NIDEK

*Intelligent Blocker*

# Ice 1000


THE ART OF EYE CARE

# Ice 1000

## *Melody of Intelligence*

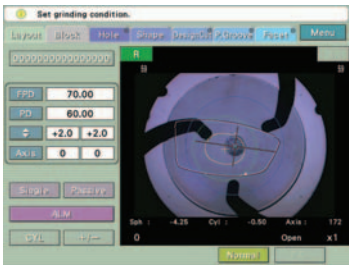
***– Enhanced intelligence provides the maximum comfort in the complex process of blocking lenses***

The *Ice 1000* is a highest-class automatic blocker ever.
In addition to its blocking functions it can also read the outline shape of a demo lens for rimless drill mounts, create a hole position, edit shapes and manage data. The *Ice 1000* can do everything necessary for processing a lens. It works in perfect combination with the NIDEK lens edger families, the *Lex 1000*, and the *Me 1200*.

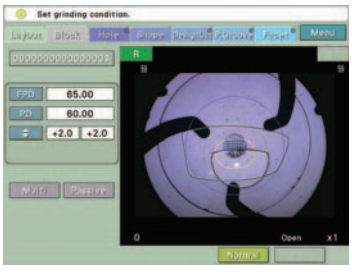

1

# Top-class Accuracy

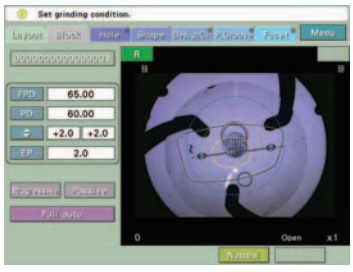
*Measurement accuracy is at its highest level with the newly designed optical systems of the latest technology. Lenses with weak power can be measured properly and progressive lenses can be detected automatically. Errors caused by prismatic effect are eliminated.*



Single Vision Mode



Multi-focal Mode



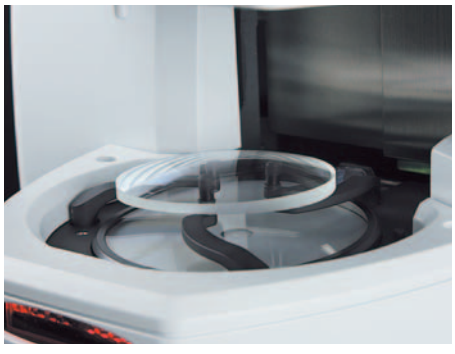
Progressive Mode

## Lens Clamping Mechanism

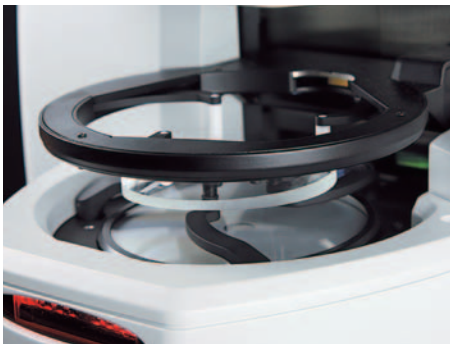
The *Ice1000* features a unique lens clamp which secures the lens automatically. It enables the blocking of super-hydrophobic lenses without risk of axis shift.

Open position for Integrated Shape Imager

Closed position for lens blocking (multi-position lens stage is motorized)



Set the lens on the stage



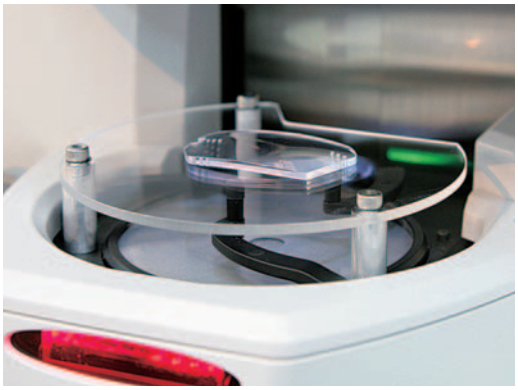
Clamp keeps lens in a steady position while blocking

# Integrated Shape Imager *with hole edit function*

*With lens measurement table, The Ice1000 accurately and automatically reads the outline shape of a demo lens.*
*Hole positions are set on the touch panel using a demo lens. Setting hole positions is easy, as images are enlarged on the display.*

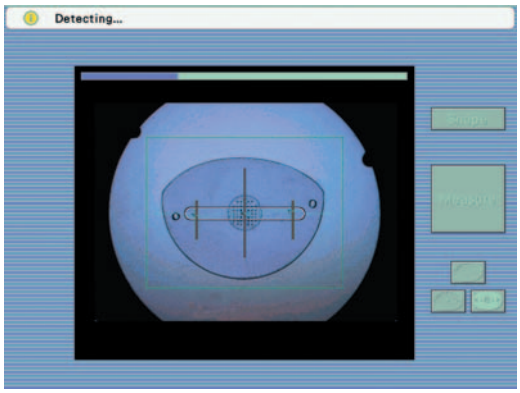
## Step 1 *Measure the lens shape.*

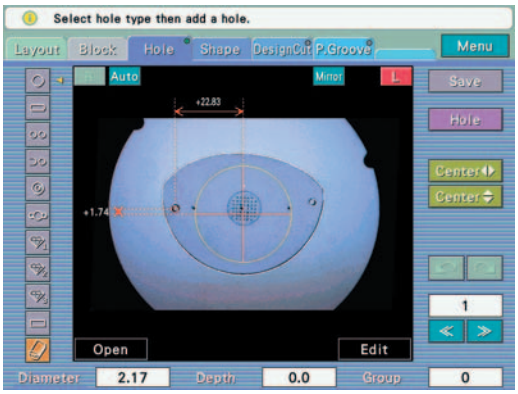
Select the hole tab and set the demo lens on the table. The *Ice1000* automatically and accurately digitizes the lens shape without the need of painting the edge by a marker.
(Some particular demo lenses may require painting on the edge for automatic shape reading.)



## Step 2 *Measure the hole position automatically.*

The *Ice1000* can automatically read the circumference, hole position and horizontal axis of the demo lens from the image taken with a COMS camera. Processing data can be made extremely easily.



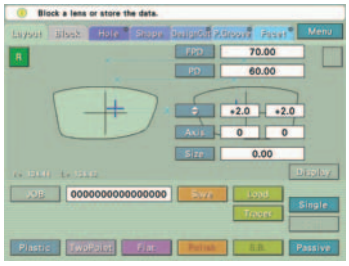

## Step 3 *Check the data and the job is complete.*

Input data will be displayed for review. Data can be saved as a pattern.

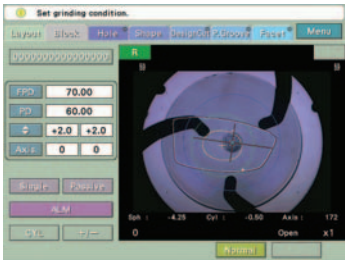
# Operation

## High-performance editing

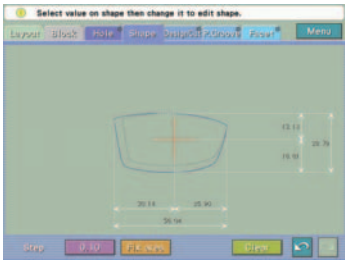
The *Ice 1000* has an array of editing functions that can support the *Me 1200* complex operations such as hole creation, Advanced Shape Editor, Design Cut, Partial Grooving and Facet. It is well suited for managing the edited data for processing on the *Me 1200*. Thumbnail images are shown in the data management display which is helpful when searching for missing data.



Layout

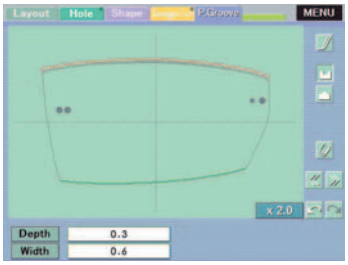


Blocking

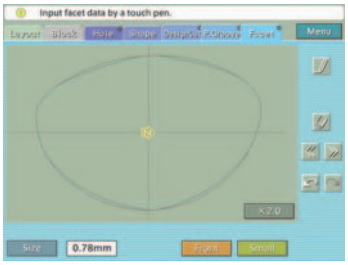


Shape Editor

Design Cut



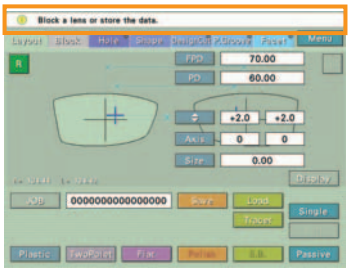
Partial Grooving



Facet

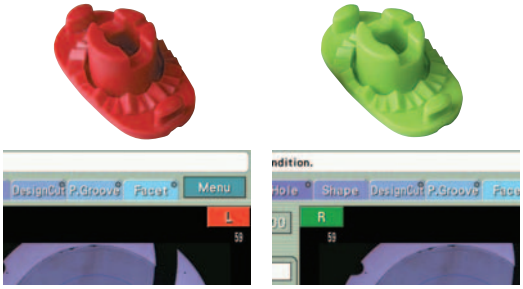
## Information Bar

Even first-time users can easily operate the *Ice 1000* using the Information Bar which provides useful "next-step" information.



## Color-coded Lens Identification

To aid the lens edging process, the display of the *Ice 1000* utilizes a color-coding system adapted from navigational light colors, to identify right and left lenses: green represents the right lens and red represents the left lens. Red and green cups are included. You can avoid processing the wrong lens by following the color-prompted indicator on the display.



# Utilities

*This unit has two RS-232C ports and a LAN port. This unit can drive multiple devices and operate as a server for small to medium sized labs.*


## Rx Data Management

The *Ice 1000* can store and serve Rx data which contains holes, Design Cut, Partial Grooving and Facet. Data viewer is convenient for finding stored shape data.

## USB Flash Drive Port

Rx data is stored to USB flash drive, which is unlimited based on the size of the USB flash drive device and or PC hard drive the *Lex 1000* to the *Ice 1000* is also possible. Data management is easy and flexible.

## Rotating Cup Adapter

The cup adapter is turned right-side up, making accurate cup insertion easy.

## Large Touch Panel Display

The *Ice 1000* features a large color display making it extremely user-friendly. Even first time users can easily operate the unit, following the "next step" instructions of the Information Bar.

## Color Camera

The unit is equipped with a color camera with high accuracy and auto-brightness control. It works well with all tinted lenses, gradient tints and polarized lenses.

## Built-in Barcode Scanner (optional)

The *Ice 1000*'s integrated barcode scanner saves lab space and streamlines the lens finishing process.

# Color selection

You can choose a side panel color to best suit your practice. A beautiful Lavender color (standard) or stylish Silver Mica* color are available.

*option only available in some countries

Lavender (standard)

Silver Mica (option)

# System feasibility

## Connection to lens edgers

The *Ice 1000* can be connected to the *Lex 1000*, *Me 1200*, and *SE-9090* series. The *Ice 1000* is compatible with the VCA protocols.

*Lex 1000 & Lex Drill*
It is possible to send trace data and hole data.

*Me 1200*
It is possible to send data including hole, Design Cut, Partial Grooving and Facet.

*Lex 1000*
Shape data only.

# Ice 1000 / Ice 1000NT Specifications

| Model | Ice 1000 | Ice 1000NT |
|---|---|---|
| Tracer | Built-in | None |
| Lens size | Dia. 80 mm or less | ← |
| Layout span | FPD: 30.0 to 99.5 mm<br>PD (or 1/2 PD): 30.0 to 99.5 mm (15.0 to 49.75 mm)<br>Height of the optical center: 0 to ±15.0 mm<br>Size adjustment: 0 to ±10.0 mm | ← |
| Item to be entered | FPD<br>PD (or 1/2 PD)<br>Cylinder axis<br>EP (eye point height of progressive lens)<br>Lens size<br>Lens material (Plastic, Plastic with high refractive index, Glass, Polycarbonate, Acrylic, TRIVEX)<br>Frame type (Metal, Celluloid, Nylor, Rimless)<br>Grinding mode selection<br>CYL (+/- switching)<br>Job code | ← |
| Lens measuring mode | Single vision mode: Full auto / Mark detection<br>Multi focal mode: Segment detection<br>Progressive mode: Print mark / Print mark angle / Point mark<br>Manual mode<br>Demo lens block mode | ← |
| Shape imager function | Measurement range: 65.0 x 50.0 mm (±1.5 mm)<br>Hole position: 0.01 mm increments<br>Hole diameter: ø0.5 to 10.0 mm (0.01 mm increments) | ← |
| Blocking method | Auto | ← |
| Power supply | AC 100 to 120, AC 200 to 240 V, 50 / 60 Hz | ← |
| Power consumption | 100 VA | ← |
| Dimensions / Mass | 325 (W) x 507 (D) x 345 (H) mm / 24.0 kg<br>12.8 (W) x 20.0 (D) x 13.6 (H) " / 52.9 lbs. | 325 (W) x 507 (D) x 345 (H) mm / 18.0 kg<br>12.8 (W) x 20.0 (D) x 13.6 (H) " / 39.7 lbs. |
| Standard accessories | Power cord, Spare fuse, Interface cable, Stylus pen, Pattern setting unit, Standard frame, Standard pattern, Accessory case, Blower, Frame change holder, USB flash drive, Lens measurement table | Power cord, Spare fuse, Interface cable, Stylus pen, Accessory case, Blower, Frame change holder, USB flash drive, Lens measurement table |
| Optional accessories | Barcode scanner | ← |

Specifications and design are subject to change without notice.

Eye & Health Care
**NIDEK CO., LTD.**


**HEAD OFFICE**
34-14 Maehama, Hiroishi
Gamagori, Aichi 443-0038, Japan
Telephone : +81-533-67-6611
Facsimile : +81-533-67-6610
URL : http://www.nidek.co.jp
**[Manufacturer]**

**TOKYO OFFICE**
**(International Div.)**
3F Sumitomo Fudosan Hongo Bldg.,
3-22-5 Hongo, Bunkyo-ku, Tokyo
113-0033, Japan
Telephone : +81-3-5844-2641
Facsimile : +81-3-5844-2642
URL : http://www.nidek.com

**NIDEK INC.**
47651 Westinghouse Drive
Fremont, CA 94539, U.S.A.
Telephone : +1-510-226-5700
: +1-800-223-9044 (US only)
Facsimile : +1-510-226-5750
URL : http://usa.nidek.com

**NIDEK S.A.**
Europarc
13, rue Auguste Perret
94042 Créteil, France
Telephone : +33-1-49 80 97 97
Facsimile : +33-1-49 80 32 08
URL : http://www.nidek.fr

**NIDEK TECHNOLOGIES Srl**
Via dell'Artigianato, 6 / A
35020 Albignasego (Padova), Italy
Telephone : +39 049 8629200 / 8626399
Facsimile : +39 049 8626824
URL : http://www.nidektechnologies.it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