NIDEK

Intelligent blocker

Ice 1000

Eye & Health Care
NIDEK

Ice 1000

Melody of Intelligence

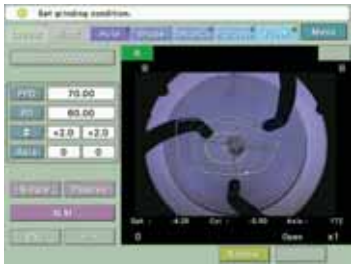
– Enhanced intelligence provides the maximum comfort in the complex process of blocking lenses

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, *Lex 1000*, *ME-1000* and *ME-1000 DESIGN+*.

1

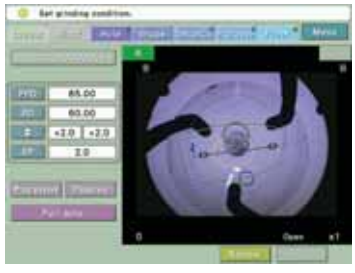
Top-class Accuracy

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



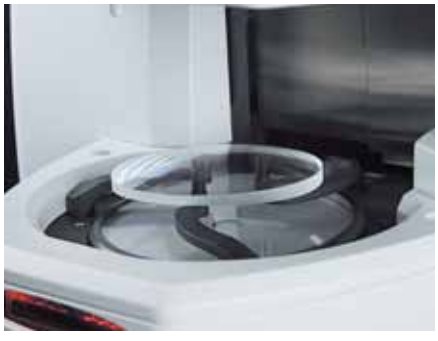
Progressive Mode

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

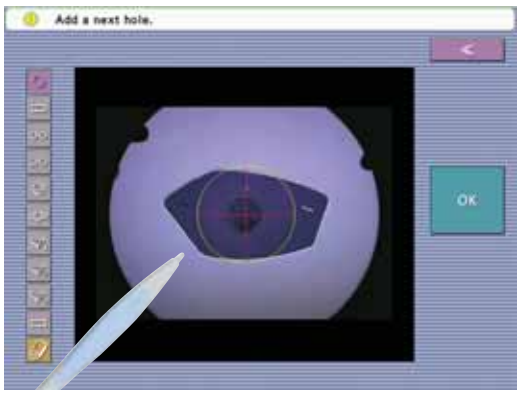
The Ice1000 accurately and automatically reads the outline shape of a demo lens. Hole positions are set on the touch panel using a demo lens. Setting hole positions is easy, as images are enlarged on the display.

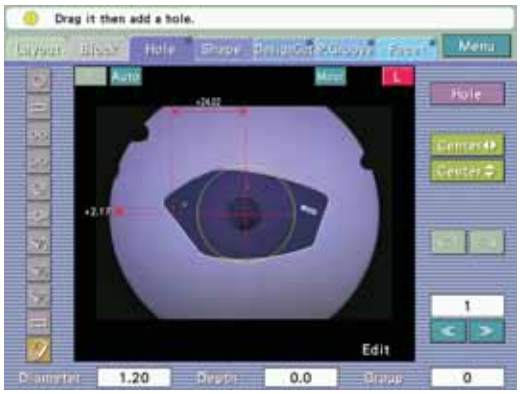
Step 1 *Measure the lens shape.*

Select the hole tab and set the demo lens on the stage. 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 *Set hole positions and diameters.*

Set the hole position on the LCD touch panel from the projected demo lens. Each hole image will be automatically enlarged for precise setting of position and diameter.





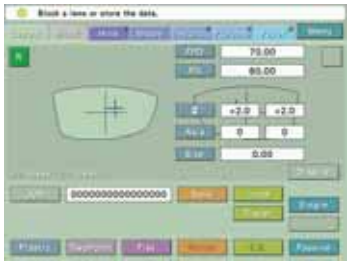
Step 3 *Check the data and the job is complete.*

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

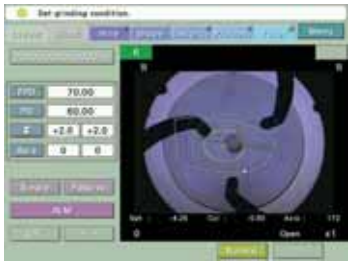
Operation

High-performance editing

The *Ice1000* has an array of editing functions that can support *ME-1000 DESIGN+* 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-1000 DESIGN+*. Thumbnail images are shown in the data management display which is helpful when searching for missing data.

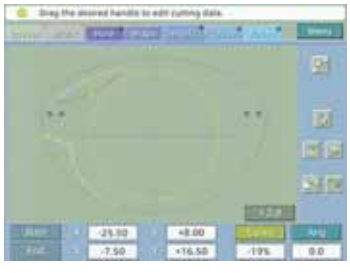


Layout

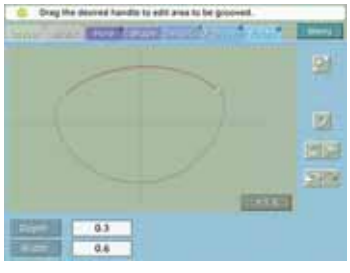


Blocking

Shape Editor



Design Cut



Partial Grooving

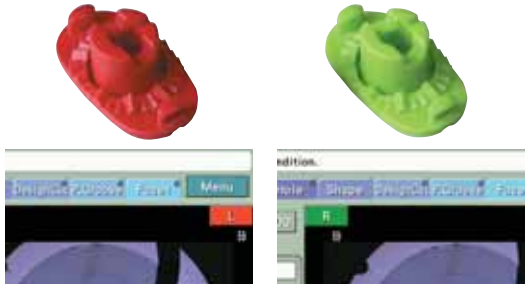
Facet

Information Bar

Even first-time users can easily operate the *Ice1000* using the Information Bar which provides useful “next-step” information.

Color-coded Lens Identification

To aid the lens edging process, the display of the *Ice1000* 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

Ice1000 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 Memory Port

Rx data is stored to USB memory, which is unlimited based on the size of the USB memory device and or PC hard drive *Lex1000* to *Ice1000* 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 *Ice1000* 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 Reader (Optional)

The *Ice1000*'s integrated barcode reader 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

Ice1000 can be connected to *Lex1000*, *ME-1000/DESIGN+*, and *SE-9090* series. *Ice1000* is compatible with the VCA protocols.

Lex1000 & Lex Drill
It is possible to send trace data and hole data.

ME-1000 / ME-1000DESIGN+
It is possible to send data including hole, Design Cut, Partial Grooving and Facet.

Lex1000
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 PD (or 1/2 PD) :30.0 to 99.5 mm (15.0 to 49.75 mm) Height of the optical center :0 to ±15.0 mm Size adjustment :0 to ±10.0 mm	←
Item to be entered	FPD PD (or 1/2 PD) Cylinder axis EP (eye point height of progressive lens) Lens size Lens material (Plastic lens, Plastic lens with high refractive index, Glass lens, Polycarbonate lens, Acrylic lens, TRIVEX lens) Frame type (Metal frame, Celluloid frame, Nylor frame, Rimless frame) Grinding mode selection CYL +/- Job code	←
Lens measuring mode	Single vision mode :Full auto / Mark detection Multi focal mode :Segment detection Progressive mode :Print mark / Print mark angle / Point mark Manual mode Demo lens block mode	←
Blocking method	Auto	←
Power supply	AC100 to 120, AC200 to 240 V , 50 / 60 Hz	←
Power consumption	100 VA	←
Dimensions / Weight	325 (W) x 510 (D) x 345 (H) mm / 23.4 kg 12.80 (W) x 20.08 (D) x 13.58 (H) " / 51.59 lbs	325 (W) x 510 (D) x 345 (H) mm / 18.0 kg 12.80 (W) x 20.08 (D) x 13.58 (H) " / 39.68 lbs
Standard accessories	Power cord x1, Spare fuse x2, Interface cable x1, Touch-panel pencil x1, Pattern setting unit x1, Standard frame x1, Standard pattern x1, Accessory case x1, Blower x1, Frame change holder x1, USB memory x1	Power cord x1, Spare fuse x2, Interface cable x1, Touch-panel pencil x1, Accessory case x1, Blower x1, Frame change holder x1, USB memory x1
Optional accessories	Barcode scanner	←

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*Specifications and design are subject to change without notice for improvement.

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