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# INSTRUCTION MANUAL

## SISTEMA FAST-LENS 4.0



FAST-LENS 4.0

SMSOFTALMICTECH.COM

# FAST-LENS4.0 Ophthalmic Lens Manufacturing System Operation and Maintenance Manual

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### 1. Introduction

Welcome to the FAST-LENS4.0 ophthalmic lens manufacturing system manual. This manual contains all the information necessary for the installation, operation and maintenance of the system, thus ensuring its optimal and long-lasting performance.

### 2. Security

#### 2.1 General Precautions

- Read all instructions before operating the system.
- Do not modify any part of the system without authorization.
- Keep the area around the equipment clean and free from obstructions.

#### 2.2 Personal Protective Equipment (PPE)

- Protective goggles
- Safety gloves
- Ear protectors (if necessary)
- Apron or appropriate clothing

### 3. System Description

#### 3.1 Main Components

Operating machine with UV curing chamber, hardens the lenses.

- Set of barium crystal molds for manufacturing ophthalmic lenses, containing 389 units in total, 72 upper progressive molds and 317 molds for molding the lower part.
- Molding gaskets for all diopters (From -6.00 to +4.00 cylindrical to -2.50 ADD 1.00 to 3.00).
- Set of molds and gaskets, its main objective is to manufacture 38,844 different diopters.
- User Interface, Android 11 tablet Touch screen for system operation.
- Cleaning System. Turbo jet-fan blower.

#### 3.2 Technical Specifications

- Operating Voltage: 220V
- Electricity Consumption: HOUR: 0.10 KWH DAY: 1.20 KWH. MONTH: 36.50 KWH
- Production Capacity: 100 lenses per 8 hours of operation.
- Dimensions: 53cm x 50cm x 63cm
- Equipment weight: 32 kg
- Weight of the mold set: 44 kg

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## 4. Installation

### 4.1 Installation Requirements

- Minimum space of 3m x 2m
- 220V electrical connection
- Airtight ventilation system; air conditioning cannot be used in the room.

### 4.2 Installation Step by Step

- Unpacking: Carefully remove all packaging components.
- Positioning: Place the system in the desired location.
- Electrical Connections: Connect the system to the electrical network.
- Turn on the equipment using the button located on the right side of it.
- From the PLAY STORE download the system APP (fast lens 4.0)
- Initial Checks: Ensure Internet connection, after connecting to the network, enter your Login and Password.

## 5. Operation

### 5.1 System Initialization

- Turn on the equipment with the switch.
- Access the tablet interface.
- Check the system status on the home screen.
- Enter login and password on the interface.

### 5.2 Manufacturing Process

- Enter the desired diopter, filling in all the fields on the system interface.
- In the mold set, select the molds and gaskets indicated in the system
- Configure the axis if necessary when making the impression.
- Start the injection process by selecting one of the three types of SMS12 Resin
- Monitor the injection progress until the liquid has filled the entire space between the molds in the gasket.

5.3 After the injection is finished, remove it and take it to the curing compartment, press the start button located on the upper right part of the equipment.

- Follow the healing process, when the time is up  
Quickly remove from the curing chamber, and disassemble using the disassembly tool.
- When demolding, return the finished lens to the curing compartment for post-curing... this will result in greater hardness and resistance of the lenses.

## 6. Maintenance

### 6.1 Preventive Maintenance

- Daily: Clean the machine and check the SMS12 Resin levels in the injection compartments.
- Daily: Clean the molds and gaskets, storing them in their respective envelopes.
- Monthly: Check electrical cables and connections.

### 6.2 Corrective Maintenance

- In case of failures, contact SMS OFTALMIC TECH immediately.
- If necessary, contact technical support for assistance. (Email) WhatsApp.

## 7. Troubleshooting

### 7.1 Common Problems and Solutions

- The machine does not turn on: Check the electrical connection and fuses.
- Invalid password: Check Internet connections.
- System errors: Restart the system and check for error messages.

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## 8. Contact and Technical Support

For technical support, contact us via WhatsApp number. +55 47 996722061 or email [fastlens4.0@gmail.com](mailto:fastlens4.0@gmail.com).

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INJECTORS



ANDROID TABLET HOME SCREEN TO ENTER DIOPTERS

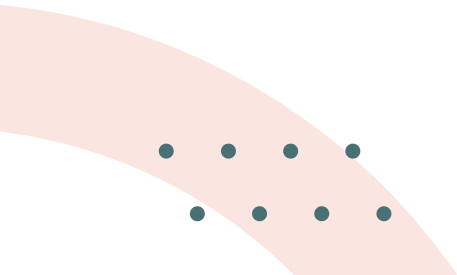


COMPARTMENT DE UV CURING



DEVICE FROM START

VENTILATION



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# FAST-LENS4.0 SISTEMA



SPHERICAL RIGHT EYE DIOPTR FIELD

CYLINDRICAL RIGHT EYE DIOPTR FIELD

ADJUSTING GASKET SIZES

PLUS FIELD

AXLE



SPHERICAL LEFT EYE DIOPTR FIELD

CYLINDRICAL LEFT EYE DIOPTR FIELD

AXLE

PLUS FIELD