

# USER'S MANUAL



**Product: OPHTHALMIC CHAIR**  
**Model: ERU-2600 CHAIR**



### **INTRODUCTION:**

Congratulations! You have just purchased a product developed using the latest concepts of high technology on the market. This equipment has been designed following strict quality standards to provide maximum performance, quality and safety to the user.

### **PRODUCT:**

Technical Name: Ophthalmologic Chair

Trade Name: ELIEZER

Business Model: ERU-2600 Chair

### **BRAND:**

ELIEZER

### **WARNING!**

*Read all the information contained in this Manual, before you begin using the Equipment.*

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## 1. PRESENTATION OF MODELS

Ophthalmologic Chair ERU-2600 is available in three different models to meet the diverse needs of medical professionals to meet your needs.

The following are all the information necessary to install and use the product.

## 2. OPHTHALMOLOGIC CHAIR

Ophthalmologic Chair ERU-2600.

### 2.1. IDENTIFICATION PRODUCT

Name: Ophthalmologic Chair

Trade name: ELIEZER

Business Model: ERU-2600 Chair



### 2.2. PRODUCT DESCRIPTION

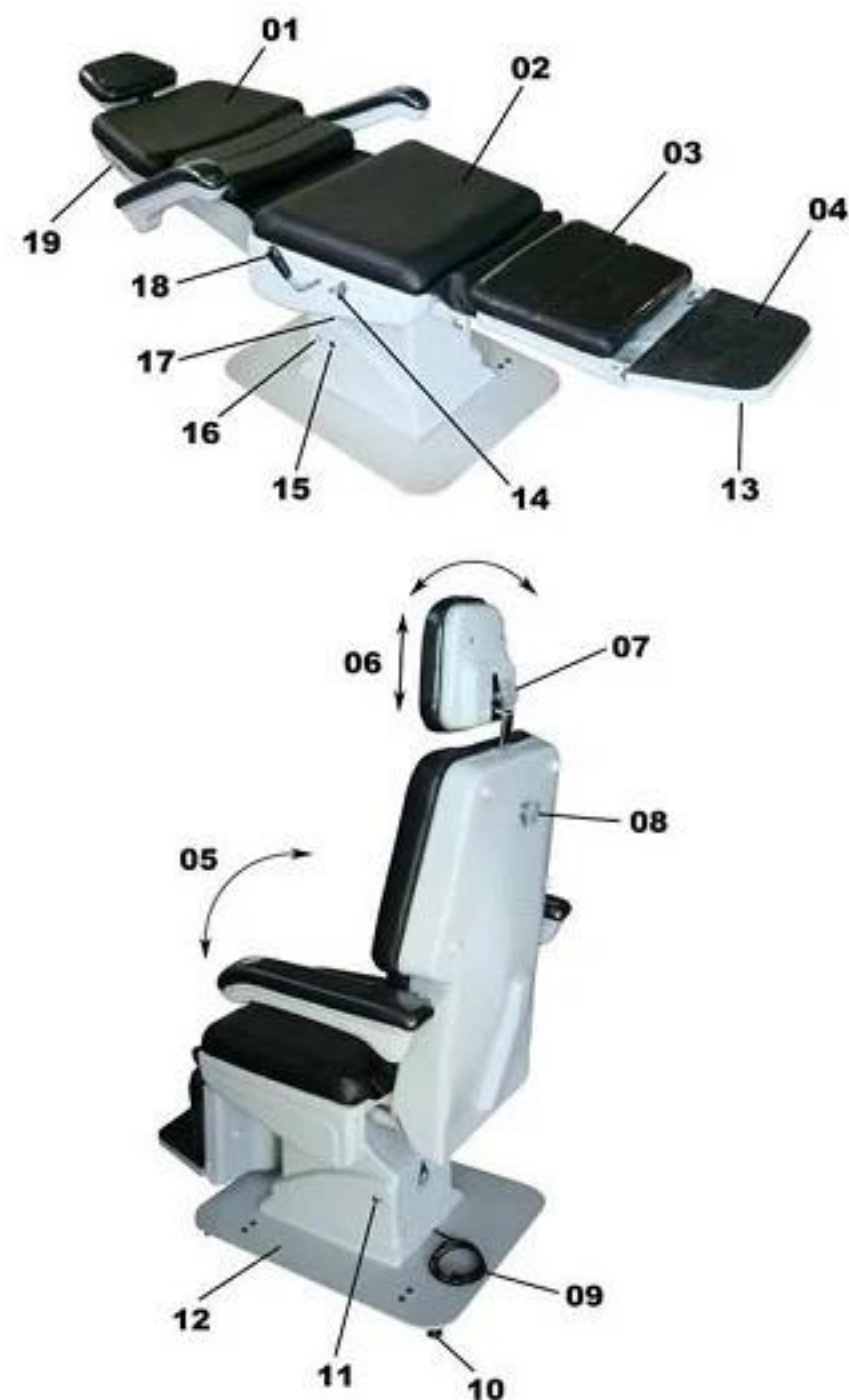
The Ophthalmologic Chair ERU-2600 is a motorized chair can be controlled by the operator by pedal or manual control. It has a system to raise the seat, backrest; driven by an electric- drive motor that works without oil and very quiet. Its operation allows multiple configurations, including children, at full speed and intermediate positions. Its internal structure is made of SAE 1020 carbon steel, with epoxy paint finish treatment and polystyrene surfaces for easy cleaning. It has injected foam padding to combat distortion and layer - controlled anti mold curvin density with rounded corners. The equipment is provided at 110/220V with manual voltage selection .

### 2.33 PHYSICAL PRINCIPLE AND BASIS OF PRODUCT TECHNOLOGY APPLIED TO ITS OPERATION AND ITS ACTION

Equipment developed in painted steel frame with padding for support and is divided into two main parts (seat and back ) with independent movements can be electrical (motors with gears and pedals unit ) or manual ( levers and buttons).

## 2.4. PARTES Y ACCESORIOS QUE ACOMPAÑAN EL PRODUCTO:

| ITEM | DESCRIPTION OS SHARES             |
|------|-----------------------------------|
| 01   | Backrest                          |
| 02   | Seat                              |
| 03   | Legrest                           |
| 04   | Footrest                          |
| 05   | Aarmrest                          |
| 06   | Headrest                          |
| 07   | Headrest tilt adjustment screw    |
| 08   | Headrest                          |
| 09   | Knob height adjustment headrest   |
| 10   | Power Cable                       |
| 11   | Leveler Feet                      |
| 12   | Pedal connector (optional)        |
| 13   | Base                              |
| 14   | Foot support                      |
| 15   | Horizontal safety knob (optional) |
| 16   | Holders                           |
| 17   | Voltage selection switch          |
| 18   | Main switch, ignition internal    |
| 19   | Recliners Lock                    |



### 2.4.1. ACCESSORIES:



Headrest



Footswitch

## 2.5. OPTIONAL ITEMS, SUPPLIES AND SUPPORT MATERIALS

### 2.5.1 OPTINAL ITEMS:



Connector of the Footswitch



Horizontal turning the  
locking knob



Footswitch

### 2.5.2. Consumables:

Not applicable to products

### 2.5.3. SUPPORT MATERIALS

Instructions and Warranty

#### Attention!

*The use of parts, accessories or equipment not specified in the instruction is the responsibility of the owner and may even jeopardize the warranty period given by the product.*

### 2.6. TECHNICAL SPECIFICATIONS:

|                                           |                                    |
|-------------------------------------------|------------------------------------|
| Product Class .....                       | Class 1 (low risk )                |
| Protection against electric shock .....   | Type B Class                       |
| level of IP protection .....              | IPX4 - protection against splashes |
| Operating mode .....                      | Continuous operation               |
| Supply Voltage .....                      | 127 / 220V                         |
| Operating Frequency .....                 | 50/60 Hz                           |
| Load Current .....                        | 2A                                 |
| Motor .....                               | 24V DC                             |
| Fast Fuse Type Fuse 20mm .....            | - 2A                               |
| Power consumption .....                   | 150W                               |
| Lifting capacity .....                    | 180Kg                              |
| Dimensions ( Garbage settings ) .....     | 2.00 cm x 70cm x 62cm              |
| Dimensions (standard configuration) ..... | 1.00 cm x 1.41 cm x 70cm           |
| High / low seat height .....              | 780cm / 56cm                       |
| The occupied area ( as table ) .....      | 1.4 m <sup>2</sup>                 |
| Net Weight .....                          | 78Kg                               |
| Gross weight .....                        | 105kg                              |
| Type of packaging .....                   | Wooden box                         |
| Package dimensions .....                  | 1.10 cm x 1.28 cm x 75cm           |

### 2.7. COMPARISON TABLE BETWEEN THE MODEL ERU-2600:

| ACCIÓN                                             | ERU-2600 |
|----------------------------------------------------|----------|
| Support arm vertical opening                       | ■        |
| Seat up / down                                     | ■        |
| Side Digital Command 3                             | X        |
| Lateral digital footswitch 5                       | ■        |
| Footswitch 3                                       | X        |
| Footswitch 5                                       | O        |
| Tilt the backrest / tilt                           | ■        |
| Backing up or down                                 | ■        |
| Backup inclined chest / tilt                       | ■        |
| Horizontal swivel seat 180 ° (90 ° + 90 °)         | O        |
| Full Tilt                                          | ■        |
| Support arm vertical opening Spat tilt and recline | ■        |

■ = Serie   O = Opcional   X = No es aplicable

## 2.8. DIRECTIONS FOR PROPER USE OF THE PRODUCT:

### 2.8.1. OVERVIEW OF THE TEAM:



Front



Side



Back

### 2.8.2. POSITIONS USING THE CHAIR:



#### Normal Position:

It is the position set for the entry of patient and initial exams. Place the patient sitting.

#### Lying Position:

It is the table position for minor procedures.



#### Open and Close the Armrest:

Articulated Movement for ease of entry and leave of the patient.



#### Chair Seat:

It has movement up and down; controlled by the control panel or footswitch.

#### Chair Legrest:

Has reclining/inclining movements; simultaneously with backrest.



#### Headrest:

It has articulated motion with height adjustment; and has injected foam upholstery.

### 2.8.3. COMMANDS TO CONTROL THE MOVEMENT OF THE CHAIR

The commands to control the Ophthalmic Chair ERU-200 can be activated by the operator through the footswitch or control panel. It features electronic controls to adjust seat height, backrest and legrest simultaneously; and back to the zero position, wherein the seat returns to its normal position (sitting) to facilitate discharge of the patient. The chair control operations are made by just a touch to the control.

**WARNING!**

*The control panel, and footswitch have no protection against liquid, so cannot be considered waterproof.*



Layout Panel Commands



Disposition of the commands in the footswitch

| PEDAL | GROUP | COMMAND | DESCRIPTION                                           |
|-------|-------|---------|-------------------------------------------------------|
|       |       | Up      | Lift the seat and the whole.                          |
|       |       | Down    | Drop seat and whole.                                  |
|       |       | Recline | Drop the backrest and at the same time lift Legrest.  |
|       |       | Incline | Lift the backrest and at same time drop the Legrest.. |
|       |       | Zero    | Automatic Return to initial sitting position.         |

**WARNING!**

*Expressly discourage the use of equipment by untrained personnel, and we take no responsibility for the incorrect use of this equipment.*

**WARNING!**

*Read the instructions below before beginning installation of equipment for the first time.*

### 3. INSTALLATION

Before starting the installation of equipment , make sure there is not a bad component inside the package. If this happens, immediately contact the company to resolve the problem.

Install the equipment in the correct location, with enough space, so the movements can be made freely and allow access to all parts . Verify there are either 127 V or 220 V power supply; and that same supports at least 200 watts of power.

*Note: Your equipment comes with manual voltage selector.*

The equipment must be connected to an outlet, especially designed for this purpose; and grounding as per Technical Standard ABNT; to ensure total safety and proper operation.

Do not connect appliances or other equipment in the same outlet, where the equipment is installed.

When the power cord is plugged into the power outlet, ensure that no drilling in places where the extended movement of people to prevent accidental disconnection and possible damage to the cable outlet or power.

Level equipment using the leveling feet which are the base, and in contact with the ground.

Adjust the stem headrest into the hole in the top of the back of the backrest; and turn right onto the screw until it snaps into position.

Connect the footswitch on the side of the base of the seat (optional).

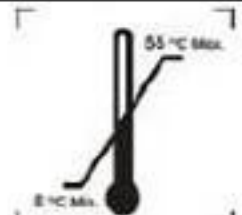
If necessary, the manufacturer has specialized technical team to install the equipment.

## BEFORE INSTALLATION:

### 4. SPECIAL STORAGE, PRESERVATION AND / OR HANDLING

#### 4.1. PACKING:

All information on the precautions to be taken during transport and storage of the product are listed in the package itself through symbols normalized as follows:

| SYMBOL                                                                              | DESCRIPTION                                                                         |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  | Fragile. Caution in transport and storage.                                          |
|  | Maximum stacking. A maximum of two identical units can be stacked one atop another. |
|  | Need protection against moisture during transportation and storage.                 |
|  | Upwards. Positioning of the containers during transport and storage.                |
|  | Limit temperature (0 to 55 °) for transport and storage.                            |

#### 4.2. STORAGE:

Keep the product in its original packaging and in a place protected from moisture and heat.

If there is a need to store multiple equipment in its packaging, with a high stack should be a maximum of two units (as indicated by the symbol).

#### 4.3. TRANSPORTATION:

During transportation, avoid vibration, drops and impacts directly on the package.

When handling the equipment out of its original packaging, take it from its base, never by the arms or on other part of the equipment.

During transportation and storage, to ensure that the environmental conditions within the specified ranges as described below:

Ambient temperature for storage and transport ..... 0°C to +55°C

Relative humidity for storage and transport ..... 0% to 90%

Atmospheric pressure ..... 375-795 mmHg

## AFTER INSTALLATION

### 4.4. PACKING:

Keep the product away from heat and humidity including from direct rays of the sun on the equipment. During the transport and the operation of the product, verify the environmental conditioning and within specified limits, as describing as follows:

|                                                    |               |
|----------------------------------------------------|---------------|
| Ambient temperature for Transport and Storage..... | 10°C to +35°C |
| Relative Humidity for storage and transport.....   | 30% -75%      |
| Atmospheric Pressure .....                         | 375-795 mmHg  |

### 4.5. CONSERVATION:

When in use, clean equipment with a damp cloth and mild soap on upholstery and alcohol in the other parts. After each use, keep equipment clean and disinfected.  
Not to introduce or spill liquid inside the computer.  
Do not use solvents (thinner) or products that release chlorine to clean the equipment.  
Keep the equipment in a clean and dust-free place.

## 5. WARNINGS AND / OR PRECAUTIONS TO BE TAKEN

### 5.1 - SPECIAL WARNINGS AND / OR PRECAUTIONS FOR USERS

This equipment must be used only by trained personnel; and under the direction of qualified medical personnel familiar with the known risks and benefits of the use of the ophthalmic chair.

### 5.2 - SPECIAL WARNINGS AND / OR PRECAUTIONS WITH WEIGHT LIMITS

Never exceed the weight limits specified by the manufacturer.  
Do not sit on the Legrest or Backrest of the equipment. Use only the seat for this purpose. Danger of tipping!

### 5.3. SPECIAL WARNINGS AND/OR PRECAUTIONS ON HAZARDOUS

Ophthalmic Chair ERU-2600 is not suitable for use in the presence of flammable anesthetics or other flammable gases, such as some types of cleaning materials.  
Do not connect and do not start the Ophthalmic Chair ERU-2600, in areas where there may be risk of explosion.

### 5.4 - Special warnings and / or cautions about electrical hazards

Verify if the outlet has grounding, and was properly installed for optimal performance and safety as per ABNT Technical Standards.  
When you complete the work, it is essential that to turning off equipment using the ON/OFF power switch; before disconnecting the equipment from the AC . This will prevent possible overload on the equipment, next time you turn it on . If there is lack of electricity or burning fuse, disconnect the equipment through the switch, thus avoiding return power to the equipment overcharging, which may damage the equipment.  
When replacing fuses, maintain the same specifications (type and capacity) provided by the manufacturer to ensure electrical protection. When replacing the fuse, unplug equipment before using the power switch and unplug from the wall to prevent possible electric shock. Do not use the power cord if any part of it is damaged.

### 5.5. SPECIAL WARNINGS AND/OR PRECAUTIONS DURING TRASNPOR AND STORAGE

The equipment should be stored and transported with a high stack of two units; and protected from moisture (not exposed to rain, spray etc.)  
Because it is a fragile product, be careful to reduce the impact on the equipment.

## 5.6 - SPECIAL WARNINGS AND / OR PRECAUTIONS FOR EQUIPMENT MAINTENANCE

No repair or replace defective or inoperative equipment like parts of other appliances. Only Eliezer and its distributors can make repairs with original parts; and to ensure the proper operation of the equipment. To ensure the safety of electrical equipment throughout its life, it is recommended that the unit checked by our qualified technician at regular intervals at least once a year. Failure to periodic inspections may result in personal injury and damage to the chair.

## 5.7 - SPECIAL WARNINGS AND / OR PRECAUTIONS IN CLEANING

Ophthalmic Low chair and then disconnect from the network before any cleaning procedure.  
Do not use the cleaning system or high pressure steam.  
Do not use cleaning products that release chlorine or acid!  
For heavily soiled surfaces, use a mild soap in concentrated form and then wipe with a cloth dampened with clean water.  
Do not use cleaning agents or wet chemical processes containing abrasives.  
Keep free from oil and grease filling.  
Keep equipment clean and disinfected after each medical procedure.

## 6. PRODUCT PERFORMANCE

### 6.1. INDICATIONS AND INTENDED USE OF THE PRODUCT

Note: Designed for use in clinics, and hospitals to help health professionals to position the patient in special positions for the diagnosis, providing comfort to patients and professionals.  
Purpose: To facilitate positioning of patients for consultations and diagnostic and ophthalmic.

### 6.2. UNDESIRABLE SIDE EFFECTS OR COLLATERAL

Not applicable to this product.

### 6.3. THE SAFETY AND EFFICACY OF THE PRODUCT

The Chair Ophthalmic ERU-200 was designed and developed with non-toxic materials and following the most rigorous technical standards of quality to offer total security and user functionality.  
If used according to instructions in this manual, the computer does not cause any problems and not lose or change their physical dimensions and characteristics.

## 7. INSTALLATION OR CONNECTION WITH OTHER PRODUCTS

The Chair Ophthalmic ERU-200 no destination of compulsory direct connection to other equipment or products.

### **WARNING!**

***Use in conjunction with this team anywhere, accessories or equipment other than those specified by the manufacturer is the sole responsibility of the user.***

## 8. SOLUTION OF PROBLEMS: TROUBLESHOOTING:

| PROBLEM                                              | POSSIBLE CAUSE                                 | SOLUTION                                            |
|------------------------------------------------------|------------------------------------------------|-----------------------------------------------------|
| The switch does not turn                             | On / off in the "Off" Position                 | Change the switch to the "ON" position              |
|                                                      | Utility breaker                                | Reset circuit breaker (only once)                   |
|                                                      | Damaged or blown fuse                          | Replace the fuse with one of the same specification |
| On / off switch lights but no command works          | Damaged or burned fuse board                   | Contact the manufacturer                            |
| No work movement incline and recline of the backrest | Circuit fuse under the seat damaged or burned  | Contact the manufacturer                            |
| The seat does not move up and down                   | The relay circuit jammed.                      | Contact the manufacturer                            |
|                                                      | End of Course of the Elevation Tour is jammed. |                                                     |
| Footswitch does not work                             | Footswitch is not connected                    | Connect footswitch                                  |
|                                                      | Footswitch badly connected                     | Remove and reconnect the footswitch                 |

**Note:** If the problem is NOT resolved as described in the table above, please immediately contact the Eliezer Authorized Servicer.

## 9. PROCEDURES FOR PRODUCT REUSE

### 9.1. CLEANING

Cleaning of the equipment should be performed before and after each patient received. Clean upholstery, metal parts and the pedal (optional) with a damp cloth and mild soap. Weakly alkaline cleaning can be used to clean upholstery.

**Note:** Do not use any cleaner containing chlorine and or acid!

### 9.2. DISINFECTION

Location: the usual toiletries plus a germicidal product or broad spectrum disinfectant, being careful not to leave residues that may cause an allergic or toxic reaction in contact with the patient's body. Alcohol-based hand sanitizer can be purchased in the market with many different concentrations

**Note:** disinfectants can be used, but the maximum values as shown below

| PRODUCT                      | DILUTION (MAXIMUM VALUES OF 100 G OF DISINFECTANT) |
|------------------------------|----------------------------------------------------|
| Etanol at 96%                | 40g                                                |
| Propanol                     | 35g                                                |
| Glutáric dialdehídric at 25% | 0,075g                                             |
| Etiltexanal                  | 0,010g                                             |
| Formaldehídric Solution      | 0,010g                                             |
| Glioxal                      | 0,165g                                             |
| Sodium Hipocloritic          | 0,050g                                             |

Eliezer is NOT responsible for the use of different substances or solutions; whose concentration is higher than specified in this manual.

### **9.3 . PACKAGING**

Keep equipment away from moisture and heat.

If the equipment is out of service (not used) for a period of time, it is advisable to disconnect the power cord from the wall outlet and reconnect only when used.

### **10. PRECAUTIONS IN CASE OF PRODUCT CHANGE OPERATION**

If the computer heating or strange noises, make sure the problem is related to some of the problems mentioned in point 8 . Troubleshooting. If you still cannot solve the problem, turn off the unit, disconnect the power cord from the outlet and then contact an Eliezer Authorized Servicer for review and completion of the repairs .

### **11. SENSITIVITY TO ENVIRONMENTAL CONDITIONS IN NORMAL USE SITUATIONS**

Ophthalmic Chair ERU-200 have been specially designed and developed to avoid sensitivity to electromagnetic interference, external electrical influences, electrostatic discharge and variations in pressure and temperature. To do this , the equipment must be transported , installed, handled and stored according to the instructions contained herein .

### **12. PRECAUTIONS IN CASE OF DESTRUCTION OF THE PRODUCT**

In order to avoid environmental pollution or misuse of the product when it is useless , segregation , packaging , identification and presentation (at the risk of the client) to company facilities Eliezer to carry out the elimination of the product safely .