MANUFACTURER:
Univet s.r.l.
via Giovanni Prati, 87
25086 Rezzato (BS) Italy
www.univet-optic.com

ISTRUZIONI D'USO - SISTEMA D'ILLUMINAZIONE EOSHP
USER INSTRUCTION - EOSHP ILLUMINATION SYSTEM
NOTICE D'INSTRUCTION - SYSTEME D'ECLAIRAGE EOSHP
DE USER INSTRUCTION - EOSHP ILLUMINATION SYSTEM
MANUAL DEL SISTEMA DE ILUMINACION LED EOSHP

We congratulate you on the purchase of a Univet illumination system - Made in Italy. To ensure safe use please observe the following notes.

DESCRIPTION OF COMPONENTS
1. Control unit
2. Bluetooth remote control
3. Led light with 180 cm cable
4. Wireless battery charger + USB charger
5. Universal magnetic support
6. UV Filter
7. Screw driver
8. Spiral cable conduit
9. User informative note
10. Connection kit for sockets

Symbols reported on the products and/or on the case:

Il prodotto non può essere smaltito nei rifiuti urbani indifferenziati.
The product cannot be disposed of as undifferentiated waste.
Le produit ne doit pas être jeté.
Das Produkt darf nicht über den normalen Hausmüll entsorgt werden
El producto no debe eliminarse como residuo ordinario

CE
Conformità alla direttiva 93/42/CEE come emendata da direttiva 2007/47/CE
In compliance with 93/42/EEC as amended by 2007/47/EC
En accord avec les directives CEE 93/42
Gemäß Directive CEE 93/42
Cumplimiento con la Directiva CEE 93/42

S/N
Numero di serie
Serial number
Numéro de série
Seriennummer
Número de serie

Attenzione! Leggere attentamente le istruzioni prima dell'uso.
Important! Read the instructions carefully before use.
Attention! Lire attentivement les instructions avant utilisation.
Warnung! Vor Gebrauch die Gebrauchsanleitung sorgfältig durchlesen.
¡Precaución! Lea las instrucciones detenidamente antes de usar

ICID
Conformità alla ceretificazione IC (Industry Canada)
In accordance with IC (Industry Canada) certification
En accord avec la certification IC (Industry Canada)
Konformität mit der IC-Zertifizierung (Industry Canada)
Conforme a la certificación IC (Industry Canada)

FCC ID
Conformità ai regolamenti FCC (Federal Communications Commission)
In accordance with FCC standards (Federal Communications Commission)
En accord avec les règlements FCC (Federal Communications Commission)
Konformität mit den FCC-Regulierungen (Federal Communications Commission)
Conforme al reglamento FCC (Federal Communications Commission)

High-power LED lighting system powered by rechargeable Li-ion batteries, with intensity adjuster and Bluetooth remote control

Technical specifications:

- Power supply: 1 Li-ion rechargeable battery

- Autonomy at max power: >8 hours

- Recharge time: approx. 7.5 hours

- Colour temperature: 5,700K

- Max luminosity: 45000 lx

- Battery charger power supply unit: 100-230V~, 50-60 Hz

- Environmental conditions: USE Temperature +10 °C to +30 °C Relative humidity 30% to 75% TRANSPORT AND STORAGE Temperature -10° to +50°Relative humidity 10% to 80%

- Conformity: CEE 93/42, EN60601-1 3rd edition, EN60601-1-2:2007,EN62471 1st edition, directive 2014/53/EU, EN62479:2010, EN301 489-1 v1.9.2, EN301 489-17 v2.2.1, EN300 328 v1.9.1, CFR title 47 part 15, CFR title 47 part 15.247, ICES-003 issue 5 2012, RSS-247.

WARNING

Attention, failure to follow these safety instructions could lead to fire, electric shock, injury or damage to the LED lighting system or to other property. Carefully read the following warnings before using the LED lighting system. Do not use the device if it has been damaged. Do not tamper with or disassemble any component of the system. Do not open the controller and do not attempt any repair operation. Do not attempt to replace the battery. Do not expose the lighting system to conditions that may ignite the battery. Avoid contact with sources of heat or naked flames. Do not use in spaces with flammable anesthetic mixtures.

When the LED lighting system is not used store it in its container. Do not immerse any component in liquid substances. Prevent liquid substances from entering the slots or the connection port. Do not look directly at the light emitted by the LED nor direct the light to the eyes of the patient. Never place magnifying glasses or other optical systems in front of the light. Use exclusively the components provided: do not combine the components of the system with other lighting systems or electronic equipment. Use only the charger power unit supplied. Field of application: the device is intended for use during medical examinations and therapy. For internal use only.

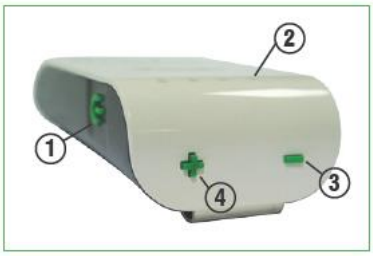
DESCRIPTION OF DEVICE

The LED system (Light Emitting Diode) Univet EOS HP is a portable lighting device that can be worn by the operator to illuminate the visual field during the execution of work. Thanks to its structure, the LED EOS HP can be easily hooked up to all models of magnifying devices manufactured by Univet, thus providing an integrated vision system.

The Li-ion battery with high capacity supplied with the device allows full autonomy to the user, ensuring constant illumination for at least 8 hours.

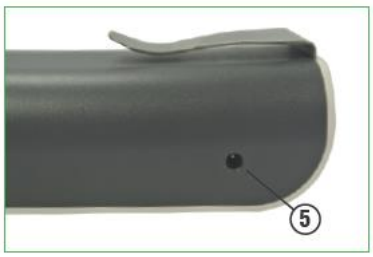
It is recommended to perform a full charge cycle before using the device.

UNITA' DI CONTROLLO - Vista frontale
CONTROL UNIT - Front view
UNITÉ DE COMMANDE – Vue de face
STEUEREINHEIT – Ansicht Vorderseite
UNIDAD DE CONTROL – Vista frontal



UNITA' DI CONTROLLO - Vista superiore
CONTROL UNIT - Top view
UNITÉ DE COMMANDE – Vue de dessus
STEUEREINHEIT – Ansicht Oberseite
UNIDAD DE CONTROL – Vista superior

UNITA' DI CONTROLLO - Vista posteriore
CONTROL UNIT - Rear view
UNITÉ DE COMMANDE – Vue de derrière
STEUEREINHEIT – Ansicht Hinterseite
UNIDAD DE CONTROL – Vista posterior



UNITA' DI CONTROLLO - Vista laterale
CONTROL UNIT - Side view
UNITÉ DE COMMANDE – Vue de côté
STEUEREINHEIT – Ansicht seitlich
UNIDAD DE CONTROL – Vista lateral

TELECOMANDO BLEUTOOTH - Vista frontale
RF REMOTE CONTROLLER - Front view
TÉLÉCOMMANDE BLUETOOTH - Vue de face
BEDIENUNGSGERÄT - Ansicht Oberseite
CONTROL REMOTO BLUETOOTH – Vista frontal

PAD DI RICARICA WIRELESS
WIRELESS CHARGING PAD
BASE DE CHARGEMENT SANS FIL
WIRELESS LADESTATION
CARGADOR INALÁMBRICO

DESCRIZIONE COMPONENTI

UNITA' DI CONTROLLO
1 - Pulsante ON/OFF
2 - Barra indicatrice LED multicolore
3 - Pulsante MENO
4 - Pulsante PIU'
5 - Connessione faretto
6 - Indicatore di carica LED
7 - Clip per cintura

TELECOMANDO BLUETOOTH
8 - Pulsante di comando
9 - Indicatore di comando LED

COMPONENTS DESCRIPTION

CONTROL UNIT
1 - ON/OFF button
2 - Multicolor LED bar indicator
3 - MINUS button
4 - PLUS button
5 - Headlamp connector
6 - Charge status indicator LED
7 - Belt clip

RF REMOTE CONTROLLER
8 - Command button
9 - Command indicator LED

DESCRIPTION DES COMPOSANTS

UNITÉ DE COMMANDE
1 – Bouton ON/OFF
2 – Barre indicatrice LED multi-couleur
3 – Bouton MOINS
4 – Bouton PLUS
5 – Connection projecteur
6 – Indicateur de charge LED
7 – Clip pour ceinture

TÉLÉCOMMANDE BLUETOOTH
8 – Touche de commande
9 – Voyant de commande LED

FITTING THE LED ON THE MAGNIFICATION SYSTEM

The lighting device EOS can be conveniently mounted on any model of magnifying system Univet thanks to the magnetic coupling provided. UNIVERSAL

CLIP Open the clip and apply it on the frame at the nasal bridge; the terminals of the clip must adhere to both surfaces of the lenses. FLIP-UP UNIVET Use the support provided with the model by screwing the same using the special screws to seal on the center pin placed between the monocles. EVO Use the support provided with the model by following the installation instructions given in the leaflet of the magnifying system.

BLUETOOTH REMOTE CONTROLLER

Each remote controller shall be paired with a single control unit and connected to it before the use.

PAIRING FUNCTION

The pairing function shall be performed only when a new control unit or Bluetooth remote controller is used. Devices are already paired by Univet prior to shipment.

1. Ensure the control unit in not in charge mode by removing it from wireless charging pad

2. Push and keep pushed for 8 seconds the command button (8)

3. During pairing function the command indicator LED (9) blinks in a red color very fast. It starts slowly blinking in a red color as soon as the RF remote controller is correctly paired with the control unit.

CONNECT FUNCTION

This function enables the comunication betweeen RF remote controller and LED control unit and shall be performed after every control unit's charge or when the RF remote controller exits from the covered area of 10 meters far from the control unit. The need of a new connection is showed by no light of the command indicator LED (9).

1. Ensure the control unit in not in charge mode by removing it from wireless charging pad

2. Quickly push and release the command button (8)

3. Command indicator LED (9) quickly blinks during connection, and it slowly blinks in a red color to confirm the Bluetooth remote controller is corretly connected to the control unit.

USE OF REMOTE CONTROL

1. Quickly push and release command button (8) to turn ON the device

2. Push for 1sec and release command button (8) to turn OFF the device

3. Quickly push and release command button (8) to adjust brightness intensity among minimum, medium and maximum levels

BATTERY CHARGING

1. Connect the wireless charging pad to the charger by using the USB cable.

2. Insert the charger into a wall socket 220V~50 Hz / 110V~60 Hz.

3. Place the control unit with the front surface in contact with the wireless charging pad. Please verify the control unit is placed in the middle of the wireless charging pad surface

4. A single sound confirms the control unit is properly placed on the wireless charging pad. If the sound is not emitted, remove the control unit from wireless pad and try to place it in the proper position.

5. A serie of 4 sounds informs the control unit is not properly placed on the wireless charging pad or the battery is already charged

6. The following colors of charge status indicator LED (6) will indicate the charge status: RED: Charge mode. The battery is charging - GREEN: Charge completed. The battery is ready for use. 10min after the full charge is reached, the GREEN light turns off.

USING THE DEVICE

1. Connect the cable of the headlamp to the control unit using the dedicated connector (5)

2. Turn on the device by pressing the power button (1). The multicolor LED bar (2) shows for two seconds the brightness setting in use

3. The multicolor LED bar (2) indicates the charge status: when the residual battery charge drops below 10% the indicator LED will become orange, while when the residual charge drops below 5% the light will start flashing

4. Adjust the luminous intensity by acting on the adjustment buttons (3) and (4) on top of the controller: a short pression causes the passage through five discrete steps. By keeping pushed buttons (3) or (4) a fine adjustment of light intensity is allowed: release the button as soon as the desired brightness is reached

5. The multicolor LED bar (2) present on the front part of the controller will indicate in green color the level of luminous intensity set during brightness adjustment

6. To turn off the device push the button (1). This device records the last brightness setting and keeps it stored for the following use

UV FILTER

The filter UV525 enables shielding the ultraviolet radiation emitted by the LED that could interfere with some work processes. The support is mounted on the lighting head by a slight pressure until it remains in position. The movement of the ring nut allows the filter to be removed from the light beam without having to unclip the support from the lighting head.

Should the filter support be excessively slack after being mounted on the spotlight, operate the clamping screw gently.

CLEANING INSTRUCTIONS

Disconnect the cable from the lighting head before cleaning. Do not proceed with the cleaning while the controller is connected to the charger.

Use a microfibre cloth to clean the lenses. The control unit can be cleaned with a soft cloth soaked in a gentle disinfectant solution. Do not soak or spray any component with disinfectants and other liquids. The LED lighting system cannot be sterilised in an autoclave. Make sure that the lighting system is completely dry before use.

RADIO FREQUENCY DEVICE CERTIFICATION

FCC - FEDERAL COMMUNICATIONS COMMISSION

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

ISED - INNOVATION, SCIENCE AND ECONOMIC DEVELOPMENT CANADA

This device complies with Industry Canada's licence -exempt RSSs.

Operation is subject to the following two conditions:

(1) This device may not cause interference;

(2) This device must accept any interference, including interference that may cause undesired operation of the device

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

(1) L'appareil ne doit pas produire de brouillage;

(2) L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement