



Everything about

UNICOS



UNICOS



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UNICOS Co., Ltd. is Health-Care Product developing and manufacturing Venture Company in South Korea.

We are established in 2002 and our main goal is to realize Health and Happiness of Human Being.

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CE
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Auto Refract - Keratometer ^{3D} URK-900F

One Touch Alignment, Tracking, Focus & Capture.

URK-900F is used to determine the initial, objective refractive values for a patient's eyes in the workflow of refraction and to determine the optical prescriptions for myopia, hyperopia and astigmatism.



3D Auto Alignment Function

3 Dimensional movement mechanism enables to track down a measuring focus of an eye automatically and complete the measurement for eyes by auto shooting automatically.

URK-900F 3D Auto Focusing System

URK-900F can determine the best position for precise focusing with the help of high resolution scanner.

LCD Tilting & Swiveling

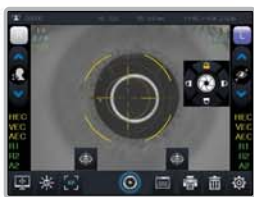
The LCD moves freely and can be measured anywhere, LCD Tilting & Swiveling to 270° and provide a monitor reverse function.

Auto Cutting Printer

The printer cover can be opened and closed by pushing a button, making it easy to replace a paper. Embedded printer allow print a measurement data without noise. Also, it cuts paper automatically after printing.

You can check abnormal crystalline lenses, cataracts and scratches of corneas to see how healthy patient's eyes are. With an enforced REF power, you can check SPH, CYL, and Axis that could not be measured in a normal mode.

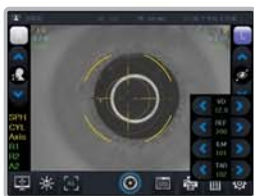
URK-900F User-oriented GUI



Peripheral Keratometry



Mode Select



Retino Illumination



URK-900F Provides a various measurement Mode

Ref / Ker / Ref&Ker / Illumination / CLBC / KP Mode, Pupil Size Measurement.

Peripheral Keratometry

It may measure periphery of cornea both horizontally and vertically from the center of cornea to get curvature and eccentricity value of all points. It may allow the best fitting for contact lenses.

Temperature compensation system

It provides a reliable measurement by our unique temperature compensation system. Considering measurement environment by temperature, it may reinforce the accuracy of optometry.

Support for many languages

It serves many languages, basically 10 languages. (English, Spanish, Chinese, Japanese, German, French, Italian, Portuguese, Russian and Korean)

Various languages besides the above may be served according to the requirement of customer.

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Auto Refractometer - Keratometer URK-800A

More Wide LCD & More Intuitive User Interface.

You can check how much crystalline lens are blurred by cataract and cornea is injured. At the same time, Save 2 cuts for each eye (Max.4 cuts for one patient), Furthermore may compare the captured data.



Advanced Measurement Technology

The image chips to be specially designed allow REF measuring speed to be faster to get a more accurate and stable measurement data.

8" Touch and Color Display

User can enjoy more clear images with specially designed image chips and 8 inch color TFT LCD. It serves swiveling and tilting to allow a convenient communication between examiners and examinees.

Quick and Automatic Cutting Printer

The printing paper with data is cut automatically with high speed.

Easy measurement

User can move new chin rest just by pressing a button and new designed sensors prevent an user from doing wrong operation in advance.

Convenient User Menu Setting

The operator may alter set-up easily and faster by an unique design.

Measure Iris and Pupils Diameters

By image capture function, user can check Iris & Pupil diameters with ease to reinforce the accuracy of optometry.

Illumination

You can check abnormal crystalline lenses, cataracts and scratches of corneas helping you to see how healthy patient's eyes are. With an enforced REF power, you can check SPH, CYL, and Axis that could not be measured in a normal mode.

Peripheral Keratometry

It may measure periphery of cornea both horizontally and vertically from the center of cornea to get curvature and eccentricity value of all points. It may allow the best fitting for contact lenses.

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Automatic Cutting Printer



Retino Illumination



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Auto Refract - Keratometer URK-800F

More Wide LCD & More Intuitive User Interface.

You can check how much crystalline lens are blurred by cataract and cornea is injured.
At the same time, Save 2 cuts for each eye (Max.4 cuts for one patient), Furthermore may compare the captured data.



SPECIFICATIONS

Keratometry

Radius of Curvature	5.0 ~ 10.2 mm
Corneal Power	33 ~ 67.50 D
Corneal Astigmatism	0.00 ~ -15.00 D (0.12 / 0.25 D)
AXIS	1 ~ 180°
Corneal Diameter	2.0 ~ 12.00 mm

Refractometry

Vertex Distance (VD)	0.0, 10.0, 12.0, 13.5, 15.0 mm
SPH	-25.00 ~ +22.00 D (0.12 D / 0.25 D)
CYL	0.00 ~ +/-10.00D
AXIS	1 ~ 180°
Cylinder Form	-, +, +/-
Pupil Distance	10 ~ 85 mm
Minimum Pupil Diameter	∅ 2.0

Designs and details can be changed without prior notice for its improvements.



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Auto Refract - Keratometer URK-700A

The best Strategic Refract - Keratometer.

7" LCD Wide Touch Screen is applied to URK-700A to allow an easy operation and to make an accurate diagnosis more quickly.



7" Colored Touch LCD

A measurement data and various functional program appear in color on a high clear and precise 7 inch Touch Wide LCD screen.

Comfort and Easy Operation

Mechanically, the main body moves smoothly right to left and forward to backward by an improved design for a base sliding structure.

Communication interface

A data communication is available among the related diagnostic devices by RS-232 and USB.

Embedded Printer

Convenient paper provision and paper replacement with a minimized printer problem.

Convenient User Menu Setting

The operator may alter set-up easily and faster.

Convenient S/W Update

S/W update could be done by USB memory easily and conveniently.

Support for many languages

It serves many languages, basically 10 languages. (English, Spanish, Chinese, Japanese, German, French, Italian, Portuguese, Russian and Korean)

Various languages besides the above may be served according to the requirement of customer.

Embedded Printer



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Digitalized Refractor UDR-800

Eco-Friendly antibacterial material is applied.

Ensure faster restarting time, faster lens change and a reduced operating noise. UDR-800 will lead your business to be successful.

8" Full-Colored Touch LCD Panel

It could serve clear distinct UI so that it may serve high resolution graphic.

Realize UI with various images and distinguish the condition of Operation Panel and data by serving various colors. (Locking system function, Prismoff, Auxoff function, External data representation and Touch masking function, etc.)

Minimized number of buttons

26-Button and simply touch to operate easily.



Short cut key button for often used functions

- Operating test data through jog dial. (SPH, CYL, AXIS, ADD, VA, Prism, etc.)
- Menu selection through jog dial.
- Additional functions and data value selection through jog dial.
- Shortcut key button function.



Monocular PD measurement.

Worldwide Various Chart Support.

LCD Monitor Tilting function and Screen reversal function.

Embedded printer.

Help and Real-time Guide function.

It could serve upgrading program and A/S functions by USB port.



Auto Lensmeter ULM-800

The UNIQUE of UNICOS Lensmeter.

ULM-800 meets requirements of market with UNICOS' High Technology and Modern Design. It serves quick response and reliable data to be a maximized satisfaction for user convenience.



LCD Rotated 110°



Compact Lens Table



A functioning figure

7" Color & Full Graphic LCD

Normal Lens Measurement, Progressive lens Measurement, UV Measurement and PD. Specially designed chips back up more clear graphic user interface, noticeable icons. Serve a convenient use-environment for user with intuitive and familiar UI and Touch Screen.

110° Tilted Full Touch Monitor Display

LCD monitor with 7 inch Full-Color Touch Panel is designed to view till 110° for user convenience. It allows noticeable icons and Intuitive and familiar GUI provide an efficient operation without a specialized knowledge.

Compact Lens Table

Compact lens table allows an accurate and a stable measurement for a small-sized glasses, a children's glasses, high curved glasses and so on without any interference.

Marking Device (Ink Cartridge)



Long-lasting & Accurate representation.

Cleaner and wider screen with 7 inch Full-Color LCD Touchscreen.

It serves wide measurement range (-25D ~ +25D) and could measure Refraction, Astigmatism and Prism at the same time. Progressive lens, Bifocal lens, Trifocal lens, Hard contact lens, Soft contact lens are measurable. Single vision lens or Progressive lens could be detected automatically and switched quickly to corresponding measurement mode to measure various lenses without adjusting ABBE number.

UV Measurement

UV penetration ratio could be measured simply and accurately by easy operations and shows a result in the range of 0% to 100% for a various lenses including sunglasses.

High-Speed printer & Compatibility

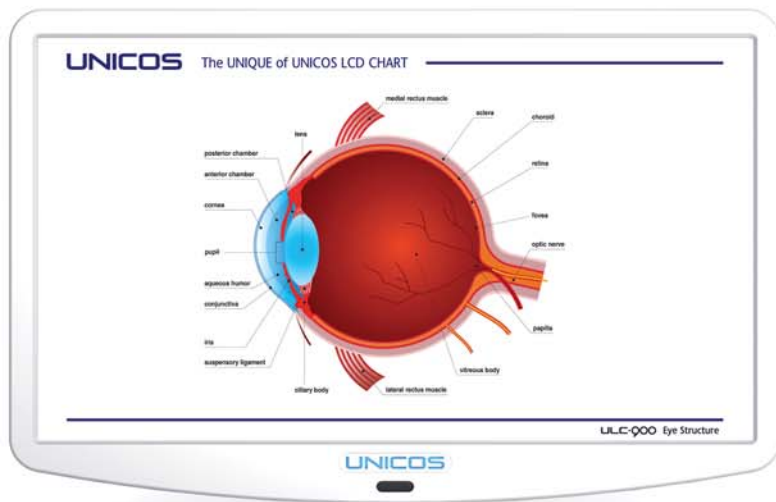
High-Speed printer shows necessary data to user. ULM-800 could be easily compatible with all of UNICOS' products.



LCD Chart ULC-900

The UNIQUE of UNICOS LCD Chart.

ULC-900 provides the most reliable test result by the technology to be developed by UNICOS to all types of patients. All of user may have the best experience with ULC-900 by easy and convenient operation and program.



24" TFT LCD onitor

24 inch TFT monitor with high-resolution display for wider and clearer view.

Various installation methods for securing enough space even in a limited area.

High performance polar filters

Keep charts clear between the range of 1.5M ~ 7.5M test distance by high performance polar filters.

Heterophoria / Heterotropia / Stereopsis tests with polar separation charts.

Installation distance

May control installation space from 1.5M up to 7.5M by 0.25m.

May use of Mirror functions at the small space.

White-black contrast



It allows to test LASIK patients.

Numbers of different charts

Landolt , Snellen, Child chart, Cross chart and more. Masking mode with single character, horizontal line, vertical line and more.

Visual functions and special functions for all types of patients such as cataract, strabismus and the other. Easy image addition in Slide mode from USB flash drive.

General charts (Snellen, Landolt, Numbers, Characters, Children)

Back 0.05 ~ 2.00 charts by test distance up (Children 0.1~1.0) Horizontal, Vertical, Single character mask and Center indication Red / Green filters / Random charts.

Control System

A remote control for a prompt and convenient test. It is compatible with UNICOS' Digital Refractor.

Color-blindness test

Preset seven type's charts / Random selection function.

CE

Auto chart projector **LED** ACP-900

The UNIQUE of UNICOS LED Chart.

Various and Perfect Projection Charts
Four different types with 41 charts may show clear and bright images for a proper vision test.



Chart Projector using LED

The color of LED may be altered according to customer's preference.

LED to be applied to ACP-900 provides more clear, bright, and precise chart images. No need to change lamp because of long life cycle. The color of LED may be altered according to customer's preference.

Speedy Chart Switch

Prompt and fast Charts alternation time may allow an effective optometry environment for inspectors.

Remote Control

Using remote control makes chart change more comfortable and stable.

Attractive Design

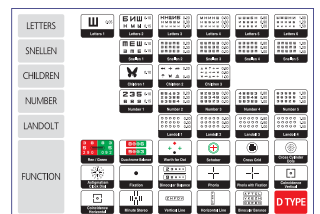
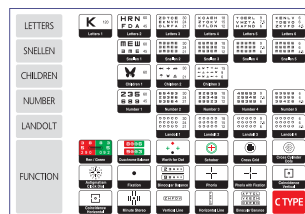
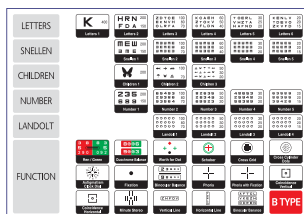
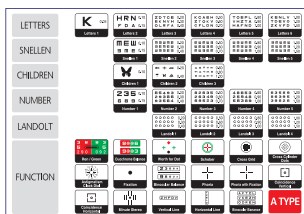
Rounded body and a blue-colored front make it more modern.

Small Size and Light Weight

Downsizing and light weight make better use of a space effectively.



Chart Type (A / B / C / D)



High Technology-Intensive masterpiece of UNICOS 900F System.

Networking system

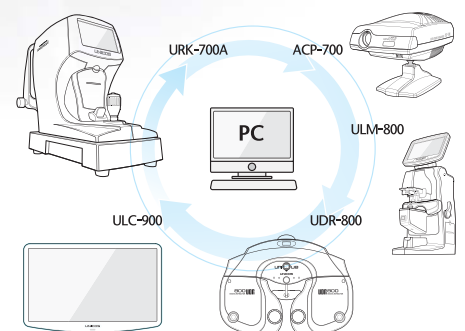
Efficient data transmission among a series of UNICOS brands.



UNICOS 700A System to maximize cost-effectiveness.

Networking system

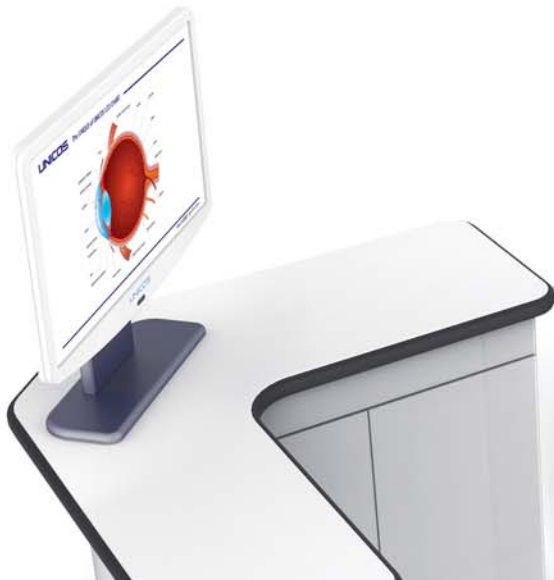
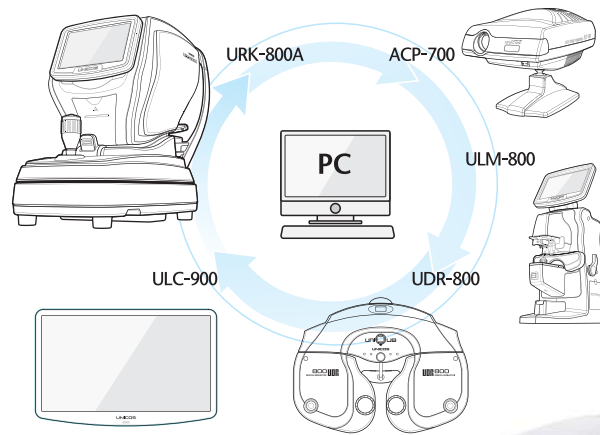
Efficient data transmission among
a series of UNICOS brands.



UNICOS 800A System to be Widespread all over the world.

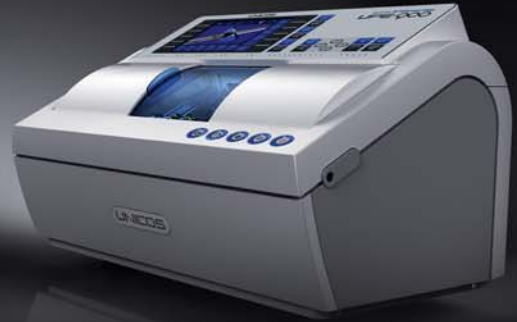
Networking system

Efficient data transmission among a series of UNICOS brands.



CE

The UPE-900 is a patternless edger which can edge all materials and perform all type of finishing : Automated controlled bevel or customized, mini bevel for metal frames and rimless finish.



UPE-900 Groove



Front Depth



Rear Depth



The UNIQUE of UNICOS EDGER
UPE-900

State-of-the-art 3D Patternless Edger.



The built-in safety bevel – grooving functionality is totally adjustable by the operator who can modify all parameters (width, depth) using the colour touch screen simply.

Simplicity

All edging parameters are adjustable via the intuitive operator's interface.

The large Colour Touch Screen offers a clear understanding of the edging program.

The lens shape can be easily modified to fit the optician needs.



- 3D Patternless Lens Edging for Lab
- Grooving & Chamfering
- User Friendly Operation
- OMA compliance



The UNIQUE of UNICOS TRACER
UPT-900

State-of-the-art Tracer.



High Precision 3D Tracing

The UPT-900 tracer measures with extreme care frames in 3D to offer the best possible accuracy and a perfect matching between the lens and the frame, even highly curved.

Fast tracing

The UPT-900 tracer may scan either both eyes or single eye rapidly.

It also has an automatic recovery feature to rescan the frame automatically at reduced speed in case the quality of a frame does not allow a fast speed tracing.

Universal

The UPT-900 tracer may scan small frames (B size 17 mm) with a constantly real-time monitored stylus pressure to reduce frame distortion.

The important Z movement capacity allows the measurement for high base-curved frames.

- Wireless Communication
- 1:n Communication
- Size Adjustable through computer
- OMA Compliance

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The UNIQUE of UNICOS AUTO BLOCKER
UPB·900A

State-of-the-art Auto Blocker.

Optimum performance with unique features.

Optical High Precision Tracing

As automatic blocker, high technology built-in image processing software which allows the automatic non-contact measuring of frame patterns or demo lenses has been applied to UPB-900A. It also displays the XY coordinates of the drilling holes (max 10 per lens) or slots in relation with the blocking center. Rimless frames are not a headache any longer.

Motorized blocking

The UPB-900A uses a video camera to block lens accurately to be edged without any parallax error.

Server for mini-lab

The UPB-900A uses an internal computer which can be used as a hub for connecting up to several edgers via cable link or EdgeNet™ Wireless communication.

200 jobs could be saved in the memory and recalled from any edger using a barcode reader.

The UNIQUE of UNICOS BLOCKER
UPB·900

State-of-the-art Manual Blocker.



Server for mini-lab

UNICOS' Centering device, Model UPB-900 has a large screen with a diameter of 75mm and permeable illumination system for clear viewing. The segment layout mark is provided on the screen for right and left lense, the screen could be lowered to confirm the position of Marked points, segment placement, etc. UPB-900 is compact, and is simple to operate.

– Simple & Easy Blocking

– Size adjustable

– Error Free

– Low Cost

UPT-900 SPECIFICATIONS

Tracing Method	Automatic 3-D binocular tracing
Tracing size	Frame : Φ 17 mm to Φ 90 mm Pattern : Φ 24 mm to Φ 75 mm
Measurement item	Shapes Frame curve FPD Frame : 3-D circumference Pattern / Demo lens : 2-D circumference Frame front wrapping angle
Frame clamping	Automatic one-touch clamping
Measuring points	1000
Tracing time	Frame : Max 40sec Pattern : Max 30sec
Interface	PORT 1 (Selectable) - RS232C : For PC or Lens Edger - TCP/IP : For internet server PORT 2 (Optional) - RS232C : For Barcode reader
Power supply	AC 100V-240V 50/60Hz
Power consumption	50VA
Dimension / Weight	240 (W) X 300 (D) X 200 (H), 10 Kg
Standard accessories	Pattern holder, Suction cup Standard frame Standard pattern Power code RS232C NULL Modem cable
Software	TraceApp.exe : For setting Unicos.exe : For internal calibration AutoTune.exe : For calibration
Working mode	UNICOS Mode OMA Ascii OMA Packed binary



UPB-900A SPECIFICATIONS

Tracing size	Frame : Φ 17 mm to Φ 90 mm Pattern : Φ 24 mm to Φ 75 mm
Measurement item	Shapes Pattern / Demo lens : 2-D circumference
Tracing time	Max 40 sec
Interface	PORT 1 (Selectable) - RS232C : For PC or Lens Edger - TCP/IP : For internet server PORT 2 (Optional) - RS232C : For Barcode reader
Power supply	AC 100V-240V 50/60Hz
Power consumption	50VA
Dimension / Weight	240 (W) X 300 (D) X 200 (H), 10 Kg
Working mode	OMA Packed binary
Standard accessories	Pattern holder, Suction cup Standard frame Standard pattern Power code RS232C NULL Modem cabl



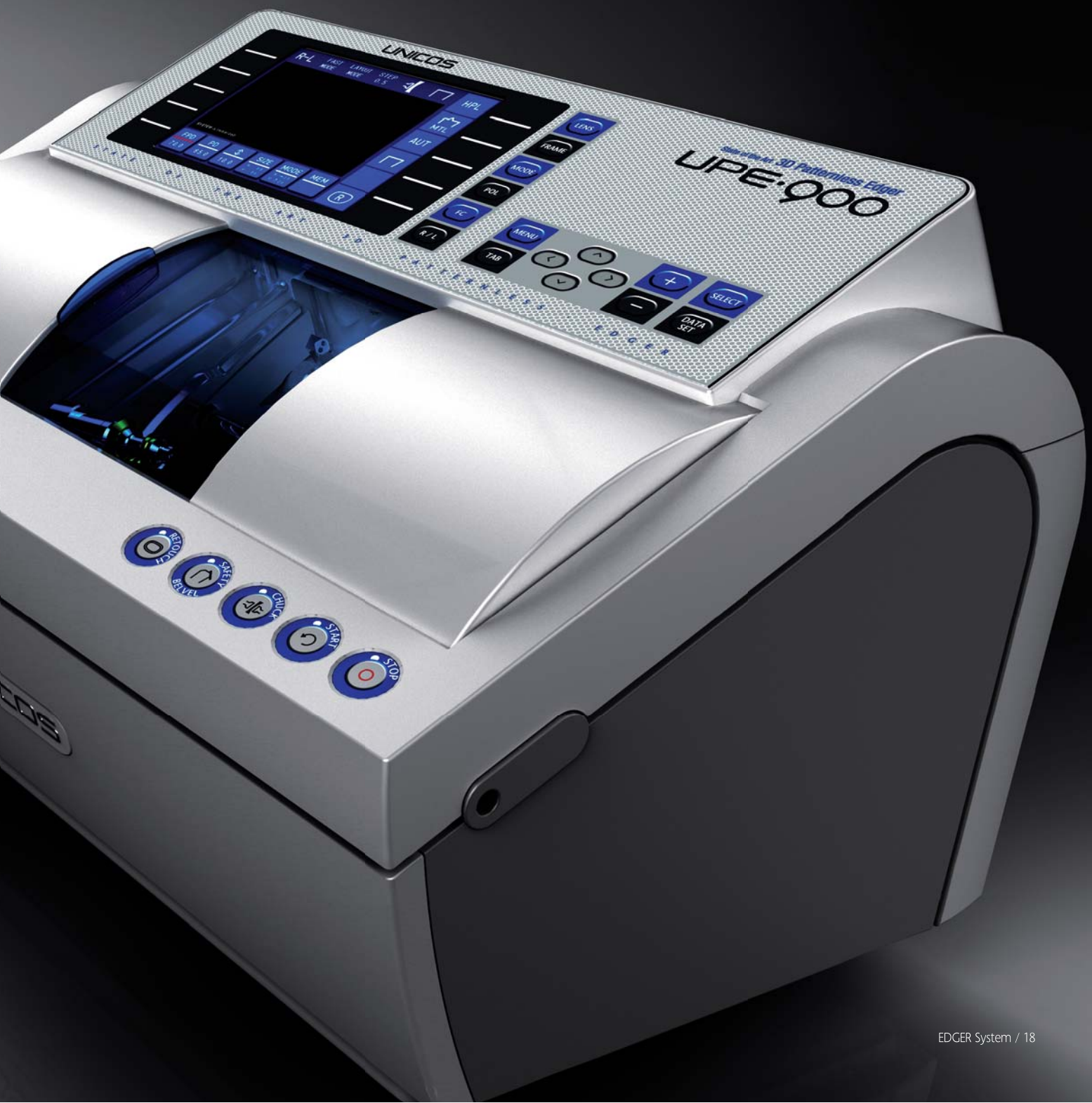
Design and details are subject to change without prior notice for it's improvements.

UPE-900 SPECIFICATIONS

Edged materials	Mineral / Organic / Hi-Index / Polycarbonate / Trivex / Acrylic
Finishing	Bevel - Automatic
	- According to lens / Frame base curve
	- Customisable
	Mini bevel (mini 0.6mm)
	Rimless
	Polishing bevel and rimless
Lens capacity	Mini 17mm
	Maxi 80 mm

Built in Software	Shape modification
	- Up / Down, - Temporal / Nasal, - Annular Re-edging already edged lens
Interface	PORT 1 (Selectable)
	- RS232C : For PC or Lens Edger - TCP/IP : For internet server
	PORT 2 (Optional)
	- RS232C : For Barcode reader
Power Supply	AC 100V - 240V 50/60Hz
Power Consumption	1KVA
Dimension / Weight	580 (H) X 440 (D) X 400 (H) , 36Kg

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UNICOS' new Future
UNICOS

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