

EXCELRON AUTO BLOCKER

Huvitz Automatic Blocker & Tracer CAB-4000



ALL IN ONE & FULL

Just place the lens in position. The Excelon will do the rest.

The Huvitz Auto Blocker CAB-4000 is a one-stop finishing solution, combining the functions of a tracer, lensmeter, and blocker in one powerful system.

Fully automated lens centering and blocking is now available at the push of a button.



AUTOMATION



AUTOMATION – EXCEL

Integrated Tracer, Lensmeter, and Blocker

All-In-One System

Fully Automated

Frame reading, lens centering, and blocking are performed automatically for maximum speed and convenience.

Completely Integrated

Tracing, metering, and blocking are fully integrated and ensure superior precision by reducing the potential for user error.



Directly Input Lens Layout & Edging Options

Users can complete all lens layout work, adjust parameters (such as PD & OH values), and select edging options using the intuitive, icon-based touch screen. The information is directly transferred to the edger by simply pressing the start button.

Intelligent Lens Centering

Automatic Centering

Automatic Lens Recognition

The advanced system automatically recognizes the type of lens being used (single vision, bi-focal, or progressive) as soon as it is set in position.



Integrated Lensmeter

The integrated lensmeter provides the spherical value, cylindrical value, and axis of the lens upon scanning. Single vision lenses do not need to be marked.



Advanced Image Processing

Advanced image processing technology permits the CAB-4000 to recognize any lens shape, ensuring utmost precision when detecting progressive, bi-focal, and blended lenses.



User-Friendly Blocking

Automatic Blocking

Drop & Block

Upon setting the lens in position the blocking center is displayed on screen. The system will automatically block the lens at its geometric or optical center; the user may elect their preference or rely on the default setting.



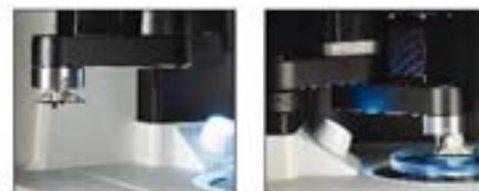
Automatic Geometric Center Blocking

Geometric center blocking is preset as the default setting, allowing all users to easily and efficiently perform what was once a difficult and time consuming task.



3 Joint Motorized Robot Arm

The patented 3 joint motorized robot arm is efficient and extremely precise.



ON AUTO BLOCKER

Advanced Tracing

Automatic 3D Tracing

Automatic Recognition

The complete frame reading process—including frame capture, groove detection, and tracing—is fully automated, resulting in exceptionally accurate scanning.

Precise Scanning

The CAB-4000 provides binocular three dimensional scanning, making data collection easier and more precise.



Intelligent Data Transmission

Tracing data, FPD, frame diameter, and other key changes are transmitted to the edger in real-time, assuring interoperability.

Versatile Functions with Digital Technology

Working with Lens Data

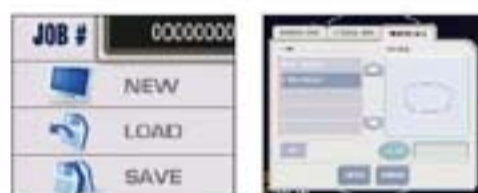
Digital Pattern Layout

The 'Digital Pattern Layout' menu allows users to modify lens width, height, and circumference and manage the fitting challenges posed by rimless and semi-rimless frames.



Data Storage

Up to 1,000 patterns can be stored within the system's large database, allowing users to access saved jobs at any time.



Convenient User Interface

Additional Features

Touch Screen LCD Monitor

The high resolution touch screen monitor allows users to easily control all of the system's functions.

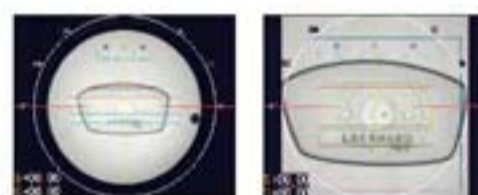
Graphic Interface

The intuitive icon-based interface permits users of all experience levels to easily manage the entire finishing process.



Double-Magnified Image

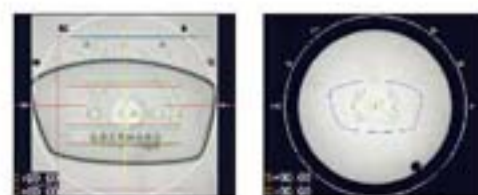
The double-magnified lens image can be simultaneously displayed on the LCD monitor with other detailed information, leading to more accurate centering and blocking.



Digital Scanning

Demo lenses and pattern shapes can be acquired by digitally scanning rather than tracing.

Digital scan technology substantially reduces the overall cycle time and increases user convenience.





SPECIFICATION

TRACER & BLOCKER

Detection Methods	Photographs & Traces
Tracing Size	Dia 80mm or less, Dia. 18mm or more
Lensmeter Camera	CCD B/W
Imaging Camera	SVGA Color 2x Image
Measurement	SPH, -200~+15D, CYL: ±10D
Increment	0.01D
Blocking Tolerance	-0.5~+0.5mm
Axis Tolerance	±1°

LAYOUT

Lens Type	Single Lens, Progressive Lens, Bi-focal Lens
FPD	30~99.50 (in steps of 0.01mm)
Binocular PD	30~99.50 (in steps of 0.01mm)
Monocular PD	15.0~49.75
OH	±15.00mm

Layout Factors	FPD
	PD (Binocular or Monocular)
	Cyl Axis
	Bridge Size
	OH (Δ Y, Mixed Height, Box Height)
	Lens Size (including adjustment)
	Frame Material (Metal, Plastic-Hard, Plastic-Soft)
	Digital Pattern
Centering Method (Box Center, Optical Center)	

EDGING FACTORS

Lens Material	Plastic, Glass, PC, Trivex etc.
Finishing Type	Bevel, Groove, Flat Edge
Bevel Positioning	mm, %, BC

BLOCKING

Blocking Method	Automatic Blocking with Mechanical Arm
Blocking Pressure	2.5kgf

LCD

LCD Screen Size	8.4 inch 800x600mm
Input Method	Touch Pad LCD, Buttons

DATA TRANSMISSION PORT

Com PORT 1	Edger 1
Com PORT 2	Edger 2
Com PORT 3	Tracer Out
Com PORT 4	Bar Code Reader

COLLATERAL FUNCTIONS

Data Storage	Maximum 1,000 Data
Digital Scanning	Photographs Lens Shape
Regulating LCD Brightness	Control LED
Lens Type Interpretation	Single Lens, Progressive, Bi-focal

Designs and details can be changed without prior notice for the purposes of improvement

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