



# Intelligent blocker Ice900



THE ART OF EYE CARE

# Intelligent blocker *Ice 900*

The Ice 900 is NIDEK's newest Automatic Blocker, which complements the NIDEK Lens Edger line-up. It boasts high accuracy, easy viewing and swift operation.

## New Graphic Design



"Smart screen" design provides the operator with an information bar and on-screen tutorial for ease of use. In addition, layout and grinding conditions are easily entered on the color-coded 8.4-inch SVGA touch screen display.

## Quick Twin Jog Dial



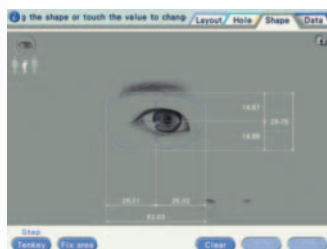
In addition to the intuitive operation of touch screen, data can also be entered by the use of the twin "quick jog" dials. The left jog dial moves the cursor for layout and grinding condition selection, while the right jog dial is used to enter numerical values/changes.

## Tiltable Display



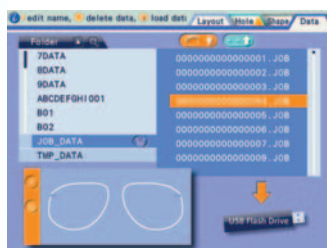
A unique Tilt Display allows the LCD operation screen to be viewed at four different angles from 27° to 60°, making it ergonomically friendly whether in a sitting or standing position. The lowest angle position (27°) matches that of our Lex 1000 and Le 1000 lens edgers.

## Shape Editor Function



This function allows the operator to freely design lens shapes with the use of a stylus pen, while still viewing the original lens shape. The background displays a rendition of a human face (eye and nose) in three varying forms: woman, man and child. Therefore, the operator can edit the shape of the lens while viewing it in relation to the face of a "virtual patient".

## Data Management



The data management feature allows 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 (optional).

## Motor Drive Blocking



The all new motorized lens blocking process takes only two seconds, greatly increasing productivity. Since excessive blocking pressure can cause lens coating deterioration when the block is removed, the Ice 900 applies the appropriate blocking pressure, and protects lens from the damaging. In addition, the block adapter is ideally positioned for easy and comfortable block loading.

## Flexible Lens Stage



The flexible lens stage continuously applies upward stabilizing pressure, keeping the front base curve of the lens at the optimal horizontal position. In turn, the stabilization of the blocking surface yields the highest blocking precision.

## Integrated Shape Imager (ISI)



The ISI function detects any demo lens or pattern, including those for rimless drill mounts, and identifies hole position. Moreover, the ISI function automatically compensates horizontal axis. The operation is supported by a "Wizard Tutorial" directly viewed on the screen of the unit, featuring user-friendly instruction.

## Partial Step Measurement



The optional partial step package provides automatic measurement of the partial step data of the demo lens. With partial step edging of the Multifunction Edger Me 1200\*, the partial step package allows the prescribed spectacle lenses to be mounted into the frame of sports sunglasses, and helps to meet the request of a demanding customer.

\* Available for PLB-8S and PLB-2R8S types

## Accessory Tray



An accessory tray is provided to store small items. The Integrated Shape Imager table, spare fuses, and small-diameter lens holder are all stored under the tray.

## System Configurations

The Ice 900 can be connected to any of NIDEK's lens edgers in a multitude of configurations.

## Ice 900 Specifications

|                       |                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lens size             | Dia. 85 mm or less                                                                                                                                                                                                                                                                                                                                                                                      |
| Layout span           | FPD : 30.00 to 99.50 mm<br>PD (or 1/2 PD) : 30.00 to 99.50 mm (15.0 to 49.75 mm)<br>Height of the optical center : 0 to $\pm 15$ mm<br>Size adjustment : 0 to $\pm 9.95$ mm<br>WD : 15.0 to 45.0 mm<br>EP : 0.0 to 6.0 mm                                                                                                                                                                               |
| Item to be entered    | FPD (or DBL)<br>PD (or 1/2 PD)<br>Height of the optical center<br>(BT height and PD height can be selected)<br>Lens size<br>Lens material (Plastic, Plastic lens with high refractive index, Glass, Polycarbonate, Acrylic, Trivex, Polyurethane)<br>Frame type (Metal, Celluloid, Nylon, Two point)<br>Grinding mode selection<br>Lens type (Single, Multi (Bifocal), Prog. (Progressive))<br>Job code |
| Shape imager function | Measurement range : 65.5 x 49.0 mm ( $\pm 1.5$ mm)*<br>Hole position : 0.01 mm increments<br>Hole diameter : $\phi 0.5$ to 10.0 mm (0.01 mm increments)                                                                                                                                                                                                                                                 |
| Blocking method       | Motor drive                                                                                                                                                                                                                                                                                                                                                                                             |
| Display               | 8.4-inch SVGA color LCD touch panel                                                                                                                                                                                                                                                                                                                                                                     |
| Interface             | 4 RS-232C, 1 LAN (10 / 100 Base-T)                                                                                                                                                                                                                                                                                                                                                                      |
| Power supply          | AC 100 to 120 V / 230 V<br>50 / 60 Hz                                                                                                                                                                                                                                                                                                                                                                   |
| Power consumption     | 50 VA                                                                                                                                                                                                                                                                                                                                                                                                   |
| Dimensions / Mass     | 256 (W) x 367 (D) x 352 (H) mm / 8 kg<br>10.1 (W) x 14.4 (D) x 13.9 (H) " / 17.6 lbs.                                                                                                                                                                                                                                                                                                                   |
| Standard accessories  | Spare fuse, Interface cable, Stylus pen, Power cord,<br>Lens table for shape imager, Small-diameter lens holder                                                                                                                                                                                                                                                                                         |
| Optional accessories  | Barcode scanner, USB flash drive, Partial step package                                                                                                                                                                                                                                                                                                                                                  |

\* 80.0 x 55.0 mm ( $\pm 1.5$  mm) for partial step measurement. Some part of the lens can't be measured.

Specifications and design are subject to change without notice.



Eye & Health Care

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