



Intelligent Blocker
ICE-1



THE ART OF EYE CARE

Multifunctional blocker,
with the pursuit
of user-friendliness



ICE-1

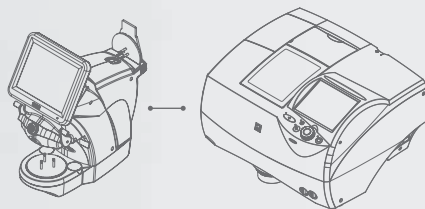
Intelligent Blocker

The ICE-1 is an easy-to-use intelligent blocker with consistent accuracy and stability in blocking. As developed with emphasis on usability for anyone, from beginners to advanced, this instrument offers operators a remarkably comfortable experience. Various editing functions that realize customer's demands can be used intuitively on the screen.

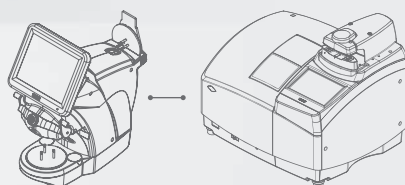
In combination with NIDEK lens edgers, it offers a smooth, highly efficient workflow for making eyeglasses. This is a solution that renders a comfortable workspace for any operator.

System configurations

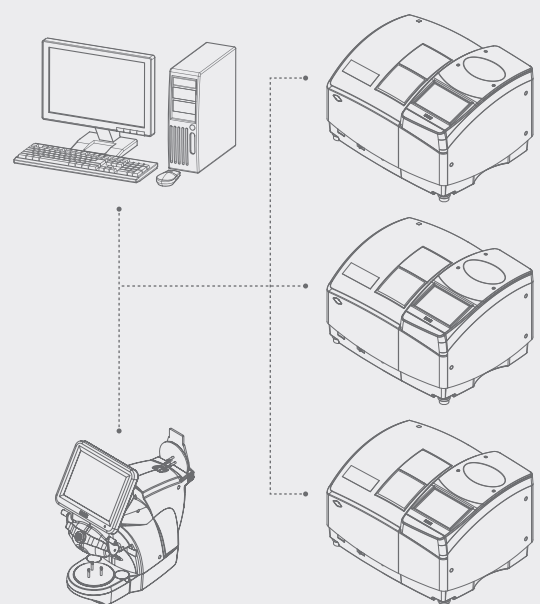
- ▶ with Me series
For multi-purpose lens edging



- ▶ with LEXCE Trend series
For highly efficient lens edging



- ▶ with iRx Server (server software)
For high volume production



Sensible mechanical design



The sensible mechanical design allows the operator to confirm lens shape and data images simultaneously.

A large 8.4-inch color LCD touch screen shows lens shape and layout information in real scale with high visibility contrast. The storage space for accessories is designed to enable easy storage and accessibility.

One touch blocking

A single finger is all that is required for the ICE-1 blocking. The blocking motion is accurate, quick, and comfortable without needing extra pressure or effort. Two types of lens tables are provided, standard and mini-size.



Flexible lens stage (optional)

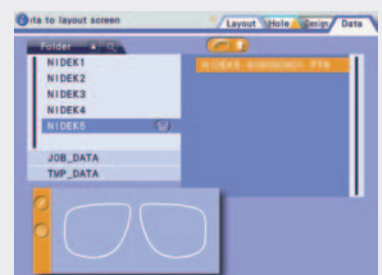
The flexible lens stage oscillates, keeping the front base curve of the lens at the optimal horizontal position. The stabilized lens position reduces the gap and prevents sliding or movement of the lens. Therefore, highly precise blocking is consistently obtained.



Data management function

The data management feature allows data storing, searching, and recalling of traced data. A maximum of 30,000 patterns can be saved. Data can also be saved to a USB flash drive* as backup.

*USB flash drive is optional.



Shape imager function

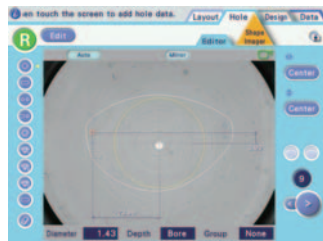
The shape imager function can detect the outer shape of a demo lens or pattern.



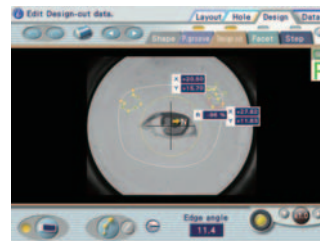
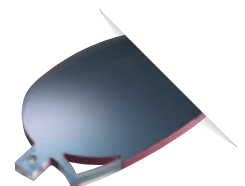
Hole & design edit function

With an easy-to-understand display and comfortable operation using a stylus pen and numeric keys, hole and lens shape can be edited as easily as anyone could expect.

1. Hole editor



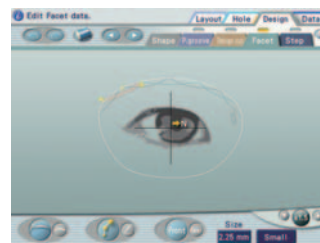
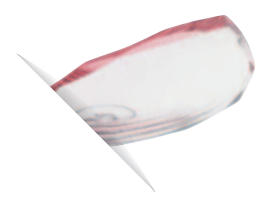
4. Design cut editor



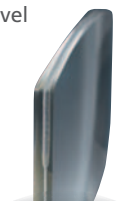
2. Shape editor



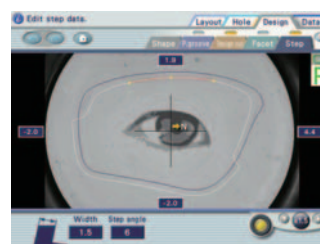
5. Facet editor



3. Partial groove/bevel editor



6. Step / partial step editor



ICE-1 Specifications

Lens size	Lens diameter: ϕ 110 mm or less
Layout span	FPD: 30.00 to 99.50 mm PD (or 1/2 PD): 30.00 to 99.50 mm (15.00 to 49.75 mm) Height of the optical center: 0 to \pm 15 mm Size adjustment: 0 to \pm 9.95 mm WD: 15.0 to 45.0 mm EP: 0.0 to \pm 6.0 mm
Item to be entered	FPD (or DBL) PD (or 1/2 PD) Height of the optical center (frame center, BT height, PD height) EP (height of the distance eye point of progressive lens) Shape size Lens material (CR-39, Hi-index, Polycarbonate, Acrylic, Trivex, Urethane, Glass) Frame type (Metal, Plastic, Optyl, Two Point, Nylon) Processing mode (Auto, Guide, HC Auto, HC Guide, Step Auto, Step Guide, Flat) Lens type (Single, Multi, Progressive, Demo lens) Job code
Shape imager function	Measurement range: 65.5 x 49.0 mm (\pm 1.5 mm) Hole position: 0.01 mm increments Hole diameter: ϕ 0.50 to 10.00 mm (0.01 mm increments)
Blocking method	Manual blocking
Display	8.4-inch SVGA color LCD touch panel
Interface	RS-232C - 4 ports Ethernet - 1 port USB - 1 port
Power supply	100 to 240 V AC, 50/60 Hz
Power consumption	60 VA
Dimensions/Mass	225 (W) x 411 (D) x 439 (H) mm / 7.5 kg 8.6 (W) x 16.2 (D) x 17.3 (H)" / 16.5 lbs.
Standard accessories	Shape measurement table, Lens table (standard), Small diameter lens table, Stylus pen, Pen stand, Cap, Shading cover, Ferrite core, LAN cable (cross), Power cord
Optional accessories	External barcode scanner, USB flash drive, WECO cup holder, flexible positioning adjuster R/L, spatula, special clay, RS-232C cable

Specifications and design are subject to change without notice.

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