



Sidèrea
3KL
BACTERIAL KILLER



EXPERIENCE AND INNOVATION
SINCE 1948

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1 SAFETY REQUIREMENTS

Dear Customer,

FARO wishes you good work with your new high quality lamp. In order to work safely and to make the most of the product's performance, please read this manual carefully before using the device. In particular, please follow all warnings and notes.

1.1 SYMBOLOGY USED

1.1.1 Symbology used within the manual




















	WARNING
Paragraphs marked with this symbol contain instructions that must be performed carefully to avoid damage to the device, the operator and the patient.	
	ATTENTION
These instructions warn that great care must be taken to avoid situations that could damage the device.	
	PROHIBITION
This icon highlights what not to do to avoid damage to the device.	
	NOTES
With this icon, information is provided that allows the device to be used in a more effective.	

1.1.2 Symbologies in labelling product

The nameplate is attached to the top and bears the following data:

Serial Number (SN): year (AA) / family (AL) for Lucè environment plus progressive number (NNNN) e.g.: SN17AL000001.

The following harmonised symbols are also present:






Symbol	Description	Symbol	Description	Symbol	Description
	European Conformity Marking RED Directive 2014/53/EU		Use the device at a temperature between 10°C and 40°C		Protect packaging from rain and high humidity
	Read the instructions for use. Supplied electronically.		Use the device at a pressure between 80 kPa and 106 kPa		Do not roll
	Manufacturer Symbol under RED Directive		Use the device at a relative humidity between 30 RH and 75RH		Do not use hooks
	Instructions for use include safety warnings		Recyclable cardboard		Maximum stackable weight
	WEEE equipment according to Directive 2012/19/EC.		High		Storage and transport temperatures
	Serial number		Fragile		Relative humidity during storage and transport
					Storage and transport atmospheric pressure

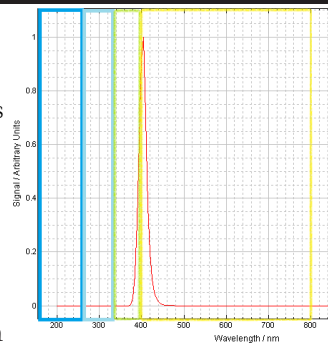
1.1 INTENDED USE





The lamp is intended for:

- lighting in workplaces including medical practices
- disinfect surfaces by using light energy at a nominal frequency of 405 nm.

The device must be installed on the ceiling by qualified personnel.

	<p>The ceiling must be able to withstand 40 kg per fixing point.</p>
	<p>The device is classified as risk class 2 according to EN 62471.</p> <div style="border: 2px solid black; padding: 5px; text-align: center;"> <p>Risk Group 2</p> <p>CAUTION. UV emitted from this product. Eye or skin irritation may result from exposure. Use appropriate shielding</p> <p><i>Product tested against IEC62471</i></p> </div>
	<p>Warning against photobiological danger</p> <p>UV radiation covers that portion of the electromagnetic spectrum with a wavelength between 100 and 400 nanometres (nm) and are divided into three categories main:</p> <ul style="list-style-type: none"> • UVA (315-400 nm) • UVB (280-315 nm) • UVC (100-280 nm) <p>The Siderea lamp in operation in disinfection emits radiation in the spectrum between 370 and 400 nm, thus emitting only UVA.</p> <p>This mode of use allows the presence of humans or animals only for certain time limits beyond which personal protective equipment is required.</p> <p>The 8-hour exposure time limits are:</p> <ul style="list-style-type: none"> • Actinic risk (skin): 145 min • Richio near UV (eyes): 110 s <p>These values are indicative for a distance of 200 mm from the light source.</p> <p>If there is a risk of these exposure limits being exceeded, appropriate Personal Protective Equipment must be used for:</p> <ul style="list-style-type: none"> • Cute exposed; • Eyes (glasses with UV400 protection); <p>When operating in Sunlight mode, the lamp is classified as Risk Group Exempt.</p> <p>However, it cannot be ruled out that particularly photosensitive patients or patients who have taken photosensitising medication may experience erythema or allergic reactions to light. In this case, discontinue treatment and use very low illumination levels.</p>
	<p>Warning against electrical or fire hazards</p> <p>Do not use the lamp if its components are damaged. The device must only be installed by qualified personnel. The device must be installed with a mains disconnection device of omnipolar type and compliant with IEC 61058-1, fitted with an earth cable.</p> <p>Check that the supply voltage, indicated on the nameplate, matches to that of the network.</p> <p>Do not carry out any maintenance work on the lamp when the power supply is switched on: therefore disconnect the power cable from the mains before working on it.</p>
	<p>Warning of danger from falling masses</p> <p>Strict adherence to the maximum permissible loads must be observed.</p>



	<p>Explosion Hazard Warning</p> <p>The device is not suitable for installation in environments with in-flammable or oxygen-rich gases.</p>
	<p>Warning of the danger of incorrect maintenance</p> <p>Do not service or replace parts other than those specified in the manual. Any work not indicated in the manual could compromise the safety aspect of the device.</p> <p>Only carry out maintenance operations described in the manual; in any other case, please contact technical support.</p>
	<p>Warning of danger of damage</p> <p>To avoid the risk of damaging the product, do not push and/or force the panel light diffuser.</p>
	<p>Disposal Warning</p> <p>The Product is covered by the WEEE Directive 2012/19/EU</p> <p>When scrapping and disposing of materials, please comply with the regulations in force in your country. At the end of the lifecycle divide the materials according to their type (ferrous, rubber, etc.) but, plastic).</p> <p>Do not leave small parts of the equipment unattended or within reach of exposed persons (children) as they are potential sources of danger.</p>

FARO shall not permit any changes to the product that are not expressly authorised in writing, under penalty of forfeiture of conformity with safety regulations and warranty.

1.2 CONSERVATION AND USE: ENVIRONMENTAL PRESCRIPTIONS

The device in its original packaging can be transported or stored for a period of 15 weeks if the following environmental conditions are met:

- Ambient temperature -20°C to +70°C
- Relative humidity from 10% RH to 90% RH
- Atmospheric pressure from 50 kPa to 106 kPa

The device must be used under the following environmental conditions:

- Temperature from 10° to 32°C
- Maximum altitude: 2000 m
- Relative humidity 30% RH to 75% RH

2 GENERAL CHARACTERISTICS

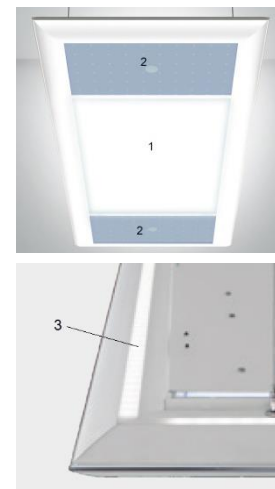
2.1 GENERAL DESCRIPTION OF PRODUCT

The device serves to

1. lighting the working environment
2. disinfect surfaces

The two functions cannot be activated at the same time, so the device is designed to operate in two unique modes:

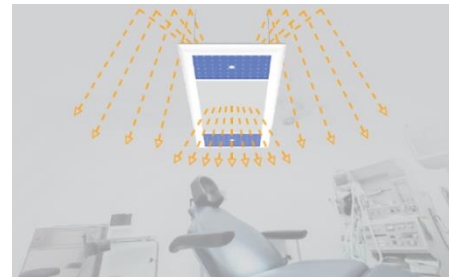
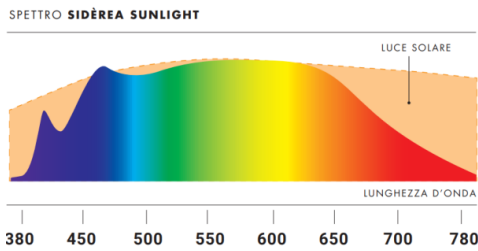
- **Sunlight (SL):** to illuminate the working environment, through lighting of the LEDs in the central panel (1). Sunlight mode includes lighting on top of the device (3).
- **Bacterial Killer (BKL):** for surface disinfection, through switching on the side panels (2).



2.1.1 Sunlight Mode (SL)

The light source consists of LEDs on the bottom panel and the top of the device.

The LEDs on the bottom panel are characterised by solar spectrum emission.



The light from the lower panel is diffused by passing through specific diffusers that allow for a regular and uniform light spot at every illumination level and to distribute the light evenly in the room, without creating shadows or obscuring it from the operator.

Adjustment of the light intensity must be carried out with the radio remote control and can be performed in synchronisation with the pre-set Faro dental lamps.

Five standard scenarios are available for the selection of different illuminance combinations in order to always provide the necessary visual comfort.

2.1.2 Bacterial Killer Mode (BKL)

The light source consists of LEDs with a limited emission spectrum between 370 and 415 nm whose light passes through high transmittance panels.

Blue light at a nominal wavelength of 405-nm is recognised a treatment for environmental microbial contamination (antimicrobial blue light [aBL]).

It is recognised that microbes are less able to develop resistance to aBL than to conventional antibiotics, due to the multi-target characteristics of aBL. Furthermore, it is well recognised that aBL is much less harmful to host cells than UV-C irradiation.

The recognised mechanism responsible for the antimicrobial effects of aBL (405-nm) is the excitation of endogenous photosensitising porphyrins and the subsequent generation of singlet oxygen, resulting in lipid peroxidation, DNA damage, cell wall damage and cell apoptosis of microbial cells.

The bactericidal efficacy of Siderea BKL has been tested on:

- Escherichia coli ATCC 8739
- Staphylococcus aureus ATCC 43300

Virucidal efficacy was evaluated on:

- SARS-COV-2

The disinfectant efficacy of the device depends on the dose (J/cm²) delivered to the irradiated surface.

Siderea has 3 pre-set disinfection programmes of different duration and effectiveness available.

- Short cycle 15 minutes: recommended in the patient-to-patient break
- Average cycle: 90 min recommended during lunch break
- Long cycle: 180 min recommended overnight

The maximum efficacy of these cycles at a distance of the lamp from the surface of 1350 mm (assumed as the typical distance between the light source and dental unit chair) is as follows (values) subject to tolerance

Time (min)	Distance (mm) 1350	SARS-COV-2	E. Coli	S. Aureus
15	CFU Reduction %	86	61	81
90	CFU Reduction %	96	79	93
180	CFU Reduction %	99	92	98

Through the use of Wi/Fi, it is possible to connect to the lamp via a web browser and access a number of functions that cannot be managed via the remote control.



2.2 DESCRIPTION OF PARTS

Inside the sales package are:

- A. Siderea BKL lamp
- B. Radio control
- C. Radio control support
- D. Fastening Elements
 - 4 Threaded washer
 - 4 Aesthetic bushing
 - 4 Wall plugs with Ø 6 mm screws
 - 4 steel cables for product suspension
- E. Instructions for downloading the User and Installation Manual
- F. Quick Guide
- G. Ceiling drilling jig for installation

2.3 WARNING LIGHTS ON THE DEVICE

Two light signals are available on the device:

1 - Blue LED

2 - Green LED




The blue LED is activated when connecting to the dental bulb.

The green LED lights up when the disinfection cycles start.

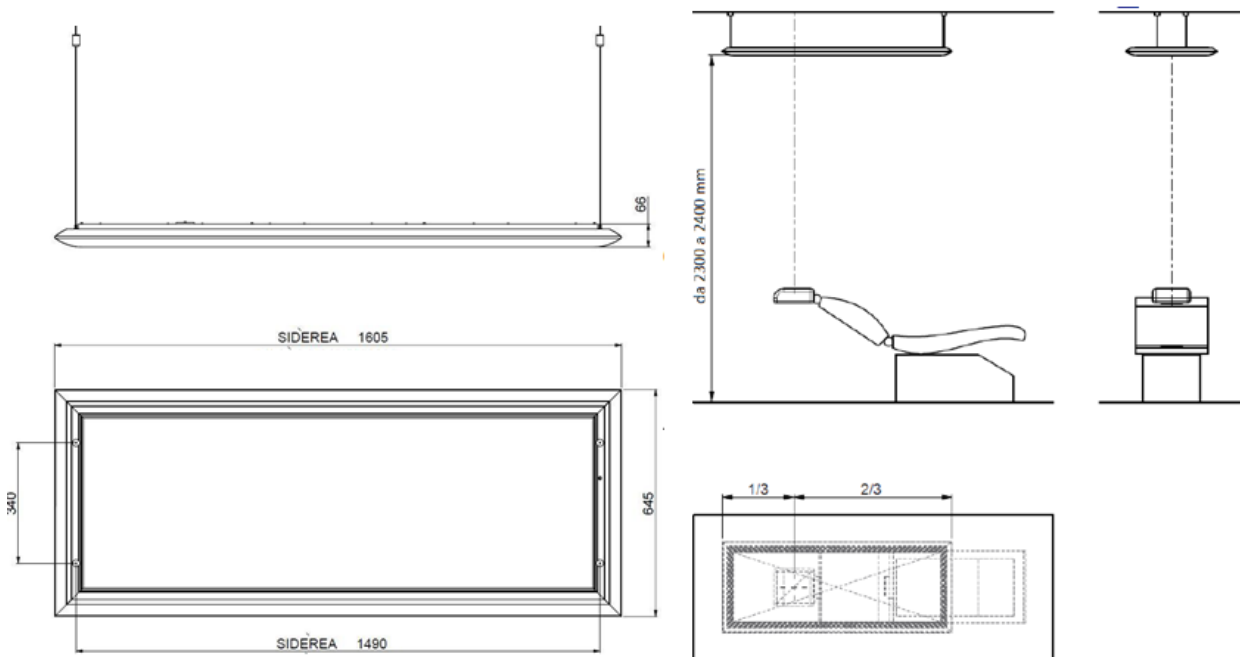
The status of luminous signals is explained below:

Colour Light	Status	Meaning
Blue	ON	BKL Active
Red	ON	Call Service
Green	ON	SL Active
Green	Blink	Pairing with active dental lamp

3 DEVICE INSTALLATION

	Warning of electrical hazard, for lamp and head:
	The device must be installed by specialised technicians. At installation, the power supply must always be switched off. Use a terminal block conforming to EN 60998-2-1 or EN60998-2-2 for connection. ES: Cembre Z205-1 Zetamini series Check the nameplate data before installation.
	Note for installation
	The function or safety of the lamp depends on the polarity of the supply current. Therefore, the polarity N and L must be respected. N: Neutral cable colour Blue L: Phase. Brown cable
	Note for installation
	Support/remove the lamp using the outer profile. Do not force on the pan- in the diffuser (white).

3.1 OVERALL DIMENSIONS AND POSITIONING



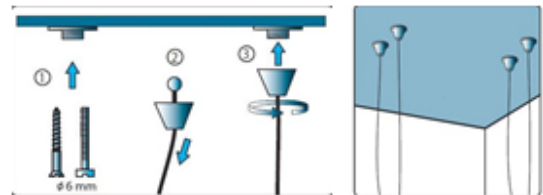
3.2 CEILING INSTALLATION

The Sidera lamp is complete with ceiling fixings as described in section 2.2

Fix the drilling jig to the ceiling following the instructions of 3.1 for positioning.

Drill the ceiling in the predetermined position with a drill bit suitable and insert dowels.

- 1) Position the threaded washers at the holes in the ceiling
- 2) Secure the washers with the $\varnothing 6$ screws
- 3) Thread the steel cable into the bushings and screw them in to threaded washers



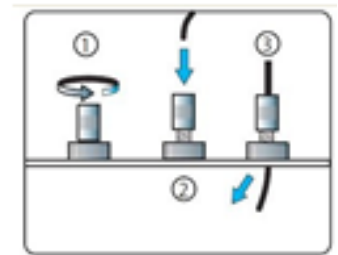
Fasten the lamp to the suspension cables:

- 1) Partially unscrew the knob
- 2) Press the knob
- 3) Insert the steel cable

Hang the lamp via the steel cable system

Fix the height of the lamp to between 2200/2400 mm.

To adjust the height, turn the 4 knobs on the top of the ambient light



Check that it is level.




Installation notes

Ensure the tightness of the plugs in the ceiling by applying an axial load of at least 15 kg. Failure to comply may result in the product becoming detached with risk of falling on persons.

Proceed with electrical wiring, taking care to respect the polarity of Phase and Neutral.

- Phase: brown cable
- Neutral: blue cable
- Earth: Green/yellow cable

4 INSTRUCTIONS FOR USE

	Notes for the user
	<p>The 2 modes of operation</p> <ul style="list-style-type: none"> • Sunlight (SL) • Bacterial Killer (BKL) <p>are alternatives to each other and cannot run concurrently. Please refer to section 1 of this manual for risks associated with the use of BKL mode</p>

4.1 MAIN FUNCTIONS OF THE RADIO CONTROL

The lamp in Sunlight mode is switched on and adjusted via the supplied remote control. Switching on and off can also be done via the omnipolar switch in the room.

In this case, the lamp will switch on in Sunlight mode at the last used illuminance level.

The presets stored on the remote control in BKL mode represent 3 dose values increasing with increasing operating time.

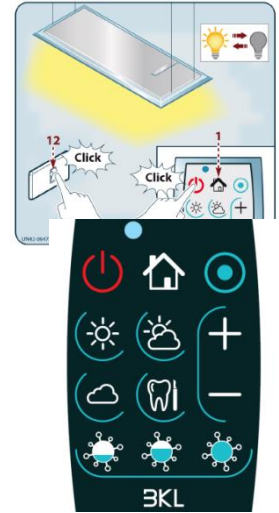
The lamp in BKL mode can be controlled by the 3 dedicated buttons on the remote control. Pressing the BKL function buttons will activate the disinfectant light and simultaneously switch off the Sunlight.

Pressing the 3 BKL buttons again will switch off the BKL light, but the top panel lights will remain on.

Pressing on a Sunlight scene button will switch on the Sunlight light and simultaneously switch off the BKL mode.












If during one of the BKL cycles the radio control is operated, the disinfection cycle is cancelled. During the BKL cycle, it is not possible to change the irradiation value (the + / - buttons are deactivated).

The presets set on the remote control for SL mode represent 5 levels of increasing light intensity.



Level 1 Level 2 Level 3 Level 4 Level 5

To go to maximum and minimum levels in SL mode, press the Adjustment button

Key	Function	Key	Function	Key	Function
	On: SL ignition Off: SL or BKL switch-off		Home Mode SL: level 1 LS: On BKL: off		Programming button: provides access to the 'Overwrite' and 'Reset' functions.
	Sunny Mode SL: level 2 LS: On BKL: off		Mode: partly cloudy SL: level 3 LS: On BKL: off		Regulation: SL intensity variation from 0% to 100%. Only with SL in ON.
	Mode: covered SL: level 4 LS: On BKL: off		Mode: Surgery SL: level 5 LS: On BKL: off		
BKL FUNCTIONS					
	1st Click BKL light: ON 15 min SL light: OFF Upper Light: ON 2nd Click with BKL in ON state: SL light: ON Upper Light: ON BKL light: OFF		1st Click BKL light: ON 90 min SL light: OFF Upper Light: ON 2nd Click with BKL in ON state: SL light: ON Upper Light: ON BKL light: OFF		1st Click BKL light: ON 180 min SL light: OFF Upper Light: ON 2nd Click with BKL in ON state: SL light: ON Upper Light: ON BKL light: OFF

4.2 SECONDARY FUNCTIONS RADIO CONTROL

4.2.1 Changing the illuminance level on an existing scenario

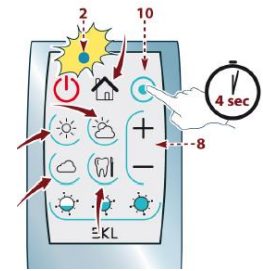
Set the desired illuminance level with the adjustment button (8)

Press the two indicated buttons simultaneously for 4s:

that of the scenario to be modified and that of programming 10.

Release the buttons when LED 2 flashes

Note: Modification is possible on all 5 SL scenarios



4.2.2 Restore initial settings

This function deletes all customisations of scenarios reverting to factory ones.

– Press buttons 1 and 10 simultaneously for about 5 seconds.

– Release the controls when the LED turns solid.

Note: Modification is possible on the 5 SL scenarios



4.2.3 Changing the coding of the radio control

This function creates a new communication coding between the radio control and the lamp. It should only be used if it is necessary to pair a new radio control in place of the one in use.

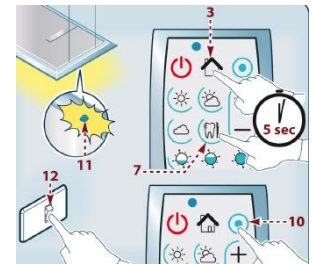
Switch off power to the lamp with the switch.

Switch the power back on and within 60 seconds press buttons (3-7) simultaneously.

LED 11 starts flashing.

Release the buttons as soon as the green LED 11 becomes steady. Press programming button 10, light 11 flashes several times and then goes out.

The new remote control was matched.



4.2.4 Syncro Mode With Dental Lamp

The 'Syncro' mode is specifically designed to improve user comfort in order to reduce the glare effect generated when switching from observing a strongly lit surface (e.g. oral cavity with dental lamp) to a dimly lit surface (e.g. dental quiver). The 'Syncro' mode allows the illuminance value of the Sidèrea to be changed automatically by controlling the dental lamp.

In 'Syncro' mode, the dental lamp acts as 'Master', i.e. it has control over the room lamp.



A small delay in synchronisation may occur between the dental lamp and Sidèrea. This is due to the communication protocol, this effect is normal and not a defect.


To be enabled, the "Syncro" function requires a pairing procedure called "Pairing" (which only needs to be carried out once) in order to create the link between the two lamps. Subsequently, the "Syncro" function can be enabled and/or disabled by the user via the button on the dental lamp.

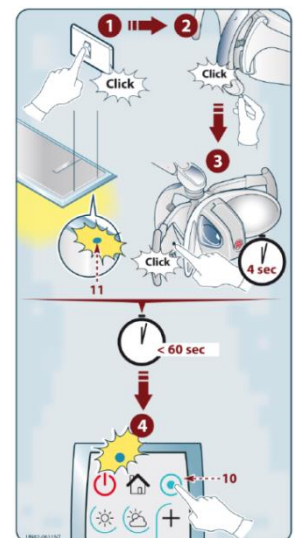
4.2.5 Pairing Procedure



The 'Pairing' procedure is only necessary at the first connection, however, it can be repeated in the case of replacement of the dental lamp or the electronics of either lamp in the system.

If there is more than one ambient lamp in the study, make sure that the other lamps are switched off or on for more than 60 seconds.

1. Energise the Sidèrea ambient lamp you wish to couple.
The ambient light remains in listening/waiting mode for up to 60 sec.
2. Press the "syncro" button on the dental lamp for at least 3 sec. but no longer than 6 sec. otherwise the procedure is aborted and the software continues as if the button had not been pressed. Upon receiving the "Pairing" request from the dental lamp, the ambient lamp activates the green LED on the frame.
3. Press the programming button  on the radio control within 60 seconds of operation 2 (syncro), the green LED flashes twice and then goes out.



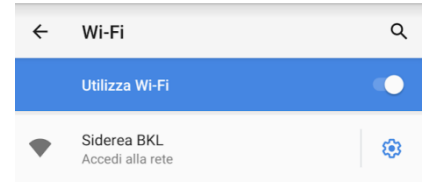
4.3 RADIO CONTROL BATTERY REPLACEMENT

The battery can be accessed through the door on the back of the radio control; replace it with one of the same type, observing the polarity indicated:

MOD: LR-23A/12V

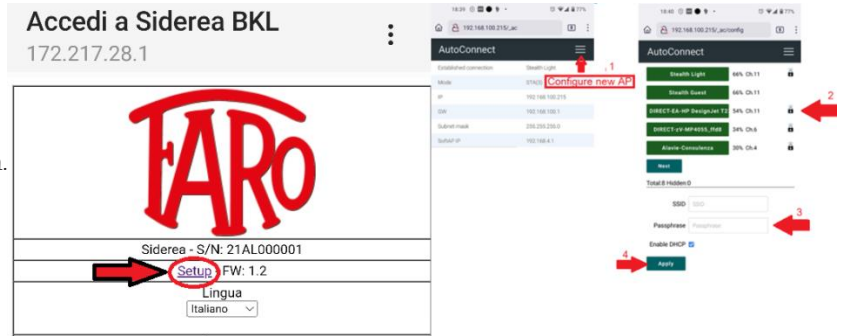
4.4 CONNECTION TO THE WI-FI NETWORK

To connect the Siderea BKL to the Wi-Fi network, proceed as described below.
 Open the device's Wi-Fi network search:
 Select 'Siderea BKL'.
 Password: Faro1948
 At this moment you have entered the Siderea setup page.



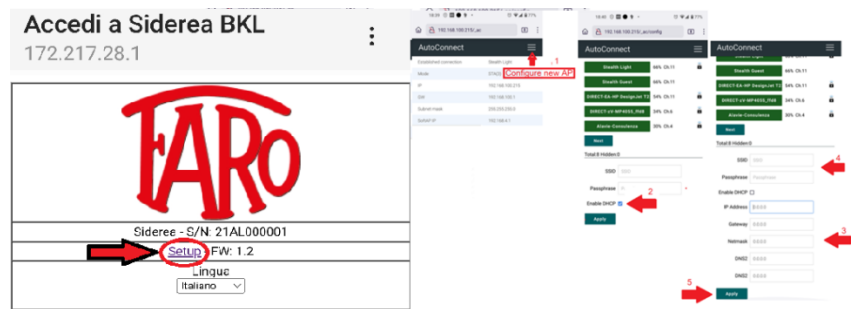
4.4.1 Connect the lamp to the internal wi-fi network with Automatic IP

Select reference language -
 Select 'Setup'.
 The network settings page will open
 1 - From the menu at the top right, select "Configure new AP"
 The page of available internal networks will open.
 2 - Select wi-fi network;
 3- Enter the network password;
 4 - click on Apply;
 the system restarts and redirects the page on the newly acquired IP address.



4.4.2 Connect the lamp to the internal wi-fi network with IP Manual

Select reference language -
 Select 'Setup'.
 The network settings page will open
 1 - From the top-right menu, select "Configure new AP".
 The page of available internal networks will open.
 2 - Select wi-f network and uncheck DHCP
 3 - Manually enter IP, Gateway and Subnet Mask
 4 - Enter Password
 5 - Click on Apply
 the system reboots and redirects the page to the new IP address.



4.5 CUSTOMISED SIDEREA SETTINGS ON WEB PAGE

Once connected to the wi-fi network Siderea BKL allows the user to take advantage of the web application designed for the following customisations.

Sunlight functions:

- display data on the operating hours of the Sunlight divided by the light output.

Bacterial Killer functions:

- set the BKL weekly disinfection programme and
- display and print data on the disinfection cycles performed,

4.5.1 BKL: setting disinfection programmes

Open the web page.

In the section:

BKL planning

for each day of the week set the cycle by selecting:

- 90 minutes
- 180 minutes

If you wish to set a customised duration, enter it in the Free field the value in minutes.

The daily cycle can be left deactivated by selecting 'deactivated'.

Enter the start time of the cycle by selecting from the drop-down menu,

Click on

SAVE To save data.

Domenica	<input checked="" type="radio"/> Disattivato <input type="radio"/> 90 Minuti <input type="radio"/> 180 Minuti <input type="radio"/> 5 Minuti	00:00
Lunedì	<input checked="" type="radio"/> Disattivato <input type="radio"/> 90 Minuti <input type="radio"/> 180 Minuti <input type="radio"/> 5 Minuti	00:00
Martedì	<input checked="" type="radio"/> Disattivato <input type="radio"/> 90 Minuti <input type="radio"/> 180 Minuti <input type="radio"/> 5 Minuti	00:00
Mercoledì	<input type="radio"/> Disattivato <input type="radio"/> 90 Minuti <input type="radio"/> 180 Minuti <input checked="" type="radio"/> 5 Minuti	17:23
Giovedì	<input checked="" type="radio"/> Disattivato <input type="radio"/> 90 Minuti <input type="radio"/> 180 Minuti <input type="radio"/> 5 Minuti	00:00
Venerdì	<input checked="" type="radio"/> Disattivato <input type="radio"/> 90 Minuti <input type="radio"/> 180 Minuti <input type="radio"/> 5 Minuti	00:00
Sabato	<input checked="" type="radio"/> Disattivato <input type="radio"/> 90 Minuti <input type="radio"/> 180 Minuti <input type="radio"/> 5 Minuti	00:00
	Salva	

4.5.2 Viewing operation reports

In the section:


COUNTERS

Data on the operation of the device are available.

Contatori	
Ore stand-by :	266
Ore Sunlight 0-24%:	48
Ore Sunlight 25-49%:	0
Ore Sunlight 50-75%:	1
Ore Sunlight 75-100%:	0
Ore totali Sunlight:	49
Ore totali BKL:	4 - 4
Totale cicli BKL:	4

Disinfection Cycles are saved in the

BKL data register

	the system stores the last 30 days, so if necessary it is recommended to save printouts of previous days.
---	---

The system saves only those disinfection cycles that have exceeded the preset or customised minimum time indicated:

- Standard cycle duration
- Start Day
- Start time

Data can be printed via the 'print' function






Registro dati BKL		
Data	Minuti lavoro	Cicli eseguiti
4/4/22	6	0
3/4/22	275	1
2/4/22	0	0
1/4/22	0	0
31/3/22	0	0
30/3/22	15	9
9/3/22	0	0
8/3/22	0	0
7/3/22	0	0
6/3/22	0	0
5/3/22	0	0

5 ROUTINE MAINTENANCE

There are no routine maintenance operations.

Please contact a specialist technician for the replacement of lighting panels.

6 CLEANING

 	<p>Warning against the danger of degradation and corrosion</p> <p>The use of abrasive, acidic, chlorine- or chlorine ion-containing, trichloro-, petrol-, turpentine-, turpentine- or similar cleaning agents is strictly prohibited for all metal or plastic lamp parts. It is forbidden to spray any chemical substance directly onto the device.</p>
 	<p>Warning</p> <p>Do not use detergent-disinfectants containing:</p> <ul style="list-style-type: none"> • AMMONIUM HYDROXIDE • SODIUM HYDROXIDE • METHYLENE CHLORIDE • ME THYL ALCOHOL. • ACIDS OF ALL KINDS
	<p>Notes for cleaning</p> <p>Do not force the panel during the cleaning operation.</p>

7 TROUBLESHOOTING

Effect	Cause	Action	Resp
The lamp does not light.	The power supply is missing network.	Check that mains power is enabled.	User
		Check that the mains supply is correct.	User
The lamp does not adjust.	The remote control has a low battery.	Replace the battery.	User
	The distance between the ambient light and the radio control is too great.	Bring the radiocontrol closer to the lamp.	User
	The radio control used is that of another room lamp.	Check with other radio controls at provision.	User
	The remote control has been reset or has lost its internal coding.	Re-pair as described in the operating instructions section.	User
The ambient light automatically changes the illuminance.	The 'Syncro' function with the dental lamp is active.	Disable the 'Syncro' function via the dental lamp control.	User
The light emitted by the ambient light does not correspond to the scenarios of the radio control.	Radio control settings were changed.	Perform a scene reset via the remote control as described in the operating instructions section.	User

For all other issues, please contact Faro Spa's authorised technical service.

8 TECHNICAL SPECIFICATIONS

SW: release 1.2

Supply voltage : 230 Vac \pm 10% - 50/60 Hz

Maximum power (BKL function): 350 VA

Net weight: 18 kg

Dimensions: 1605 x 645 mm

Illuminance at 1400 mm SL mode: 2,200 lux

SL mode colour temperature: 6500 K

TM 30 SL mode: Rf 97.3 / Rg 100.3

UGR SL mode: <10

Protection against electrical hazards: Class I

Risk class EN 62471:

- BKL Mode 2
- Sunlight mode: 0

Radio control battery: LR-23A/12V Transmitter frequency

Radio frequency: 433.92 MHz

Reference standards: RED Directive

Typical near-UV source spectrum:

