



**UFLUO-HAND**

**Wireless UV LED detection lamp**

**Lightness adapted to manual work**

**More than 5 hours continuous working time**

**Adapted to most of UV fluorescence and NDT applications.**



|                    |                         |  |
|--------------------|-------------------------|--|
| <b>Electronics</b> | Power supply            | Rechargeable Li-ion battery – 18V DC   |
|                    | Running time            | More than 5 hours with a fully charged battery   |
|                    | Illumination mode       | Continuous with an ON/OFF button   |
| <b>Optics</b>      | Wavelength              | UVC: 275 nm - UVB: 325 nm - UVA: 365, 385, 395, 405 nm - VIS: 440 nm                                     |
| <b>Mechanics</b>   | Width x Length          | 107mm x 55mm (Head) & 79mm x 110mm (Base with Battery)   |
|                    | Height                  | 240mm  |
|                    | Weight                  | 830 g with battery<br>460g without battery   |
|                    | Material                | Device body: Plastic<br>Head: Aluminum alloy   |
|                    | IP rating               | IP40   |
| <b>Environment</b> | Operation               | Temperature: 10°C to 35°C – Humidity: 20% to 80% humidity (with no condensation) – Altitude: Up to 2000m |
|                    | Regulations & marking   | CE - UKCA  |
|                    | Environmental standards | RoHS III Directives - REACH Regulation   |



Product reference

**UFLUO-HAND standard version available into a complete KIT for manual use:**

**KIT - UFLUO - HAND - XXX**

WAVELENGTH (nm)

- 275 (UVC)
- 325 (UVB)
- 365
- 385 (UVA)
- 395
- 405
- 440 (BLUE)



**UFLUO-HAND PUV version available into a complete KIT according to ASTM E3022-18:**

**KIT - UFLUO - HAND - 365 - PUV**

Wood filter for 365nm



**UFLUO-HAND PBL version available into a complete KIT according to CEN/TR 16638:**

**KIT - UFLUO - HAND - 440 - PBL**

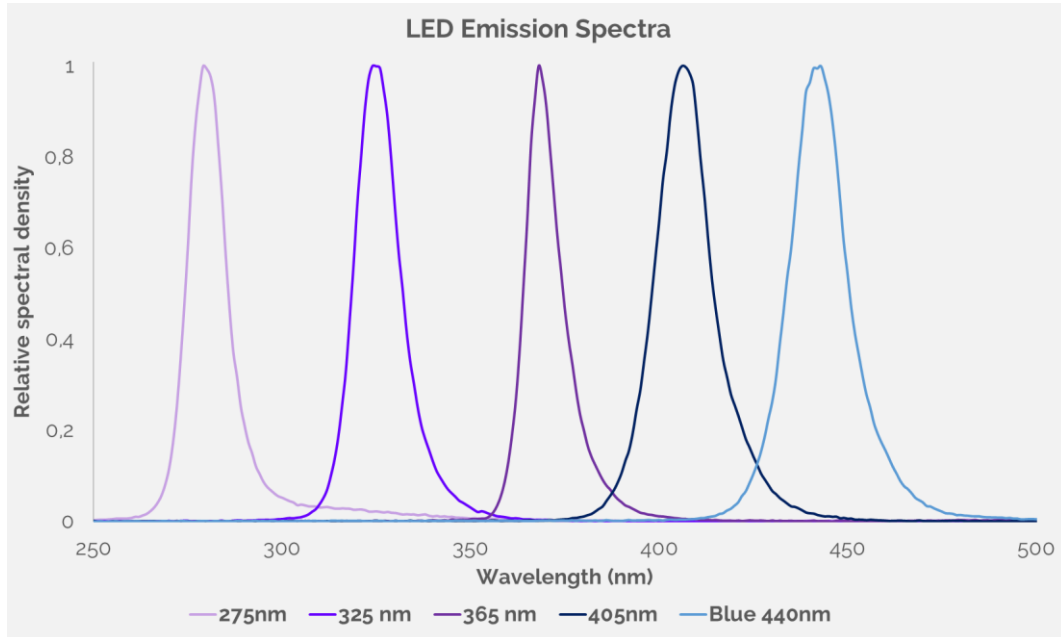
Dichroic filter for 440nm





Optical considerations

LED spectra



 For other wavelengths (UVC / UVB / UVA / VISIBLE / IR), feel free to ask us!

PUV & PBL versions

For specific UV and blue detection processes, UWAVE offers 2 versions including specific filters:

- UFLUO-HAND-365-PUV is equipped with 365nm UV LED and a Wood filter window to be compliant to ASTM E3022-18 standard for dye penetrant and magnetic particle inspections.
- UFLUO-HAND-440-PBL is equipped with 440nm blue LED and a dichroic filter window to be compliant to CEN/TR 16638 standard for non-destructive tests and dye penetrant inspections.



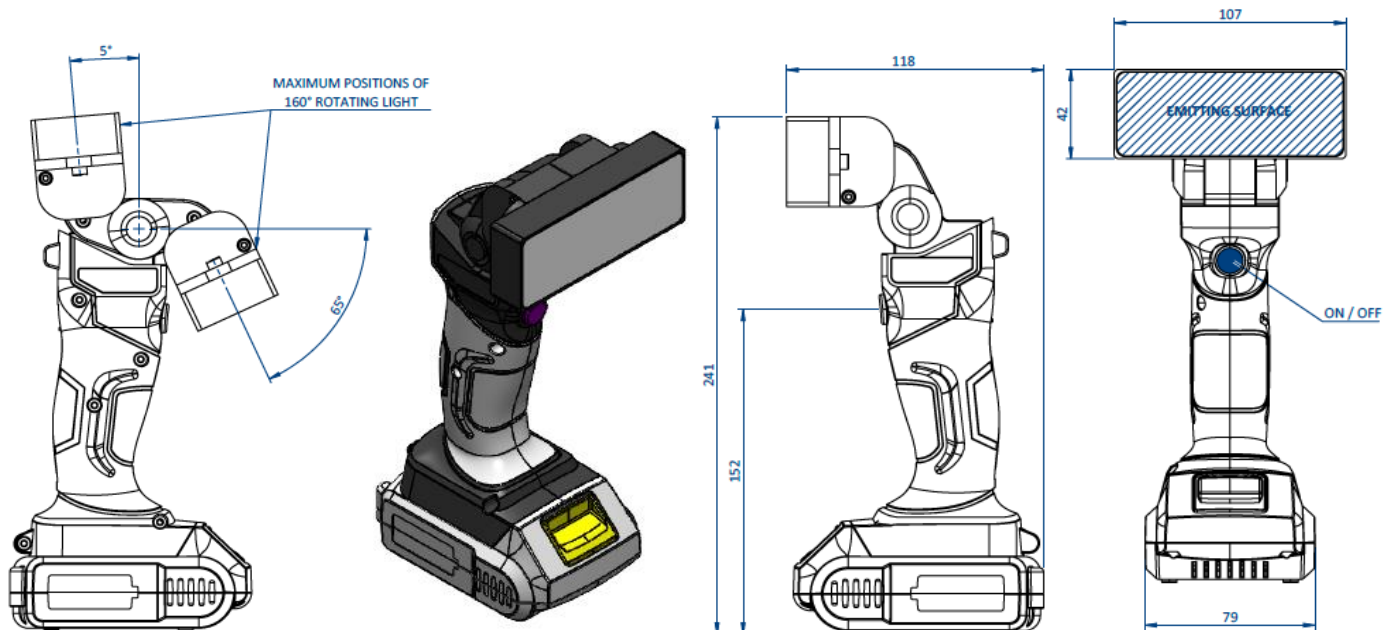


General Information

UFLUO-HAND-XXX



Mechanical considerations (mm)





### KIT

In order to allow facilitated manual use of the UFLUO-HAND-XXX, UWAVE has developed a complete kit which contains the following components:



### 18V, 1.5Ah Li-ion Rechargeable Battery



- The kit contains one 18V rechargeable battery to power the UV LED lighting.
- Each 1.5Ah battery offers a 5-hour continuous running time.
  - Full charge of batteries may take up to 45 minutes with the charger.
  - Compliant to CE, RoHS, and REACH standards



**Battery level is given at the back of the battery with an LED indicator.**  
With 1 level remaining, battery is low and must be charged.

### Batteries Charger



- The kit contains a charger to charge the battery.
- The charger is powered with mains cable.
  - Full charge of batteries may take up to 45 minutes with the charger.
  - LED indicator to see the level of charge (RED charging, GREEN fully charged)
  - Compliant to CE, RoHS, and REACH standards

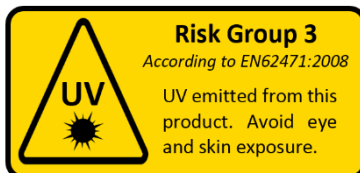


**Please fully charge the batteries before first use.**











**UV security**

UWAVE products come under the standard DIN EN 62471:2008 which classified sources of optical radiation into risk groups subject to their potential photo biological hazard. Due to the emission of high UV irradiation, our products belong to Risk Group 3 (hazardous even for momentary exposure) therefore special safety measures, detailed in the following, must be observed.



Thanks to its experience and knowledge about UV risks, UWAVE offers to its customer a wide range of UV protections & services:

|                        |   |  |   |
|------------------------|---|--|---|
| <b>Eyes protection</b> | UGLASS-04: To protect eyes from direct rays.<br> | UGLASS-03: To cover all the face.<br>                                  |   |
|                        | <b>Body protection</b>  | UGLOVE-01: to protect hands.<br>  | UV-SHIELD: To protect all workers around.<br>                                  |
| <b>UV measurement</b>  | EIT LEDCURE: UV values recording.<br>          | GIGAHERTZ OPTIK: Direct UV value reading.<br>                         |   |
|                        | <b>UWAVE expertise</b>  | EXPOSURE LIMIT VALUE<br><br>According to European Directive 2006/25/EC. | PERFORMANCES QUALIFICATION<br><br>Monitoring of all performances of your device. |