations ever created, a device that manages to encompass all the power, and more, available in the most cutting-edge traditional-sized refraction room. The usual patient-chart distance of 20 ft (6 meters) is no longer necessary thanks to exclusive distance simulation technology that allow it to test enhanced near capabilities through to infinity within the device itself.

The Vision-S™ 700 refraction station shrinks the universe of the traditional refraction room into a compact station that takes just a tenth of the usual space. During the exam, the patient experience is expanded to a wide and infinite field of vision.

### ALL THAT NEW SPACE LEAVES ROOM FOR MORE BUSINESS

Its ultra compact design frees up valuable floor space, enabling you to reinvent your practice in imaginative new ways.

- Free up extra space to create additional refraction lanes or other income generating activities.
- Develop a small store concept thanks to the ultra compact design.
- Create new opportunities such as pop-up or mobile stores to expand your coverage.

### CONTROLLING THE EXAM ENVIRONMENT

By controlling the environment, it is possible to make exceptional performance the new standard:

- Control multiple distances, protocols and lighting for ultimate accuracy.
- Harmonise patient experience.
- Promote patient loyalty with uniform, high quality experiences throughout multiple locations.

### BUILT ON EXCLUSIVE INNOVATION

The unique design and architecture of the Vision-S™ 700 refraction station employs patented technology using parallel light within the device to dispense with the need for traditional patient-chart distance.



# 3

## WHEN REFRACTION BECOMES AN EXPERIENCE TO REMEMBER... BOOSTING YOUR SALES

### GIVE YOUR PATIENTS A NEW EXPERIENCE

The Vision-S™ 700 refraction station incorporates a unique immersive technology that engages customers with a novel immersive experience, driving sales and repeat business. Designed to promote the sale of a complementary pair, it plunges the patient into life-like scenes and transforms the refractive experience.

### SHOW THE PRESCRIPTION IN ACTION

To illustrate the prescription, a unique module places the patient in real-life simulations, selected on the basis of consumer studies on how impactful situations influence purchasing behavior. The patient can clearly compare the before and after refraction results and make better informed purchase decisions.

### HOW THE IMMERSIVE EXPERIENCE CAN BOOST YOUR BUSINESS:

- Seeing prescription in action builds confidence for additional purchases.
- SunRx converter increases the conversion rate of a complementary pair.
- Subtle progression from refraction to sales.
- Incorporates the upselling step into the exam procedure, patients see it professionally, leading to improved sales.
- Generates traffic through word of mouth.



### BUILT ON EXCLUSIVE INNOVATION

**A patented new imaging technology** creates an immersive experience. In traditional testing, patients use only roughly 6° of their visual field; with the Vision-S™ 700 refraction station, this rises to 32° conferring a strong immersive and relaxed feeling for a better patient experience. **Video images that imitate** a near-miss accident scene and illustrate the prescription in action were developed by Essilor in partnership with cognitive experts.





STATION



CONSOLE

## TECHNICAL SPECIFICATIONS

### CENTERING

Pupillary Alignment

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

Binocular  
and monocular adjustments

Convergence

automatic, compared to the position of the target for near vision  
and to the patient's pupillary distance

Vertex distance

from 4.0 to 30.0 mm in 0.5 mm steps, monocular, measured by cameras

### MEASUREMENT RANGE

Sphere

from -20.00 D to +20.00 D

Cylinder

up to 8.00 D depending on the lens combination.  
Cylinder from -7.00 D to 8.00 D with sphere at 0 D

Measuring Steps

- In "Standard" mode: 0.25 D increments with adjustable steps  
- In "Intelligent" mode: multiple larger and smaller increments

Axis

0° to 180° in 1° increments, with adjustable steps

Prism

0 to 20 Δ in 0.1 Δ increments, with adjustable steps

### AUXILIARY LENSES

Occluders

Dark

Pin hole

Yes

Retinoscopic lenses

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

Fog lenses

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

Jackson cross cylinders

± 0.25 D, ± 0.50 D (powered by optical module)

Fixed cross cylinders

± 0.50 D (powered by optical module)

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

### DIMENSIONS AND WEIGHT

Compact refraction units

Length = 64.0 cm / Width: 32.5 cm / Depth: 55.0 cm / Total weight: 16 Kg

Console (keyboard + screen)

Keyboard: 28 x 22 cm / Screen display: 10.4" / Total weight: 3.0 Kg

### LEDS

Visible white LED

Color: sunrise / Chromaticity CCT: 2700 K / Flux: 7 lm / Class: NC

Visible white LED

Color: white / Chromaticity CCT: 5000 K / Flux: 35.9 lm / Class: NC

(Vertex distance) – Not used at the moment

Infra-red LED

Color: IR / Wavelength: 850nm / Energy intensity: 50mW/Sr / Class: NC

Infra-red LED

Color: IR / Wavelength: 850 nm / Radiant intensity: 1000mW/sr / Class: 2

### INPUT/OUTPUT

Compact refraction unit

AC Input: 100-240V; 50/60Hz; 2.3 – 1.1A DC

Output: 24V; 141.6 Watt

USB port (x4): DC Output 5V; 2A.

Console (keyboard)

AC Input 24V, 2A

### FUSE

T 4AH 250V / T 4AH 250V

As improvements are made, these specifications are not contractually binding and may be modified without prior notice. Vision-S™ 700 is a trademark of Essilor International.



ESSILOR INTERNATIONAL

147 rue de Paris, 94220 Charenton-le-Pont - France

Tél. : +33 (0)1 49 80 62 80

www.essilor-instruments.com

