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Dear Practitioner,

As the recent purchaser of an **E-E**ye, I would like to thank you for your confidence in our product.

Habits are changing, and **E-Eye** is a practical example of this fact. Your patients can now enjoy the benefits of a new treatment for meibomian blepharitis (dry-eye syndrome) using state-of-the-art pulsed light technology, with complete safety and in a compact format.

You have my personal assurance that the greatest care has been taken in the manufacture of each **E**+**E**ye; as you will see for yourself, **E**+**E**ye is an exceptional product.

I hope that your device will give you complete satisfaction, and that you will choose to share your experience on the website **www.esw-vision.com**.

With sincerest regards,

Yves Vincent Brottier Creator of **E-E**LIP

ACCESSORIES **E**•**E**U@



E▶**E**∪**2** base unit and applicator.



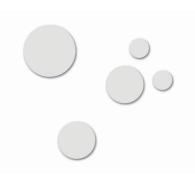
optic - Consumable cartridge (included with your **E**▶**E**LJ**©** applicator).



activation card **E►E**U@.



clean Optical spray.



patches Self-adhesive patches (per sheet).



stop Guide plate.



power cord.



gel (flashing intended gel – 85 ml).



pairs of eule mask protective shells (in special packaging).



consents to be completed by patients.



mask - Protective glasses.



user manual



extractor Extraction tool for the mobile head.



PRECAUTIONS FOR USE

I FOR YOUR SAFETY

Before using your **E**>**E****J****Q**, the following information should be read carefully:

- Service voltage: 100 240 V a.c.
- Rated frequency: 50-60 Hz.
- Maximum power consumption: 540 VA.
- Check that this voltage is consistent with the voltage rating of your installation. Any connection error may cause irreparable damage which is not covered by the guarantee.
- Check that the power socket to which your **E**•**E**y**2** is connected is not damaged, is in perfect working order, and will not impair the correct use of your **E**•**E**y**2** (the power socket must be easily accessible).
- This device is reserved exclusively for the use of ophthalmological specialists.
- Never disconnect **E**•**E**U**2** by pulling on the power cord in normal use.
- In case of emergency, E→ELJQ may be separated from mains by disconnecting the power cord on either side.
- Never use **E**•**E**LJ**Q** with wet hands.
- E-Eye must not be used in any location in which the device might be exposed to water spray (on either the applicator or the base unit).
- Never immerse the **E**▶**E**∪**2** base unit, its applicator or the **E**▶**E**∪**2** optic cartridge in water.
- E-EUP must not be used if it is damaged, in case of the display of a functional anomaly on the touch screen, or if the device has been dropped (concealed damage may jeopardize your safety and the safety of your patient).
- This device can only be repaired using special tools. In case of any problems after delivery, contact us by filling out the contact form on www.esw-vision.com/contact.
- E-Europtic cartridges, and all accessories in general, must be ordered exclusively by visiting www.esw-vision.com/contact and choosing the applicable contact for your country. We cannot accept any liability associated with the use of consumable cartridges and accessories supplied by another manufacturer.
- During operation, the device must be positioned on a flat supporting surface, in a location where there is no risk of the device being dropped.

- E-Swin SAS cannot accept any liability for damage resulting from the incorrect use of the device, or from the use of the device other than as described in the present user manual.
- Attention Using controls or setting or performance of procedures others than those specified in this user manual may result in exposure to dangerous optical radiation.
- Each of your patients must be supplied with a pair of eye mask protective shells. The protective shells eye mask must be worn throught the operation of the device by the patient.
- One pair of glasses mask is supplied with the device: these glasses should be worn throughout the operation of the device by the professional user of E>Eye.
- Once **E**•**E**ye is in service, it must not be brought into contact with the hair, the area covered by the eye mask protective shells, clothing or any other object, in order to avoid any risk of injury, obstruction or deterioration.
- The tip of the applicator must not be in contact with the eye mask shells at the time of administration of the flash.
- The device must never be used in the proximity of an aerosol, in the proximity of a heat source, or in the proximity of other electronic devices.
- The device must not be stacked on other electronic devices.
- Your E-Eyo is supplied with a mains lead (2 metres in length) and an applicator lead (2 metres in length). No extension cable, or any cable other than those supplied by E-Swin, should be used the device may otherwise be rendered non-compliant for electromagnetic purposes.
- Wireless communication devices must be kept at a distance (approximately 3 metres), as these may impair the correct operation of the device.
- The device must be installed in an environment which is substantially free of electromagnetic interference (from computers, electrical treatment appliances, etc.).
- Earth conductor is only used as functional earth.

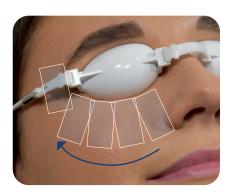
■ COMPATIBILITY CRITERIA

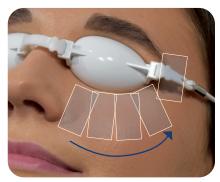
E►**E**LIQ must not be used on persons who are unsuitable for pulsed light treatment; specifically, where one of the following criteria are fulfilled:

- On pregnant women.
- On black skin (phototype VI).
- On sunburned skin which has healed within the last month.
- In case of a previous history of sunlight allergy.
- On skin that has been exposed to high pressure UV for less than ten days.
- On persons who have applied a self-tanning product (cream, dietary supplement) for less than two months.
- On an injured, burned, or infected skin.
- On skin lesions of unusual appearance, which will require investigation.
- On high-risk areas (blemishes, birthmarks, warts, unhealed wounds...).
- On persons suffering from a skin condition (eczema, inflammation, acne...)
- On moles: if they are located on the zone to be treated, they must first be protected, for example by covering them with the self-adhesive patches provided with your **E**>**E**LJQ.
- On tattooed areas: permanent make-up, or cosmetic tattoos, of whatever colour. In this case, use the stop delimitation plate.
- On persons undergoing photo-sensitising treatment: depending upon your medical opinion, these patients may not be accepted for treatment with **E**>**E**LJQ.
- On persons with a previous history of cutaneous pathology.
- On diabetics, hemophiliac, epileptics, persons suffering of tardive cutaneous porphyria.
- On persons wearing a pacemaker or cardiac defibrillator.
- On animals.

I TREATMENT PROCEDURES

- Unperfumed micellar cleansing water is used to remove any cosmetic residues (make-up) from the skin.
- Zone concerned:
- Flashing of the cheekbone and left temporal area according the drawing on your right.
- Repeat the same procedure under the right side.
- After flash treatment, the application of cosmetic products is possible.
- The specific **E**▶**E**LI**2** protocol consists of 3 sessions as follows:
- Day 0
- Day 15
- Day 45
- (Day 75 optional)





I MEDICAL CLAIM

E►**E**∪**P**, designed and manufactured by E-Swin, is a device of health regulated of class IIb, with CE marking delivered by CE 0197 organization.

E►**E**∪**2** can be used to treat the condition of meibomian blepharitis (dry-eye syndrome).



GLOS SARY

BASE

Ventilation grid Power cord connection Visor to protect touchscreen Power cord connection Activation card slot Applicator holding

■ APPLICATOR



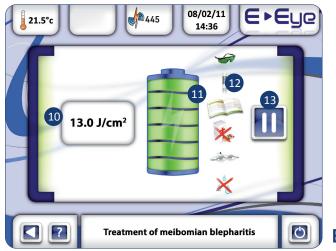


INFORMATION PROVIDED BY E-ELJO'S TOUCHSCREEN

I"HOME" MENU



I "TREATMENT OF MEIBOMIAN BLEPHARITIS" MENU



Parameters on the Treatment of meibomian blepharitis menu (ready to flash – green signal)

This **Home** menu (screen a) provides access to the following 3 menus:

1 TREATMENT OF MEIBOMIAN BLEPHARITIS MENU

This menu is used for the selection of parameters for meibomian blepharitis and the initiation of the flash treatment session.

CONSUMABLES MENU

This menu displays the remaining credit balance of flashes on the activation card.

3 CONFIGURATION MENU

This menu allows the setting of various parameters for the device.

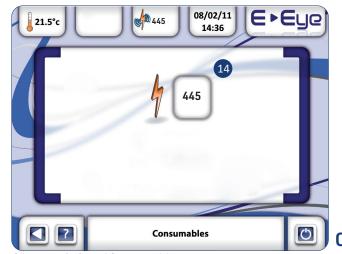
Other information will be displayed continuously and automatically:

- System temperature (applicator).
- 5 Number of flashes remaining.
- 6 Date and time.
- Return to previous menu icon. This icon allows the modification of any selection which has been entered previously.
- User assistance menu. This provides access to instructions for use.
- Device start-up/shutdown icon.

Screen **B** summarizes the parameters which have been selected progressively on the successive screens in the **Treatment of meibomian blepharitis** menu.

- Flux delivered (in joules per cm²).
- 10 Power level indicator: level of light energy required.
- Review of all mandatory precautions to be observed before any use of the device.
- ^{¹¹} Pause icon for the flash treatment session: pressing this icon will place E→Ey@ in "pause" mode. In this mode, no flash can be emitted from the applicator. To exit this mode, press the same icon again.

I"CONSUMABLES" MENU



Characteristics of Consumables menu

I "CONFIGURATION" MENU



Characteristics of Configuration menu

The **Consumables** menu (screen **C**) displays the outstanding number of flashes available on the activation card and its associated Optic cartridge.

The machine operates using an activation card which is specific to each optic cartridge. A specific and unique activation card is supplied with each new optic cartridge.

The remaining number of flashes is indicated by the icon **9**, represented here as:

The **Configuration** menu (screen **D**) allows various settings to be entered on the sub-menus indicated; this operation corresponds to the following software options:

- PIN code.
- Language.
- Maintenance.
- ¹⁸ Volume and brightness.





■ BEFORE EACH APPLICATION

- Check the mains lead (to ensure that the latter is not trapped or compressed, and that no wires are exposed).
- Check the cable connecting the base unit to the applicator (for the absence of visible deterioration).
- Check the external (photo 1) and internal (photo 2) optical components of E-ELIC.

INSPECTION OF EXTERNAL OPTICAL COMPONENTS

Check that the glass end of the applicator (optical guide) is free of surface defects. If this is not the case, the mobile head must be replaced. This component can be ordered by visiting **www.esw-vision.com/contact** and choosing the applicable contact for your country.

INSPECTION OF INTERNAL OPTICAL COMPONENTS

Each time before use and before connecting your **E-E**ye to supply, you must check the integrity of the internal optical components: the tube, the Filter (photo 2) (the flat component of red-coloured glass) and the optical guide.





■ REMOVAL OF THE MOBILE HEAD FOR THE CLEANING OF EXTERNAL AND INTERNAL OPTICAL COMPONENTS.

- Hold the applicator with the ventilation slots facing you. Insert the extractor between the mobile head and the fixed lateral shell of the applicator (photo 3).
- Push the extractor into the mobile head to its full length (photo 4).
- Apply pressure simultaneously to the 2 retaining lugs of the mobile head, and remove the mobile head (photo 5).
- Remove the extractor and place the applicator carefully on a flat surface (photo 6).
- Hold the mobile head, and the filter will now be visible (photo 7). Apply the clean spray to a lint-free cloth (photo 8), and clean the filter using the cloth thus prepared (photo 9).
- Hold the mobile head, gently move the sidewalls outwards (photo 10), carefully remove the filter cartridge (photo 11) and place it on a flat surface (photo 12).
- Repeat the same cleaning operation for the internal optical lens.

The filter (the flat component of red-coloured glass) must be intact and free of cracks, and must show a flat and regular surface. It must be clean and free of dust. To improve the efficiency of E-Eye, it is recommended that the clean spray supplied with E-Eye should be used to clean the filter before each use of the device. Any filter which is damaged as a result of incorrect maintenance will not be covered by the guarantee (see instructions for the use of the spray clean above).























TREATMENT OF MEIBOMIAN BLEPHARITIS USING E-ELIC

STAGE 1

PREPARING THE PATIENT

- Patient has to be settled in an examination and treatment chair lying or sitting.
- The skin must be clean, dry and free of any cosmetic products.
- Check that no cream, moisturizing lotion, oil or any other substance has been applied to the skin beforehand.

I STAGE 2

USING THE ACTIVATION CARD

- Locate the activation card for your optic cartridge.
- Insert this card into the slot provided for this purpose, located on the rear of **E**▶**E**௶②, in the base. The location of this slot is easily identifiable by its surrounding sticker.
- Leave this card in place throughout the session.
- At the end of the session remove the activation card, taking care to avoid damage, and replace it in its holder.
- Follow the procedure for turning off the device.



WHAT YOU NEED TO KNOW:

Each activation card carries the same serial number as the optic cartridge which it accompanies. Accordingly, each activation card will only work with one optic cartridge, and must not be used with any other cartridge.

ISTAGE 3

START-UP AND SETTING OF PARAMETERS FOR **E-E**ye

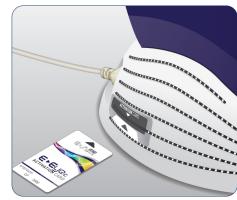
proximity of a source of heat or electromagnetic radiation.

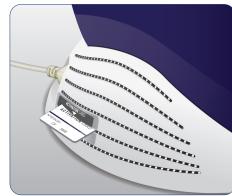
- Upon the initial start-up of **E**•**E**ye, "activation codes" (5 characters, followed by a further 5 characters) may be requested. Once entered, these codes will not be requested a second time.
- Connect **E**•**E**LIQ using the mains lead.
- The internal test procedure of **E**▶**E**∪**2** will commence, and will last for a few seconds. Upon the completion of this phase, screen **E** will be displayed automatically.

IMPORTANT: The activation card for the optic cartridge must not be damaged, bent or cut. Any damaged card will not be cove-

red by the E-SWIN guarantee. As a result, any such card will not be replaced and its associated optic cartridge will be unusable.

It will then be necessary to purchase a new optic cartridge, with its activation card. The activation card must not be stored in the







The software version of the device is displayed at the bottom left of the screen and, below this, the name of the device and its version number.

• A personalized 4-digit PIN code may also be entered (see chapter on software options in the present manual).

STAGE 4

SETTING PARAMETERS FOR **E** • Eye DURING THE TREATMENT SESSION

• Select the menu «Treatment of meibomian blepharitis» (screen F)

IMPORTANT: The "Treatment of meibomian blepharitis" menu can only be accessed if your flash credit balance is not zero.

• Select the power level (screen G)

"Selection of energy level" will be displayed at the bottom of the touch screen. This screen permits the setting of the required power Level (screen $\bf G$). The arrows are used to increase or decrease the power of the flash delivered, which will then be displayed to the left of the power gauge, in joules per centimetre squared ($\rm J/cm^2$). The power level available for selection ranges from 9 to 13 joules/cm².

Unlocking the security features (screen H)

- Your patient is wearing their eye mask, as a compulsory requirement, throughout the session.
- You are wearing the mask goggles supplied, for visual comfort during the treatment session.
- You have applied qel to the entire zone to be treated.
- You are not using **E►E**U© under certain physiological or medical circumstances (on pregnant women, on persons taking photo-sensitizing medication, etc.).
- You have familiarized yourself with the user manual before proceeding with the session (specifically the hazard warnings and precautions for use).
- You have ensured that it is not possible for water to be sprayed onto the **E-E**UQ.

Once all precautions have been validated, click on the validation icon on the right.

NOTE: E▶**E**∪**2** will not deliver any flash until you have unlocked all the security features by clicking on each of the security icon.

21.5°c 08/02/11 14:36 E > Eye Treatment of meibomian blepharitis Consumables Configuration Home





NOTE:

- After 7 seconds of inactivity, E>ELJ@ screen will switch over to standby mode. Flashing is still possible. Touch the screen to reactivate.
- After around fifteen minutes of inactivity, 🕒 🕒 will switch over to pause mode. Press the "play" icon 🤨 to reactivate.

TREATMENT OF MEIBOMIAN

BLEPHARITIS USING E-ELJQ

Validating the parameters selected (screen I).

This screen allows the options entered by the user to be reviewed; these options are validated by clicking on the «tick» icon.

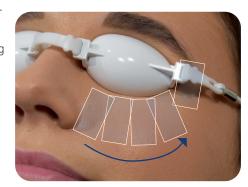
At any time, a parameter can be modified by clicking on that parameter, or by returning to the previous menu, using the arrow at the bottom left.

STAGE 5

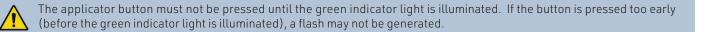
FLASH TREATMENT

- The QUIQ mask should be correctly adjusted on the eyes of your patient, and must be worn throughout the treatment session.
- Any beauty spots should be covered using the patches.
- Apply the Gel in a generous layer (minimum 1cm thick) on the cheekbone and the temporal areas, making sure that the QQL does not get under the QLQ mask.
- Locate your mask goggles and put them on. If there are other persons close to you during the operation of E-Eye, they may wear mask glasses for their comfort.
- If necessary, use the Stop plate to mask a substancial area which is not to receive flash treatment (tattos).
- Position the end of the optical guide on the gel.
- The optical guide must be in full contact with the gel, but not with the skin.
- Trigger a flash by pressing the button on the front of the applicator.
- Release the button and generate a further flash, after moving the optical guide under one eye, starting from the inner canthus of the eye, up to the temporal area.
- drawing on your right.





• Repeat the same operation until 5 flashes have been applied under each eye, as per the



NOTE: The gol, the self-adhesive patches, the guide plate stop, the mask goggles and the ouge mask protective shells used must be those supplied with your E-ELJQ. The use of any other product may result in the risk of skin burns, and will invalidate the guarantee of your device.

STAGE 6

END OF THE SESSION

- Press the on/off button of the device (icon 9)
- The fans will continue to run for a little under 5 minutes. Do not disconnect the mains lead while the fans are still running. Amongst other factors, this will ensure that the optical components are correctly cooled.
- Unlike the fans in the applicator, which will shut down after a certain time, the fans in the base unit will continue to run until the mains lead of the device is finally disconnected.
- Remove your mask glasses and remove the eye mask from your patient.
- Remove the gel and clean off any surplus using micellar cleansing water.
- Using the clean spray, clean the glass end of the applicator (optical guide). To do this, apply the clean spray in advance to a lint-free cloth, then clean the optical quide (photo 13).
- It is also possible to service the base in which the applicator is fitted (by rinsing with water, and ensuring that the base is dry before the applicator is refitted). To this end, the base, which has a smoked black finish, must be removed by holding the two fins on either side (photos 14 & 15).









IMPORTANT: No flash treatment must be administered unless the eye mask protective shells are in place. The gel will only be applied to the area which is to receive flash treatment once the QUQ mask shells are in place on the patient. Under no circumstances must the QQL penetrate below the QUQ mask shells.



REPLACING E-Eye optic CARTRIDGE

■ REPLACING THE OPTIC CARTRIDGE

- For any initial use, **E**•**E**y**2o**ptic cartridge be pre-installed inside the applicator.
- Each optic cartridge is associated with an activation card.
- A E>EYQ device may be used by several persons, each of whom will have their own Optic cartridge. associated with its own activation card.
- Replacement of the Optic cassette must be undertaken with the utmost care. Improper handling may result in permanent damage to the applicator, and to E-Eug in general. The guarantee does not cover improper handling. We therefore recommend that you pay very careful attention to the procedure to be observed.
- You may have occasion to replace the Optic cartridge before the originally scheduled number of flashes has been exhausted, e.g. in case of a change of user. where a tube has been broken, where the Optic cartridge is no longer working, etc.

STAGE 1

CHECKING THE NUMBER OF FLASHES AVAILABLE ON THE ACTIVATION CARD.

You can monitor your consumption of flashes in real time (see icon of the number of flashes remaining), or through the «Consumables» menu.

When the flash credit balance reaches zero, the main menu «Treatment of meibomian ble-pharitis» will immediately become inactive, and will be greyed-out (screen J).



The activation card and its **E-EUP Optic** cartridge must be replaced when the number of flashes reaches zero.

I STAGE 2

COOLING OF OPTICAL PARTS.

- During the procedure for the replacement of the **E**EUP Optic cartridge, before switching off and disconnecting your device, you must wait for the fans in the applicator to shut down (this may take several minutes). This procedure will allow the cooling of the internal optical components of the applicator.
- Unlike the fans in the applicator, which will shut down after a certain time, the fans in the base unit will continue to run until the mains lead of the device is finally disconnected.



STAGE 3

TURNING OFF THE DEVICE.

- Switch off the device.
- Disconnect the mains lead of the device.

STAGE 4

SEPARATION OF THE MOBILE HEAD OF THE APPLICATOR USING THE extractor AND EXTRACTION OF **E-E**ye optic CARTRIDGE IN PLACE.





- Apply pressure simultaneously to the 2 retaining lugs of the mobile head and remove the mobile head (photo 18).
- Remove the extractor and place the mobile head carefully on a flat surface (photo 19).
- Identify the guide notches of the cartridge (photo **20**).
- Carefully extract the cartridge and remove it completely (photo 21).













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REPLACING E-Eye optic CARTRIDGE

STAGE 5

INSERTION OF A NEW **E-E**yeoptic CARTRIDGE.

• Check the direction of insertion of the new cartridge:
For orientation purposes, one side of the cartridge is marked with a red disc. This side must be aligned with the side of the applicator which carries the same red disc.

In brief, the two red discs must be matched up (photo 22).

NOTE: Cartridges are not symmetrical, so they must be inserted in the right sense, and certainly not in the other.

- After inserting the cartridge to the stop, you must check that it is correctly positioned: it must be parallel to the end of the fixed part of the applicator (photo 23). If this is not the case, the cartridge has been incorrectly inserted. You should remove the cartridge and check that:
- The discs are correctly matched up (photo 22).
- The electrodes have not been twisted (photo **24**). If you have twisted the electrodes, you must not insert your cartridge into the applicator, or you may cause serious damage to your device. The damaged cartridge should be returned to us, and you should order a new cartridge.







• Check that the cartridge is correctly engaged.

PRECAUTIONS: throughout the procedure for the replacement of the cartridge, the following should not be touched under any circumstances:

- The tube or its reflector (photo 25),
- The electrodes of the tube (photo 26).

If you have inadvertently touched the tube or its reflector, we would strongly advise you to return the cartridge to us for replacement. Return carriage costs and the cost of dispatching a new cartridge will not be assumed by E-Swin SAS.



■STAGE 6

CLEANING THE EXTERNAL AND INTERNAL OPTICAL COMPONENTS.

- Using the Clean spray (photo 27), clean the glass end of the applicator (optical guide). To do this, apply the Clean spray beforehand to a lint-free cloth, and clean the optical guide.
- Before repositioning the mobile part of the applicator, systematically clean the filter (in the head of the applicator) on both sides using the clean spray (photos 28). The filter is the flat element of red-coloured glass (see steps for the removal of internal optical parts).







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REPLACING E-Eye optic CARTRIDGE

STAGE 7

CLOSING THE APPLICATOR.

Align the moving part of the applicator with the fixed part. Reposition the mobile head so that the red disc on the fixed part coincides with the internal red disc on the mobile head (photo **29**, turquoise arrows), and re-attach the moving part by pressing gently on the retaining lugs of the mobile head (photo **29**, pink arrows).



STAGE 8

INSERT A NEW ACTIVATION CARD

Remove the old activation card and insert the new card supplied with the Optic cartridge in the slot provided for this purpose (photo I).

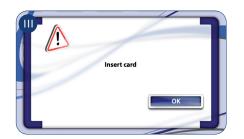
Each activation card carries the same serial number as the <code>optic</code> cartridge which it accompanies. Accordingly, each activation card will only work with one <code>optic</code> cartridge, and must not be used with any other cartridge.

If your flash credit balance is exhausted while the device is in use, the warning screen (shown in photo II) will appear.

If the activation card is not present or is damaged, the warning screen (shown in photo III) will appear.







When you switch on **E**▶**E**LJ**2** and the home page opens, 3 menus will be available:

1) "Treatment of meibomian blepharitis" menu.

See section on "TREATMENT OF MEIBOMIAN BLEPHARITIS USING E>ELIQ".

2) "Consumables" menu.

This menu shows the number of flashes remaining on the activation card and its optic cartridge, once the flash credit is exhausted, user only needs to replace the activation card and its associated optic cartridge.

3) "Configuration" menu.

This menu will allow you to access the following 4 sub-menus:

PIN CODE (screen K)

This code may be changed to a customized number. The default PIN code is "0000". If you do not change this code, you will not be requested to enter the PIN upon the start-up of the device. However, if you change the default PIN code, you will be required to enter your PIN whenever **E E L I Q** is restarted.

To change the PIN code:

- Go to the "Configuration" menu.
- Select the "PIN code" sub-menu.

Using the digital keypad:

- Enter the current PIN code, and validate using the "V" key.
- Enter the new PIN code and validate using the "V" key.
- A message indicating that the codes are valid will appear. Click on "OK".
- The "Configuration" menu will be displayed.

will be invoiced accordingly.

It is possible to return to the "Configuration" menu at any time by clicking on icon ${f v}$

IMPORTANT: We would strongly advise you to make a note of your PIN code. If you have entered a PIN code which you cannot

remember, it will be necessary to return your E-Eye to us before it can be used again. Only our technical service is qualified to

execute the requisite operations for the unlocking of your E-ELJC. This service is available with the device out of guarantee, and

The "C" key can be used to correct the figure in each box.





SELECT LANGUAGE (screen L)

Click on the flag which corresponds to the required language.

The "Language change confirmed" message will be displayed; click on "OK" to confirm the change. The "Choice of language" sub-menu will be displayed once more.

The return icon can be used to return to the "Configuration" menu.

SETTING OF PARAMETERS (VOLUME AND BRIGHTNESS) (screen M)

It is possible to adjust:

- The volume, using the 2 arrows associated with the loudspeaker icon.
- The brightness of the touch screen, using the 2 arrows associated with the light bulb

The return icon ocan be used to return to the "Configuration" menu.

MAINTENANCE

This access is exclusively reserved for the after-sales service.



08/02/11 14:36

Sound and light setting

O

NOTE:

- After 7 seconds of inactivity, E-ELJQ screen will switch over to standby mode. Flashing is still possible. Touch the screen to reactivate.
- After around fifteen minutes of inactivity, **E-E**UP will switch over to pause mode. Press the "play" icon ¹³ to reactivate.



PROHIBITED OPTIONS

I LIST OF PROHIBITED ACTIONS ON YOUR **E►E**UP IS SET OUT BELOW (non-exhaustive).

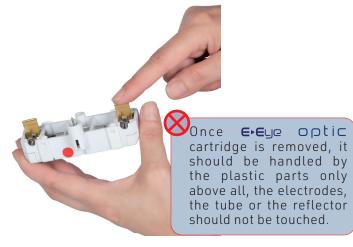
These actions are prohibited on the grounds that they might expose you to danger or entail the risk of irreparable damage to your device.



Do not cover the ventilation grid on the applicator, whether with your hand or by any other means.



Do not cover the base unit of **E**+**E**ye with a cloth, in order to avoid any obstruction of the ventilation grid at the top of the base unit.





Never attempt to dismantle the applicator, other than for the replacement of the cartridge.



Do not place the base unit of **E-E**UP on a non-rigid surface (such as a towel) which might result in the obstruction of the lower ventilation grid.



Do not touch the tube or the reflector with the fingers or with any other object.



Do not attempt to open your **E** • Ey@ device: any operations must be undertaken exclusively by persons who are authorized by the manufacturer for this purpose. A manual module of discharge of conductor may be activated after the opening of the device by duly authorized staff.

USE OF ACCESSORIES

The optic cartridge has a pre-programmed service life which quarantees the consistent quality of light emitted, from the first flash to the very last. The cartridge is supplied together with its activation card. The optic cartridge and its card must be replaced once the number of available flashes is expired.

optic

The qel must be stored at room temperature. It is used in a very thick layer (1 cm in thickness), and is applied progressively throughout the session, in order to avoid any drying of **acl** on the skin.. Once used on the skin and subject to flash exposure, the gel must not, under any circumstances, be recovered and used on a different zone. Flash exposure of the QQl is liable to result in the modification of its optical characteristics. At the end of the session, it is removed from the surface of the skin using a paper towel or a wet compress. The gel is removed from the optical components and the moving part of the applicator using a damp cloth, followed by the application of the clean spray.

Ingredients (quantity w/v%): carbomer (0,5-2), TriEtanol Amin (0,5-2), MonoPropylene Glycol (0,5-2), Dimethicone Copolyol

(0,1-1,0), Isopropyl Myristate (0,1-0,8), Diazolidinyl Urea (0,1-0,8), Glycerin (1,0-5,0), Aloe Vra barbadensis (0,2-1,0), Benzyl alcohol (et) Methylchloroisothiazoline (et) Methylisothiazolinone (0,05 - 0,15), Deionized water (Q.S 100). For external use only. Not to be used on broken, burned or infected skin. Keep out of reach of children.



Made in Europe

These glasses mask may be worn by all persons present during flashing treatments, for visual comfort during treatment sessions. After each use, they should be cleaned using the clean spray.



mask

ENTUIN

Made in France

Made in China

These protective shells QUQ mask must be worn by persons under treatment, and must be adjusted correctly. They protect the eyes of the patient. Disinfect the shells after each session.



euje mask

The toolextractor is used for the separation of the mobile head of your applicator, in order to allow the cleaning of optical components or the replacement of the optic cartridge.



extractor

Made in China

The spray clean is used to clean and maintain:

- The optical parts of the mobile head of the applicator:
 - External optical parts: spray directly and wipe with a dry cotton cloth.
 - Internal optical parts: Never spray directly on the internal optical parts. Take a dry cotton cloth and spray on the cloth, and then clean the filter (flat red part made of glass) with this dampened cloth. Finish cleaning with a dry part of the cloth.
- The device's touchscreen: Never spray directly on the touchscreen. Take a dry cotton cloth and spray on the cloth, and then wipe the screen with this dampened cloth. Finish cleaning with a dry part of the cloth.

The spray clean must only be used once

the device is unplugged and the optical parts are cold. If you intervene after using the **E**▶**E**以**Q**,

you must wait for the fan of the device to come to a complete stop before unplugging the base. This enables, among other things, the optical parts to cool down properly.

clean

These self-adhesive patches are used to mask small areas (such as beauty spots) which are not to be exposed to flash treatment. The patches must be positioned before the gel is applied. It will then be possible to administer flash treatment to the entire zone, regardless of the presence of beauty spots. patches are removed at the end of the session.



Made in France

The **stop** plate is constructed of a flash-resistant material. It is used to mask an area where flash treatment is not to be applied (for example, tattoos). The glass end of the applicator (optical guide) may also be positioned to overlap the stop plate and the skin.



stop

patches

Made in France

The filter set a fundamental component for the safety of flashes generated. It may be replaced if required. The cleaning of this component is essential.



filter

1.18 fl.oz. 35 ml

Made in France

Made in France

All these products can be found on our

website at www.esw-vision.com

MAINTE NANCE

Before undertaking any maintenance, ensure that your **E**•**E**UP is disconnected from supply. If operations are to be undertaken after using **E**•**E**UP, you must wait until the fan in the applicator has completely shut down before disconnecting the base unit from supply. This will also ensure that the optical components are correctly cooled.

NOTE: Unlike the fans in the applicator, which will shut down after a certain time, the fans in the base unit will continue to run until the device is finally disconnected from supply.

BASE

PLASTIC COMPONENTS

Do not clean the interior of the dedicated slot for the activation card. All plastic components of the device must be cleaned using a clean cloth which has been moistened in water (with no additional products).

TOUCHSCREEN

The screen must be cleaned using a clean cloth, impregnated with the clean spray (never apply the clean spray directly to the touch screen).

MAINS LEAD

Check that the lead is in perfect condition (not trapped or compressed, with no wires exposed). Clean the lead using a cloth which has been moistened in water (with no additional products).

IAPPLICATOR

MOBILE HEAD

Cleaning the internal optical components of the mobile head using the clean spray before and after each use will ensure the maintenance of the effective operation of your device. Never apply the clean spray directly to the internal components of the applicator.

APPLICATOR BODY

All plastic components of the applicator must be cleaned using a clean cloth which has been moistened in water (with no additional products).

■APPLICATOR CABLE

This cable must be kept clean at all times, and must be free of any visible deterioration. Any excessive bending or compression of the cable must be avoided. In case of any doubt regarding the condition of this cable, it is absolutely essential that you should discontinue the operation of your device.

I VENTILATION SLOTS IN THE BASE UNIT AND APPLICATOR

The applicator and the base unit are ventilated. Grilles are incorporated into both the applicator and the base unit, at the bottom and on the rear at the top. You must ensure that all grilles are clean, and free of any potential obstructions.

IMPORTANT: Ensure that no liquid enters the ventilation grilles.

ISTORAGE

- Your device should be stored in a room with a maximum ambient temperature of 25°C, free of any excessive humidity and not exposed to vibrations.
- If the device sustains an impact, the integrity of the optical components should be checked.
- In case of any visible damage to the optical components: the filter (the flat component of red-coloured glass), the optical guide, the tube, etc., operation of the device should be discontinued immediately.

REMINDER:

Storage temperature : - 5°C to + 65°C. Usage temperature : + 5°C to + 25°C. To use and to store keeping a relative humidity under 93%.

ASSISTANCE

■ E-SWIN TECHNICAL SERVICE

When in doubt about the use of your device, please contact our technical service by filling out the contact form on **www.esw-vision.com/contact**.

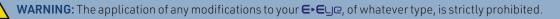


• WARNINGS

If one of the warning message below appears: you can follow the instructions in the column "What to do?" or contact our After Sales service.

Screen Display	Meaning	What to do?
SECU 01	No flash detected. The device does not detect the cartridge.	Insert the new optic cartridge by carefully following the handling instructions.
SECU 02	No cartridge detected. The device doesn't work.	Insert the optic cartridge by carefully following the handling instructions.
SECU 06	Temporary blocking.	Wait for the procedure that cools of the optical parts of the applicator to end.
SECU 03 SECU 04 SECU 05 SECU 07 SECU 09	Your device is blocked.	Contact our technical department, by filling out the contact form on www.esw-vision.com/contact.
SECU 12	Your device is blocked.	Contact our technical department, by filling out the contact form on www.esw-vision.com/contact.
SECU 14	Loss of connection with the activation card.	Check that the activation card is present and is running smoothly. Just insert it in the slot provided for this purpose.







MARKING

TECHNICAL CHARACTERISTICS

IMARQUAGE

REF : E>EUC	Reference to the treatment of meibomian blepharitis (dry-eye syndrome) using E-E UQ device.
SN	Unique serial number of your E≻E ௶௨.
E-SWIN Rue des Côtes d'Orval ZA de la Prévôté 78550 Houdan - FRANCE	Year of manufacture of your device and address of the manufacturer.
C € ₀₁₉₇	Medical device conforming to requirements of the European Directive 93/42/CEE, certified by an independent body.
IP2X	Device protected against solid foreign body of 12,5 mm in diameter or more (IP rating).
Ţ	Functional grounding terminal.
^	Logo corresponding to a degree of protection against electric shock for parts that are applied onto the patient (Part to be applied - Type BF).
	Electromedical device of Class II rating.
	Device must be used indoors.
*	Keep the device dry.
类	Keep away from light and heat.
$\widehat{\mathbf{i}}$	User manual.
	It is compulsory to refer to the instructions in the user manual.
100 - 240 V~ 50-60 Hz 540 VA	Operating conditions - supply voltage (alternating current), frequency of the mains voltage, power.
A	Warning, dangerous voltage device.
<u>↑</u> <u>↑</u> <u>↓</u> <u>∑</u>	Global safety mark for electronical devices.
*	Optical radiation aperture
*	Respect upper and lower temperature limits indicated beside this logo.
\square	Do not use this product after the deadline specified beside this logo (gel).
LOT	The batch number of the product is indicated beside this logo (gel).
IEC 60601-2-57:2011 Risk Level: Group 3 WARNING: The light emitted may result in eye injury. Do not look at the light source. Maximum fluence: 13 J/cm² Pulse duration: 170 ms Wavelenght range: 580 - 1625 nm	Warning label according to IEC60601-2-57:2011

SPECIFICATIONS

Technology	IRPL® (Intense Regulated Pulsed Light).
Wavelength	> 580 nm
Charging time / energy source	Continous operation
Dimensions (L x W x H)	Max 345 x 320 x 440 mm
Weight	Max 11,5kg.
Shipping box dimensions (L x W x H)	Max 740 x 460 x 610 mm
Shipping weight	Max 17,5kg
Noise level	Max 55 dBA
Operating voltage	100 - 240 VAC
Maximum power consumption	540 VA
Frequency	50/60 Hz
Temperature	Operating: +5 to +25°C Storage: -5 to +65°C
Relative working humidity (non-condensing)	30 - 93 %
Atmospheric pressure	70-106 kPa

■ RECYCLING AND PROCESSING



Instructions for the processing of end-of-life products: the WEEE Directive (Waste Electrical and Electronic Equipment) 2020/96/EC has been implemented to ensure that products are recycled by the application of optimum techniques for processing, exploitation and recycling, thereby contributing to the protection of the environment and human health.

Your product has been designed and manufactured using high-quality products, which are suitable for recycling and re-use.

E-Swin SAS is affiliated to an eco-organization, which undertakes the collection and processing of end-of-life products.

I GUIDANCE AND MANUFACTURER'S DECLARATION

RADIO FREQUENCY EMISSIONS

The **E**▶**E**∪**2** is equipped with a radio-frency transmitter at 13.56 MHz in an ASK modulation, and at a power lower than 42 dB(µA/m)à 10m.

ELECTROMAGNETIC EMISSIONS

The device is intended for use in the electromagnetic environment specified below. The user should assure that it is used in such an environment used in such an environment.

Emissions Test	Compliance	Electromagnetic Environment - Guidance
RF emissions CISPR 11	Group 1	The device uses RF energy only for its internal function. Therefore, its radiated emissions are very low and are not likely to cause interference in nearby electronic equipment.
RF emissions - CISPR 11	Class B	
Harmonic emissions - IEC 61000-3-2	Class A	The device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low voltage power supply network that supplies
Voltage fluctuations / Flicker emissions - IEC 61000-3-3	Passed	buildings uses for domestic purpose.

TO AVOID ELECTROMAGNETIC SUSCEPTIBILITY ISSUES ON **E-E**GRAND ITS SURROUNDED DEVICES, USER SHALL FOLLOW THE FOLLOWING RULES FOR INSTALLATION

WARNING: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

WARNING: Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

WARNING: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of E-EyP, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

ELECTROMAGNETIC IMMUNITY

The device is intended for use in the electromagnetic environment specified below. The user of the device should assure that it is used in such an environment.

Immunity test	IEC60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance
Electrostatic Discharge (ESD) IEC 61000-4-2	±8 kV contact ±15 kV air	± 8KV contact ± 15kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient / burst IEC 61000-4-4	± 2 kV 100 kHz	± 2 kV 100 kHz	Mains power quality should be that of a typical public low voltage power supply network.
Surge IEC 61000-4-5	± 1 kV differential mode ± 2 kV common mode	± 1 kV differential mode ± 2 kV common mode	Mains power quality should be that of a typical public low voltage power supply network.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0 % UT for 0.5 cycle at 45,90,135,180,225,270,315° 0% Ut for 1 cycle at 0° 70% for 25/30 cycle at 0° 0% for 250/300 cycle, any angle	0 % UT for 0.5 cycle at 0,45,90,135,180,225,270,315° 0% Ut for 1 cycle at 0° 70% for 25/30 cycle at 0° 0% for 250/300 cycle, any angle	Mains power quality should be that of a typical public low voltage power supply network. If the user of the device requires continued operation during power mains interruption, it is recommended that device be powered from an uninterruptible power supply or a battery.
Power frequency (50/60Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristics of a typical location of a typical location connected to public low voltage power supply network.
Conducted RF IEC 61000-4-6	3Vrms 150 kHz to 80MHz 6 V for ISM band 3V/m	3Vrms 150 kHz to 80MHz 6 V in ISM bands between 150 kHz to 80MHz	
Radiated RF IEC 61000-4-3	80 MHz to 2.7 GHz	3V/m 80 MHz to 2.7 GHz	

NOTE 1: UT is the ac mains voltage prior to application of the test level.

NOTE 2: At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 3: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption an reflection from structures, objects and peoples.

Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the device is used exceed the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the device.

b Over the frequency range 150 kHz to 80 MHz, field strength should be less than 3 V/m.

IMMUNITY TO PROXIMITY FIELDS FROM RF WIRELESS COMMUNICATIONS EQUIPMENT

The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or user of the device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communication equipment (transmitters) and the device, as recommended below, according to the maximum output power of the communications equipment.

Immunity test: IEC 61000-4-3

Test frequency (MHz)	Band ^{a)} (MHz)	Service ^{a)}	Modulation ^{b)}	Maximum power (W)	Distance (m)	IMMUNITY TEST LEVEL (V/m)
385	380 -390	TETRA 400	Pulse modulation b) 18 Hz	1,8	0,3	27
450	430 - 470	GMRS 460, FRS 460	FM ^{c)} ± 5 kHz deviation 1 kHz sine	2	0,3	28
710		1750 140 47	5			
745	704 - 787	LTE Band 13, 17	Pulse modulation b) 217 Hz	0,2	0,3	9
780			217112			
810		GSM 800/900; TETRA 800;	Pulse			
870	800 - 960	iDEN 820; CDMA 850;	modulation ^{b)}	2	0,3	28
930		LTE Band 5	18 Hz			
1 720		GSM 1800; CDMA 1900;	Pulse			
1 845	1 700 - 1990	GSM 1900; DECT; LTE Band 1, 3,	modulation ^{b)}	2	0,3	28
1 990		4, 25; UMTS	217 Hz			
2 450	2 400 - 2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation ^{b)} 217 Hz	2	0,3	28
5 240	5 1 0 0 5 0 0 0		D			
5 500	5 100 - 5 800	WLAN 802 .11 a/n	/n Pulse modulation b) 217 Hz	0,2	0,3	9
5 785			21/ 11/			
		IMMALINITY TECT LEVEL, the distance		:	- ME EQUIDM	ENT - ME CYCTEM

NOTE: If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3.

LIGHT EMISSION

The **E**•**E**LIP is classified under risk group 3 related to "thermic retinal" danger.

The inhomogeneity of lighting on the applied surface is below to

The ocular risk is negligible from a distance, between the eye and the surface of emission, of 7,40 meters.

Output energy on the treatment area versus user's selection:

Energy setting	Fluence (J/cm²)
1	9,0
2	9,8
3	10,6
4	11,4
5	12,2
6	13,0

STANDARDS

CERTIFICATIONS

The company E-Swin SAS, the exclusive manufacturer of **E**►**E**LJ² device, is certified to ISO standards 13485.

CONFORMITY

E-SWIN hereby declares that **E-E**_J@ meets the essential reguirements of the 93/42/CEE Directive, Annex II, Article 3, and holds the CE mark under the responsibility of TUV Rheinland. It is consistent with the standard: EN 60601.

PRECAUTIONS FOR USE

Never bring the base unit or the applicator into contact with water. Do not open the base unit or the applicator, as you may risk exposure to high voltages. Never use cartridges and accessories other than those designated and sold by E-Swin SAS for use with **E**>**E**LIQ.

ENVIRONMENTAL PROTECTION

You must abide by local regulations for the disposal of packaging and consumables. Insofar as possible, recycling should be encouraged.

a) For some services, only the uplink frequencies are included.

b) The carrier shall be modulated using a 50 % duty cycle square wave signal.

c) As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.

Your device is guaranteed for professional use.

The term of this guarantee is associated with legislation in force in each country.

Any error in connection, any incorrect handling, any use of the device other than for the treatment of meibomian blepharitis (dry-eye syndrome) and, in general, any use of the device which fails to observe the conditions described in this manual will invalidate the guarantee.

The company E-Swin SAS will not accept liability for any accident arising from failure to observe the instructions contained in this manual, or from differences in the information provided by the labelling or the touch screen of **E-E**UR.

The manufacturer's guarantee for parts and labour will only be valid if the device is returned in all the items of its original packaging (boxes, packing blocks, etc.).

All the packaging in which your **E-E**ye was supplied should therefore be carefully stored.





For more information visit: www.esw-vision.com

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