

**mimsal**



**USER MANUAL**

# **LUPA LED H.F**

MAGNIFIER LAMP



**LUPA LED H.F | LUPA LED H.F 3D | LUPA LED H.F 8D**



**Dear user, we encourage you to read this manual carefully before using the product.**

The manufacturer states that this product complies with Annex I (General safety and performance requirements) of (EU) REGULATION 2017/745 on medical devices, amended and integrated.

This manual's content may be modified in part or in whole by MIMSAL without prior notice in order to make changes and improvements.

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SYMBOLS

|                                                                                     |                                                           |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------|
|    | Instructions                                              |
|    | The documentation must be consulted                       |
|    | Declaration of conformity                                 |
|    | Medical device                                            |
|    | Item code                                                 |
|    | Batch number                                              |
|    | Unique device identification                              |
|    | Manufacturing date                                        |
|    | Name and address of the manufacturer                      |
|    | Electronic waste recycling                                |
|    | Electrical protection - Class II                          |
|    | Supply voltage - Alternating Current                      |
|    | On by pressing                                            |
|   | Off by pressing                                           |
|  | Luminaire net weight                                      |
|  | Permissible ambient temperature for transport and storage |
|  | Permissible relative humidity for transport and storage   |

SAFETY RULES

|                                                                                   |                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>WARNING</b><br>Not doing so could result in serious or even fatal injuries.                                                                                                                |
|  | <b>CAUTION</b><br>Not doing so could result in minor to moderate injuries or damage.                                                                                                          |
|  | <b>NOTE   INFORMATION</b><br>Provides application tips and useful information                                                                                                                 |
|  | <b>FALLING OF THE LIGHTING UNIT</b><br>Warns about the sudden collapse of the support arm system if the maximum useful load is exceeded.                                                      |
|  | <b>TIPPING HAZARD</b><br>The brackets are only designed to support the weight of the head. If additional weight is added, the unit may tip over, which could cause damage of varying degrees. |

# REFERENCE AND MODEL

| REF     | MODEL           | UDI-DI        |
|---------|-----------------|---------------|
| 09340   | LUPA LED H.F    | 8436562860073 |
| 09340-3 | LUPA LED H.F 3D | 8436562860509 |
| 09340-8 | LUPA LED H.F 8D | 8436562860516 |

## 1. SAFETY INSTRUCTIONS



**CHECK THE OPERATING INSTRUCTIONS WHEN HANDLING THE DEVICE.**

This lighting unit is a Class I medical device according to (EU) Regulation 2017/745 on medical devices.

### ENVIRONMENT

- 1. This device is not designed to be operated in potentially explosive areas!
- 2. Do not use it in oxygen-enriched areas!
- 3. Do not use it near flammable anesthetic gases!
- 4. Do not place it close to strong magnetic fields! e.g. Magnetic resonance systems.
- 5. Do not cover the top of the lamp head! Risk of overheating!
- 6. Do not have the luminaire on for more than 8 hours at a time!

### ELECTRONIC SAFETY

- 1. Only use the built-in power source unit!
- 2. The lighting unit does not include a fail-safe power source or an emergency battery!
- 3. In the event of a power cut, the lighting unit will shut off completely!
- 4. Short black-outs are possible in the event of external EMC interference!
- 5. To switch off the lamp completely, the power plug must be removed from the outlet or the live outlet must be disabled using a separate switch.

### MAINTENANCE AND RESPONSABILITY

- 1. Installation and electrical maintenance work must only be carried out by qualified personnel!
- 2. The manufacturer is not responsible for any damage caused by improper use!
- 3. The final user is responsible for the product's installation and MIMSAL accepts no responsibility.
- 4. The manufacturer is responsible for the safety of the lamp only if repairs and modifications are carried out by the manufacturer itself or by a company that ensures compliance with safety rules, using original replacement parts!
- 5. The organization and/or user are responsible for hiring qualified personnel for the installation of the equipment and for implementing preventive maintenance of the equipment

PRIOR TO EACH USE, MAKE SURE THAT THE LAMP IS IN PERFECT TECHNICAL CONDITION.

## 2. BRIEF DESCRIPTION

### INTENDED USERS

These operating instructions are intended for the health professionals who use, clean, and disinfect MISMAL lighting units.

### INTENDED USE

This lighting unit is intended for carrying out very meticulous work that requires a high level of precision. It is suitable for use in hospitals, medical research, laboratories, clinics, etc.

### INDICATION

The light is only intended to provide optimal visibility of the surface being examined and has no diagnostic or therapeutic effect. The light is external to the body and the device never enters into contact with patients.

### CONTRAINDICATION

The products must not be used close to strong magnetic fields.

The device must not be used in oxygen-enriched environments or in close to flammable anesthetic gases.

### RESIDUAL RISKS – RISK IN THE EVENT OF DAMAGE TO THE LIGHTING UNIT

- Protect the lighting unit from knocks. Collision with other objects could result in the failure of the device and/or damage to the cover and the support arm system, causing parts to fall off.
- The lighting unit does not include a fail-safe power source. A power cut will cause the device to switch off.
- Do not aim the light source directly at the eyes of the patient and/or operator.
- Always properly protect the patient's eyes.
- Failing to comply with these precautions could cause blinding and damage to the retina.
- Never place and/or hang any object on the lighting unit. If this precaution is not taken, the unit's position will be unstable and these objects could fall onto the work area.
- Never hang the body weight of a person from the lighting unit. Failing to comply with this precaution could damage the structure of the device.

### INCIDENTS AND REPORTS

The user and/or the patient must notify MISMAL and the competent authority in the country if any serious incident occurs whilst using the device.

In accordance with the Medical Devices Regulation (MDR), the competent authority must be notified immediately.

### 3. INSTALLATION AND SUPPORTS

- Before starting to install the device, check that the content is in good condition and that it has not been damaged or degraded during transportation.
- Claims will only be accepted if the vendor or the carrier is notified immediately. All claims must be made in writing.
- The goods always travel under the buyer's responsibility and at the buyer's risk.
- Keep the original packaging in the event the product needs to be returned.

#### TYPES OF SUPPORT

- The lighting unit may come with several different types of brackets, allowing the most suitable one to be selected for its use.
- All accessories must be assembled by an authorized installer.
- Do not make any modifications to the product, other than those mentioned in this user manual.

| MODEL             | SUPPORT                                   |
|-------------------|-------------------------------------------|
| TROLLEY STAND     | ROLLING BASE WITH 5 WHEELS                |
| AH TABLE CLAMP    | TABLE CLAMP                               |
| WALL B SUPPORT    | REINFORCED WALL B BRACKET                 |
| RAIL PLUS BRACKET | BRACKET FOR MOUNTING ON AN ICU RAIL       |
| EXTENSION ARM     | EXTENSION ARM + REINFORCED WALL B BRACKET |

### 3.1 TROLLEY STAND

| REF   | MODEL                | DESCRIPTION         |
|-------|----------------------|---------------------|
| 09651 | TROLLEY STAND 8,8 Kg | 8.8 KG ROLLING BASE |



Install the accessory without the lighting unit installed on it.  
It is the customer's responsibility to ensure that the surface that it is attached to is secure and sufficiently strong.



Check regularly that the unit is still stable in order to avoid the possibility of the lighting unit falling down.

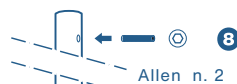


The rolling base is only designed to support the weight of the lighting unit.  
If additional weight is added, the unit may tip over and cause damage to the lighting unit and/or injury to the user.

#### 1. Installation and assembly

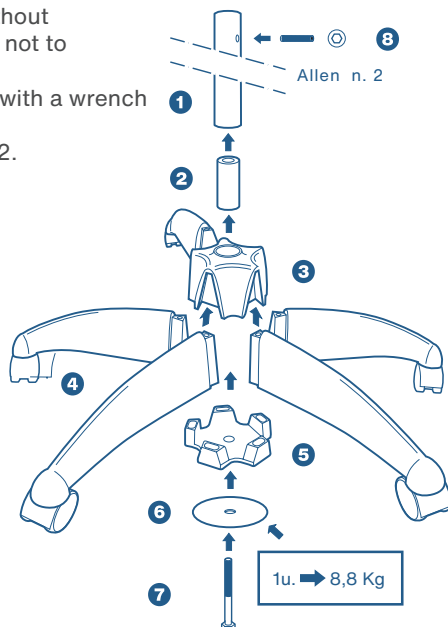
8

- Insert piece **2** totally into the base **3** and press down.
- Insert the legs with the wheels **4** through the base slot **3** until it completely fits, and if necessary helping with a nylon hammer.
- Fit piece **5** into the interior leg slots **4** by pressing down.
- Put the screw **7** through the washer **6** and insert the screw into piece **5** to connect the set.
- Join the pole **1** directly with the screw **7** without tightening the pole **1** with the piece **2** so as not to damage the paint.
- Hold the pole **1** firmly and turn the screw **7** with a wrench or a scanner until the whole set is tight.
- Luminaries fixation system **8**. Allen number 2.



#### 2. Technical characteristics

- Length of pole: 75 cm
- Total length: 92 cm
- Base diameter: 60 cm
- Wheel diameter: 50 mm
- Number of wheels: 5
- Number of brakes: 3





3.2 AH TABLE CLAMP

| REF     | MODEL          | DESCRIPTION |
|---------|----------------|-------------|
| B010190 | AH TABLE CLAMP | TABLE CLAMP |



Install the accessory without the lighting unit installed on it.  
It is the customer's responsibility to ensure that the surface that it is attached to is secure and sufficiently strong.



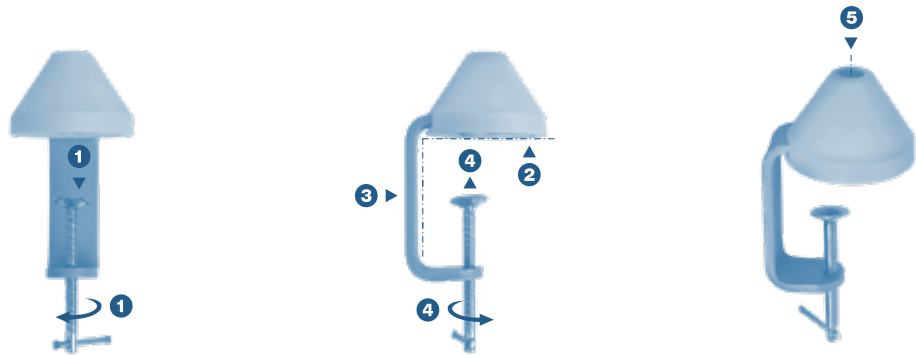
Check regularly that the unit is still stable in order to avoid the possibility of the lighting unit falling down.



The bracket is only designed to support the weight of the lamp. If additional weight is added, this may cause damage to the lighting unit and/or injury to the user.

Installation and assembly

- Use the handle to loosen the adjustment screw ❶.
- Rest the base of the clamp on the surface of the table ❷.
- Adjust the body of the clamp ❸ until it is touching the edge of the table.
- Turn the handle ❹ until the clamp and the table are firmly attached.
- Once the clamp is fixed and secure, position the lamp through the upper hole ❺.



3.3 WALL B SUPPORT

| REF      | MODEL          | DESCRIPTION                                               |
|----------|----------------|-----------------------------------------------------------|
| B0101800 | WALL B SUPPORT | REINFORCED WALL B BRACKET.<br>7 CM SHAFT-WALL SEPARATION. |



Install the accessory without the lighting unit installed on it.  
It is the customer’s responsibility to ensure that the surface that it is attached to is secure and sufficiently strong.



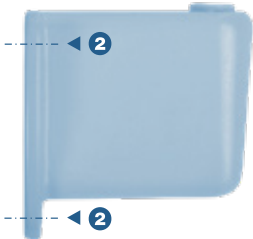
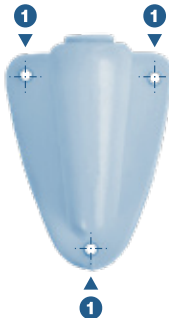
Check regularly that the unit is still stable in order to avoid the possibility of the lighting unit falling down.



The bracket is only designed to support the weight of the lamp.  
If additional weight is added, this may cause damage to the lighting unit and/or injury to the user.

Installation and assembly

- Check that the wall is sufficiently hard-wearing and flat.
- Use the bracket to mark the holes on the wall with the help of a pencil ❶.
- Drill holes and put the plugs into the wall ❶.
- Position the wall support, lining it up with the location of the holes ❷.
- Tighten the screws until the assembly, the guide separator and the screw are firmly attached ❷.
- Once the support is fixed and secure, position the lamp through the upper hole ❸.



3.4 RAIL PLUS BRACKET

| REF   | MODEL             | DESCRIPTION                          |
|-------|-------------------|--------------------------------------|
| 82026 | RAIL PLUS BRACKET | BRACKET FOR MOUNTING ON AN ICU RAIL. |



Install the accessory without the lighting unit installed on it.  
It is the customer's responsibility to ensure that the surface that it is attached to is secure and sufficiently strong.



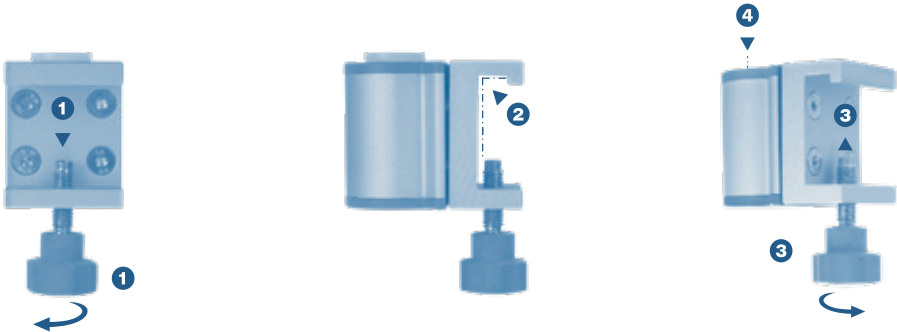
Check regularly that the unit is still stable in order to avoid the possibility of the lighting unit falling down.



The bracket is only designed to support the weight of the lamp. If additional weight is added, this may cause damage to the lighting unit and/or injury to the user.

Installation and assembly

- Loosen the adjustment screw via the wing screw ❶.
- Fit the upper part of the support to the rail ❷.
- The interior body of the support needs to be touching the rail ❸.
- Tighten the wing screw until the support and the rail are firmly attached ❹.
- Once the support is fixed and secure, position the lamp through the upper hole ❹.



3.5 EXTENSION ARM

| REF     | MODEL         | DESCRIPTION                                                                                                     |
|---------|---------------|-----------------------------------------------------------------------------------------------------------------|
| B0101S0 | EXTENSION ARM | EXTENSION ARM INCLUDING WALL B BRACKET. PROVIDES AN ADDITIONAL 40 CM, WITH HORIZONTAL ROTATION ALONG BOTH AXES. |



Install the accessory without the lighting unit installed on it.  
It is the customer's responsibility to ensure that the surface that it is attached to is secure and sufficiently strong.



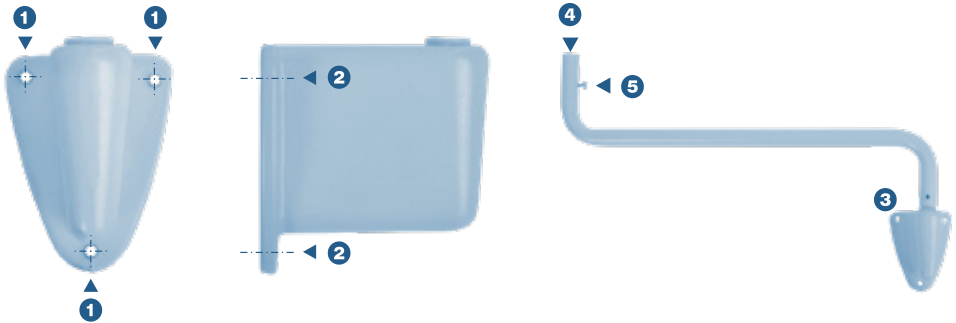
Check regularly that the unit is still stable in order to avoid the possibility of the lighting unit falling down.



The bracket is only designed to support the weight of the lamp. If additional weight is added, this may cause damage to the lighting unit and/or injury to the user.

Installation and assembly

- Check that the wall is sufficiently hard-wearing and flat.
- Use the bracket to mark the holes on the wall with the help of a pencil ❶.
- Drill holes and put the plugs into the wall ❶.
- Position the wall support, lining it up with the location of the holes ❷.
- Tighten the screws until the assembly, the guide separator and the screw are firmly attached ❷.
- Once the wall bracket is fixed and secure, position the end of the arm in the upper hole of the support ❸.
- Insert the shaft of the luminaire into the hole located at the other end of the extension arm ❹.
- Turn the extension arm's side screw in order to secure the luminaire ❺.



## 4. OPERATION OF THE LIGHTING UNIT

### 4.1 CHECK BEFORE EACH USE

1. Check if the unit is visibly deformed. If any deformities are detected, contact the After Sales Department immediately.
2. Make sure the lamp is in the required hygienic conditions for use.
3. Always check the correct operation of the whole unit before turning it on.  
The unit must move in every degree of motion whilst verifying the main function and the control system.



Do not use the unit if there are any doubts about its electrical safety or static and dynamic stability.

### 4.2 OPERATION OF THE LIGHTING UNIT HEAD

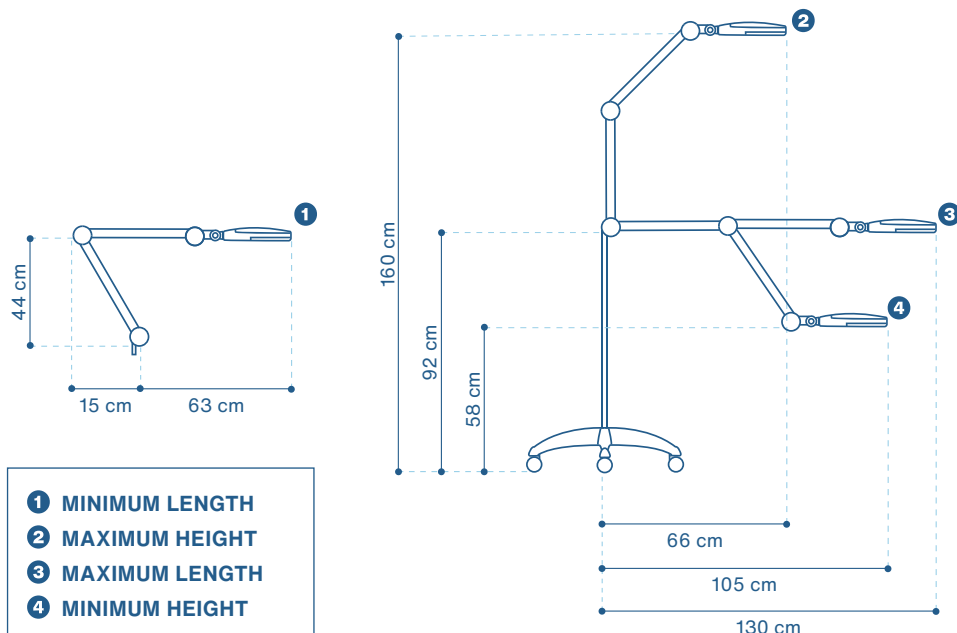
Lighting unit with simple and ergonomic operation for intuitive handling.

#### What to do:

1. Lift the protective cover. The power switch is concealed under the protective cover.
2. Select the switch position. I (On) | 0 (Off).
3. Move the position of the arm looking for an adequate focusing distance and lighting.  
Focal Length for 5 Diopter = 200mm  
Focal Length for 3 Diopter = 330mm  
Focal Length for 8 Diopter = 120mm

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### 4.3 ARTICULATED ARMS MEASUREMENT DETAILS



## 5. SAFETY FUNCTIONS

### 5.1 VOLTAGE DROP



In the event of a network voltage drop, the light will automatically switch off.

### 5.2 POWER CUTS



In the event of a total power cut, the light will switch off. As soon as voltage is reestablished on the network, it can be turned on again using the most recent established parameters.

### 5.3 ELECTRICAL MALFUNCTION



**NOTE:** In the event of this error, please contact the technical service.

## 6. CLEANING / DISINFECTION

### 6.1 GENERAL SAFETY INSTRUCTIONS

1. Disconnect the unit from the network before disinfecting it.
2. Never use an aerosol cleaner and/or disinfectant.
3. Do not spray liquid into sockets or slits on the unit or allow liquid to get into them.
4. Apply the cleaner by wetting a cloth, never by applying it directly to the device.



#### **WARNING: ELECTRICAL SHOCK**

The lighting units may transmit electricity and must be handled carefully during cleaning and disinfection.

### 6.2 CLEANING SAFETY

Check the general safety instructions.

#### **RECOMMENDED CLEANING**

1. Use a mild soap solution as a cleaning agent.
2. Thoroughly clean the surfaces with a dampened cloth, adding a bit of mild soap solution if necessary.
3. Finally, thoroughly dry the exterior surface with a clean soft cloth (anti-static if necessary).



#### **WARNING: RISK OF INFECTION AND CONTAMINATION OF PATIENTS**

Solvents could corrode the plastics. Strong acids, alkalies, and agents that contain more than 60% alcohol could turn plastics brittle. Damaged parts could fall into open wounds.

## 6.3 DISINFECTION

### SAFETY

Check the general safety instructions.

### DISINFECTION PROCESS

- The disinfection process is done using a cloth. The hygiene guidelines and safety measures for the disinfection processes to be used must be defined by the operator.
- We recommend using MELISEPTOL disinfectant made by Braun Melsungen and/ or “neoform MED rapid” made by Dr. Weigert. Follow all of the protection measures. Respect the manufacturer’s instructions and follow the hygiene guidelines.



Disinfect surfaces every working day! Disinfect all of the affected surfaces immediately after any contamination by potentially infectious material (e.g.: blood, secretion or excrement).



Contact your hygiene specialist to coordinate the disinfectant and the proper procedures with your internal requirements! Always follow the internal disinfection plan!



#### **WARNING: HEALTH HAZARD**

Disinfectants may contain harmful substances that could injure the skin or eyes or damage respiratory organs if inhaled.

## 7. MAINTENANCE

Medical devices must undergo regular cycles of maintenance and review.

This is fundamental for complying with safety measures.

### **In accordance with IEC 62353**

The medical device’s manufacturer is responsible for defining the regular safety measures. The responsibility for implementing these measures is part of the organization or company, whether it is a hospital, clinic, laboratory, aesthetics, etc



**NOTE:** Always disconnect the device from the power source before doing any maintenance or inspection work to prevent the device from turning on involuntarily.

### 7.1 LIGHTING UNIT SUPPORT ARMS

All brackets must be checked by the operator for the following points:

#### **Every 6 months:**

- Deformations of the bracket system.
- Cracks in plastic pieces.
- Damage to the paint.

#### **Every year:**

- A detailed inspection of the bracket system, such as the clamping force of the spring arm, the fastening of the bracket etc.
- Extensive operational test, including the ease of movement of the joints.
- Electrical safety tests.


**WARNING: ELECTRICAL SHOCK**

Disconnect the unit from the power source during the whole of the checking process.

## 7.2 LIGHTING UNIT HEAD

The following inspections/maintenance must be carried out:

1. Check for any possible anomalies, cracks, deformations in plastic pieces and seals.
2. Carry out electrical safety tests.
3. Extended operational test.
4. Damage to the paint.

## 7.3 REPAIRS

The following indications must be followed:

- The product may only be opened and repaired by the manufacturer. Contact the After Sales department if necessary.
- It is totally prohibited to modify the device in any way.

\* (See Warranty Section).

## 7.4 ADJUSTMENTS

- The product is sold fully calibrated and does not require any additional adjustments.
- If the product becomes unstable over time and cannot maintain its position, please contact the After Sales department.

## 7.5 TROUBLESHOOTING

Contact the After Sales department in the following cases:

- The device does not operate.
- The product does not maintain its position.
- The light flashes.
- The light beam does not focus.

# 8. RECYCLING

After the useful life of the unit has come to an end, the device must be taken out of service and properly cleaned and disinfected for subsequent recycling. For its correct disposal, please contact an authorized recycling company.



**NOTE:** Do not dispose of the product with the usual domestic waste.



**TAKE ALL THE DISINFECTION AND/OR STERILIZATION MEASURES BEFORE DISPOSING OF THE DEVICE SO AS TO NOT CONTAMINATE THE ENVIRONMENT.**



# 9. TECHNICAL DATA

| PHOTOMETRIC DATA      |             |
|-----------------------|-------------|
| Light Source          | LED 8W      |
| Number of LEDs        | 60          |
| Illumination at 30 cm | 3.000 lux   |
| Lenses                | 5 diopter * |
| Color Temperature     | 6.500°K     |
| Color Rendering       | > 80%       |
| Useful life LEDs      | 50.000h     |

\* 3 and 8 diopter versions available upon request.  
Note: Illumination and color temperature values should be considered with a tolerance of +/-10%. Color rendering with tolerance of +/-3 percentage points.

| ELECTRICAL DATA       |                       |
|-----------------------|-----------------------|
| Supply Voltage        | 100 – 240 V AC +/-10% |
| Apparent Power        | 9 VA                  |
| Frequency             | 50 - 60 Hz            |
| Electrical Protection | Clase II              |
| IP                    | 20                    |
| Available plugs       | A, B, C, F, G, I      |
| Cable Length          | 3,00 mts              |

| ENVIRONMENTAL CONDITIONS FOR OPERATION   |                  |
|------------------------------------------|------------------|
| Ambient temperature                      | 10 °C a 40 °C    |
| Relative Humidity (without condensation) | 30% a 75%        |
| Atmospheric Pressure                     | 700hPa a 1060hPa |

| ENVIRONMENTAL CONDITIONS FOR STORAGE AND TRANSPORTATION |                  |
|---------------------------------------------------------|------------------|
| Ambient temperature                                     | -25 °C a 70 °C   |
| Relative Humidity (without condensation)                | 10% a 75%        |
| Atmospheric Pressure                                    | 500hPa a 1060hPa |

| PHYSICAL CHARACTERISTICS    |                       |
|-----------------------------|-----------------------|
| Box Dimensions              | 760 x 240 x 90 mm     |
| Gross Weight                | 3,22 kg               |
| Lighting unit Net Weight    | 2,40 kg               |
| Articulated Arm Length      | 900 mm (450 + 450 mm) |
| Head Dimensions             | 200 x 260 x 50 mm     |
| Magnification Lens Diameter | 127 mm                |
| Color                       | White                 |
| LEDs Protector              | YES                   |
| Lens Protection Lid         | YES                   |
| Head Rotation               | 200°                  |

\* All of the lighting units include the AH TABLE CLAMP mounting accessory by default.  
\* The gross weight of the lighting unit includes the net weight of the AH TABLE CLAMP accessory.

| REF      | MODEL                | GROSS WEIGHT | NET WEIGHT | BOX DIMENSIONS    |
|----------|----------------------|--------------|------------|-------------------|
| B0101800 | WALL B SUPPORT       | 0,25 KG      | 0,20 KG    | 91 x 221 x 122 mm |
| B010190  | AH TABLE CLAMP       | 0,37 KG      | 0,29 KG    | 91 x 221 x 122 mm |
| 82026    | RAIL PLUS BRACKET    | 0,24 KG      | 0,19 KG    | 115 x 175 x 75 mm |
| 09651    | TROLLEY STAND 8,8 kg | 9,18 KG      | 8,56 KG    | 160 x 160 x780 mm |
| B0101S0  | EXTENSION ARM        | 0,74 KG      | 0,56 KG    | 160 x 520 x 90 mm |

## 10. ELECTROMAGNETIC EMISSIONS

All electronic devices for medical use must comply with the requirements of the IEC 60601-1-2 standard.

Likewise, it is mandatory to respect the precautions, the information in the Electromagnetic Compatibility (EMC) guide included in this manual and the verification of all medical devices in simultaneous operation to ensure the electromagnetic compatibility and the coexistence of all other medical devices before undertaking a surgical procedure.

| MANUFACTURER DIRECTIVES AND DECLARATION - ELECTROMAGNETIC EMISSIONS                                                                                                                                                            |            |                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Our devices are designed to be used in an ELECTROMAGNETIC ENVIRONMENT as specified below. The user must ensure that the units can operate in that environment.</b>                                                          |            |                                                                                                                                                                               |
| <b>NOTA:</b> Home health care settings have higher immunity requirements than professional medical care facilities. Therefore, the interference immunity requirements for professional medical care centers are included here. |            |                                                                                                                                                                               |
| EMISSIONS TESTS<br>STANDARD BASIC EMC                                                                                                                                                                                          | COMPLIANCE | ELECTROMAGNETIC ENVIRONMENT                                                                                                                                                   |
| Conducted RF Emissions<br>CISPR11                                                                                                                                                                                              | Group 1    | The device only uses RF energy for its internal operations. Its RF emissions are therefore very low and are unlikely to cause interferences with nearby electronic equipment. |
| Radiated RF Emissions<br>CISPR11                                                                                                                                                                                               | Class A    |                                                                                                                                                                               |
| Harmonic Distortion<br>IEC (EN) 61000-3-2                                                                                                                                                                                      | Class A    |                                                                                                                                                                               |
| Voltage Fluctuations and<br>Flashing<br>IEC (EN) 61000-3-3                                                                                                                                                                     |            |                                                                                                                                                                               |

## MANUFACTURER DIRECTIVES AND DECLARATION – ELECTROMAGNETIC IMMUNITIES

**Our devices are designed to be used in an ELECTROMAGNETIC ENVIRONMENT as specified below. The user must ensure that the units can operate in that environment.**

**NOTE:** Home health care settings have higher immunity requirements than professional medical care facilities. Therefore, the interference immunity requirements for professional medical care centers are included here.

| STANDARD BASIC EMC IMMUNITIES TEST                           | TEST LEVEL IEC 60601                                                                                     | COMPLIANCE                                                                                               | ELECTROMAGNETIC ENVIRONMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrostatic Discharge (ESD)<br>IEC (EN) 61000-4-2          | ±8kV Contact<br>±15kV Air                                                                                | ±8kV Contact<br>±15kV Air                                                                                | Floors must be made from wood, concrete or ceramic tiles. If the floors are covered in synthetic material, the relative humidity must be at least 30%.                                                                                                                                                                                                                                                                                                                                                                                                |
| Electrical Fast Transients (bursts)<br>IEC (EN) 61000-4-4    | ±2kV for power lines<br>±1kV between phases                                                              | ±2kV for power lines<br>±1kV between phases                                                              | The quality of the electrical supply network must be equivalent to that of a commercial or hospital setting.                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Mains surge<br>IEC (EN) 61000-4-5                            | ±2kV between phases and earth<br>±1kV for input/output/earth lines                                       | ±2kV between phases and earth<br>±1kV for input/output/earth lines                                       | The quality of the electrical supply network must be equivalent to that of a commercial or hospital setting.                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Voltage Drops<br>IEC (EN) 61000-4-11                         | 0% UT (100% drop in UT); 0.5 cycles<br>40% UT (60% drop in UT); 10 cycles<br>0% UT (100% drop in UT); 5s | 0% UT (100% drop in UT); 0.5 cycles<br>40% UT (60% drop in UT); 10 cycles<br>0% UT (100% drop in UT); 5s | The quality of the electrical supply network must be equivalent to that of a commercial or hospital setting. If the device user requires continued use during power cuts, we recommend powering the device with a different power source or battery.                                                                                                                                                                                                                                                                                                  |
| Magnetic Field at Industrial Frequency<br>IEC (EN) 61000-4-8 | 30 A/m                                                                                                   | 30 A/m                                                                                                   | Magnetic fields at industrial frequency must be those of a typical hospital or commercial setting.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Radiated Radiofrequency<br>IEC (EN) 61000-4-3                | 3 V/m<br>80MHz - 6GHz                                                                                    | 3 V/m<br>80MHz - 6GHz                                                                                    | The distance between portable or mobile radiofrequency communication equipment and the device, including cables, must not be less than the recommended separation distance, which is calculated using the applicable equation for the transmitter frequency.<br>Recommended separation distance:<br>$d = 1,2\sqrt{P}$ ; < 80MHz<br>$d = 1,2\sqrt{P}$ ; de 80MHz - 800MHz<br>$d = 2,3\sqrt{P}$ ; de 800MHz - 2,7GHz<br>P is the maximum rated power output of the transmitter in watts (W) and d is the recommended separation distance in meters (m). |
| Conducted Radiofrequency<br>IEC (EN) 61000-4-6               | 3V<br>150kHz - 100MHz                                                                                    | 3V<br>150kHz - 100MHz                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

NOTE 1: UT is the AC network voltage before applying the test level.

NOTE 2: The upper frequency range is applied at 80MHz and 800MHz.

NOTE 3: These directives may not be applicable in all situations. Electromagnetic propagation is affected by the absorption and reflection of structures, objects and people.

## 11. WARRANTY

The Buyer must report any visible damage to the Products within a maximum of forty-eight (48) hours of receipt. After this time, MIMSAL will not be liable for the apparent damages the products may have and that have not been reported by Buyer. MIMSAL offers a guarantee of five (5) years from delivery on any defects that the Products may have.

It will be understood that the Products have a defect when, without having suffered any damage after their delivery, they are not suitable for use or they have a quality or performance level that is inferior to that stated in their technical specifications. It will be up to the Buyer to prove that the Product is non-compliant.

To exercise the warranty, the Buyer must inform MIMSAL in writing by sending an email to [after.sales@mimsal.com](mailto:after.sales@mimsal.com), indicating the defect, identifying the Product, the Batch number, the REF number of the purchase order and a photograph of the Product. This email must be sent within a maximum of ten (10) days of detecting the Product defect.

Upon receipt of this email, MIMSAL will try to see if it is possible to resolve the incident remotely, in which case it will respond to the Buyer with instructions on how to proceed or, conversely, if the Product must be sent to MIMSAL to be examined and, if necessary, repaired or replaced. The shipment of Products (including disassembly, transport, taxes, etc.) will be at the expense of the Buyer.

The warranty will consist of the repair or replacement of the Products, its elements and/or Mimsal`s installation accesories that are defective or deficient, or a refund for the amount of the price at MIMSAL's discretion.

The warranty granted to the Buyer by MIMSAL will not be applicable in the following cases:

- When the Products have not been used, stored, conserved, installed, handled, etc. in accordance with the instructions given by MIMSAL.
- When the Products have been manipulated, altered or modified by third parties.
- When the origin of the defects is not due to issues related to their manufacture or defects in the quality of their components.
- In the case of damage and/or defects suffered due to wear and tear from normal use of the Products.

The defective Products and/or materials that have been replaced by others will remain the property of MIMSAL. The warranty established in this clause is exclusive and replaces all other warranties related to the Products.

## 12. INDUSTRIAL AND INTELLECTUAL PROPERTY

All of the industrial and intellectual property rights relating to the Products, as well as the designs, texts, labeling, images, graphics, brands, technical documentation, manuals, etc., are the exclusive property of MIMSAL and the Buyer acknowledges and accepts this. In any case, these rights are protected by the regulations governing intellectual and industrial property, meaning it is forbidden to reproduce, modify, distribute and/or manipulate them.

Also, the Buyer will collaborate with MIMSAL in the maintenance of said intellectual and industrial property rights, immediately notifying MIMSAL of any action or circumstance that may infringe them and refraining from carrying out such actions.

The Buyer is obliged to abstain from registering in their name or in the name of third parties, brands or trademarks that are identical or similar to those used by MIMSAL or that could cause confusion for customers regarding the identity or character of MIMSAL or of the Products.

It is expressly forbidden to use the Products or any element of Industrial or Intellectual Property related to the Products that are the property of MIMSAL in such a way that may constitute a violation of the rights protected by law and specifically by any applicable legislation on Industrial and Intellectual Property.

MIMSAL reserves all actions that may protect it in the defense of its interests and rights.

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## 13. CONFIDENTIALITY

The Buyer undertakes to ensure confidential all information relating to transactions, Products, conditions of sale, etc., of which they become aware due to the purchase of the Products, for as long as this information is not in the public domain and unless its declaration is formally required by the judicial or other competent authority.

14. DECLARATION OF CONFORMITY

MD

MIMSAL

nº 2105

DECLARACIÓN UE DE CONFORMIDAD  
EU DECLARATION OF CONFORMITY

FABRICANTE PRODUCTO  
PRODUCT MANUFACTURER

MIMSAL TRADE S.L.

Dirección  
Address

C. Mollet 17, Polígono Industrial Palou Nord  
08401 Granollers (Barcelona) - Spain

SNR  
SNR

ES-MF-0000390030

DECLARAN BAJO SU RESPONSABILIDAD QUE EL PRODUCTO  
DECLARE UNDER THEIR RESPONSIBILITY THAT THE PRODUCT

Nombre del producto - BASIC UDI-DI  
Product name - BASIC UDI-DI

LUPA 843656286LUPAPA

Tipo  
Type

LUMINARIA CONLENTE DE AUMENTO  
MAGNIFIER LAMP

Referencia - Modelo - UDI-DI  
Reference - Model - UDI-DI

|         |                 |               |
|---------|-----------------|---------------|
| 09340   | LUPA LED H.F    | 8436562860073 |
| 09340-3 | LUPA LED H.F 3D | 8436562860509 |
| 09340-8 | LUPA LED H.F 8D | 8436562860516 |

Finalidad prevista  
Intended purpose

Lente convexa de aumento que concentra la luz eléctrica procedente de una fuente integrada, sobre los objetos visualizados  
A convex lens with a built-in electrical light source intended to be used to concentrate light upon and magnify an object(s) being viewed

CUMPLE LOS REQUISITOS DEL REGLAMENTO (UE) 2017/745 SOBRE PRODUCTOS SANITARIOS  
COMPLIES WITH THE REQUIREMENTS OF REGULATION (EU) 2017/745 ON MEDICAL DEVICES

Clasificación producto sanitario  
Medical device classification

CE CLASE I - ANEXO VIII - CAPÍTULO III - REGLA 13  
Class I - Annex VIII - Chapter III - Rule 13

Normas Aplicadas y Directivas  
Applied Standards and Directives

|                                           |                           |
|-------------------------------------------|---------------------------|
| UNE-EN 60601-1:2008+A12:2015              | Part 1 Medical equipments |
| UNE-EN 60601-1-2:2015                     |                           |
| UNE-EN 60601-2-41:2021                    | Part 2 Medical equipments |
| UNE-EN 60601-1-6:2010+A1:2015             |                           |
| UNE-EN 62366-1:2015 + A1:2020             |                           |
| 2011/65/EU (RoHS-Directive) + 2015/863/EU |                           |

Accesorios  
Accessories

|                           |                              |
|---------------------------|------------------------------|
| B0101800 - WALL B SUPPORT | 09651 - TROLLEY STAND 8,8 kg |
| B010190 - AH TABLE CLAMP  | B0101S0 - EXTENSION ARM      |
| 82026 - RAIL PLUS BRACKET |                              |

Lugar y fecha  
Location and date

Granollers (Barcelona) España, a 20 de Enero de 2025  
Granollers (Barcelona) Spain, January 20th, 2025

Nombre y cargo  
Name and position

Roger Codina Miró  
Director General  
General Manager

Jorge García González  
Responsable Técnico  
Technical Manager





# CERTIFICATE

No.

EC-10220/25

**LGAI Technological Center, S.A. (Applus+)**  
certifies that the Quality Management System of the organization:

## MIMSAL TRADE, S.L.

C/ Mollet, 17  
08401, Granollers (Barcelona)

For the following activities of:

Design, manufacturing, marketing, and technical service of luminaires and medical devices for illuminating the patient's body and illuminating X-rays films in the visible spectrum: examination lamps, magnifying lamps for medical use, and negatoscopes

**is in accordance with the requirements of the standard ISO 9001:2015**

|                                  |            |
|----------------------------------|------------|
| INITIAL CERTIFICATION DATE:      | 20/04/2016 |
| EXPIRATION PREVIOUS CYCLE:       | 20/04/2025 |
| EFFECTIVE FROM:                  | 21/04/2025 |
| RENEWAL AUDIT:                   | 04/04/2025 |
| THIS CERTIFICATE IS VALID UNTIL: | 20/04/2028 |

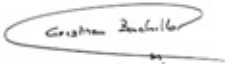
The certificate comes from a previous one issued on the date 20/04/2016 by another Certification entity

Managing Director  
Applus+ Certification, B.U.



Xavier Ruiz Peña

Technical Director  
Applus+ Certification, B.U.



Cristina Bachiller Martínez

This certificate will be regarded as valid provided that all the contract conditions for which it is part of were fulfilled  
LGAI Technological Center, S.A. (Applus+) Campus U.A.B., Ronda de la Font del Carme s/n, 08193 Bellaterra, Barcelona







CERTIFICATE

No.

PS-0080/25

**LGAI Technological Center, S.A. (Applus+)**  
certifies that the Quality Management of the Sanitary Products System  
of the organization:

**MIMSAL TRADE, S.L.**

C/ Mollet, 17  
08401, Granollers (Barcelona)

For the following activities of:

Design, manufacturing, marketing, and technical service of luminaires and medical devices for  
illuminating the patient's body and illuminating X-rays films in the visible spectrum: examination  
lamps, magnifying lamps for medical use, and negatoscopes.

**is in accordance with the requirements of the standard UNE-EN-ISO  
13485:2018**

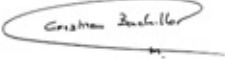
INITIAL CERTIFICATION DATE: 13/06/2025  
THIS CERTIFICATE IS VALID UNTIL: 12/06/2028

Managing Director  
Applus+ Certification, B.U.



Xavier Ruiz Peña

Technical Director  
Applus+ Certification, B.U.



Cristina Bachiller Martínez

This certificate will be regarded as valid provided that all the contract conditions for which it is part of were fulfilled  
LGAI Technological Center, S.A. (Applus+) Campus U.A.B., Ronda de la Font del Carne s/n, 08193 Bellaterra, Barcelona



**mimsal**

MIMSAL TRADE S.L.

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[www.mimsal.com](http://www.mimsal.com)

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30.10.2025