Block All/190 Vision

Alloy blocker aided vision system



AUTOMATIC DETECTION OF LENS'S MARK POSITION

Block All/190 Vision has been made to help the operator during blocking operations of the semi-finished lenses in the prescription laboratories.
The system allows to align any kind of semi finished lenses without using an axis marker thanks to an enlarged camera image.
The use of the integrated software Z-Cam, by the use of a touch screen 15" monitor, allows the visualization, real-time and overlaid, of the lens and the appropriated position picture with automatic correction of the through-power distortion.
Software helps the operator to center the lens advising with an automatic detection of the correct lens alignement.

The ovelaid picture allows a correct and more efficient alignment of the semi finished lenses for: single vision, bifocals and progressives. The system also permits the connection of two cameras contemporarily giving the possibility to use two blockers, one for the right lens and the other for the left lens (Version **Block All/190/ Vision 2S**).

The software allows the connection of the blocker to a LMS software (management of the laboratory) to allow therefore the exchange of the prescription data; this function is supported by the use of the provided bar-code device.
The communication between the two systems is possible through the Ethernet port or the serial RS232 port.
It is obviously possible to use the Block All/190 Vision in an independent way and manually insert the prescription data by a "built in" virtual keyboard. The Case with the screen is a All-in-one PC, that allows the better inclination for an easier data reading.

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The Z-Cam software allows the vision of the blocking area integrating it with graphic interfaces, specific and customizable profiles to simplify at operator's will the alignment and the lens blocking.

The working window shows furthermore: - Prescription data - Block information - Blocking ring identification.
The visualization of the working area is in real-time with a resolution of 640x480 pixels.
Two different integrated data-bases allow the storage and the management of semi finished and blocks.
The software is provided with functions for the interface configuration and the video settings.
Different levels of privileged access to the functions of the program allow the correct management of the software by different kind of users, which can gain access to the functionalities of their own competence.
The calibration of the cameras is software-aided, so to limit the mechanical adjustments.

The blocker is provided with two different heating systems with relevant temperature controls;
the first is placed directly into the fusion crucible and the second one heats and controls the part of discharge pipe of the molten metal, up to the entrance of the block. Both are controlled by appropriated digital thermoregulators placed on the control panel.
The blocker works both with alloy for organic materials (plastic) at 47°C/melting point, and with alloy for mineral glass at 70°C/melting point.



Real-time capture



Semifinished local data base

Block All/190 Vision 2S



The COMES blocking system consists of 4 different types of block, divided by dioptrical range. This subdivision allows to obtain some advantages that come from the minimization of the used alloy: faster cooling of the block, less waiting time between the blocking phase and the working phase, more productivity and consequently less deformation of the semi finished.

Type A - Plano to 4.00Dt.
Type B - 4.00 to 7.00Dt.
Type C - 7.00 to 10.00Dt.
Type D - 10.00 to 13.00Dt.

COMES blocks



Technical Data

DIMENSIONS	***Block All/190*** mm 320 x 450 x 470h. / Kg.35	***Vision RT*** mm 480 x 365 x 485h. / Kg.10
VOLTAGE	230V-50/60Hz.	
ELECTRIC POWER	***Block All/190*** 1200 watt.	***Vision RT*** 150 watt.
COMPRESSED AIR	6 bar / 0.5 NL cycle (1 lens)	
RANGE OF WORK	CX surfaces from Ø50 up to Ø 90 - Plano to 13.00 Dt. - single vision / bifocal / progressive	
PRODUCTIVITY	Up to 120 lens/h with COMES blocks	
ALL IN ONE PC (Vision RT)	Pentium M (1,7 Ghz+ RAM 1G) with Windows XP-PRO os. - Touch Screen1024x768 px. n°1 Serial 232 DB9 - n°1 Ethernet 10/100 RJ45 - n°4 USB 2.0	
OPERATING TEMPERATURE	C° 0°/45° - humidity 80% no-condensing	
ACCESSORIES	Hand held bar-code scanner (included)	

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