



# SPIRIT

Handheld Inspection Lamp



[bw-nde.com](http://bw-nde.com)

The Spirit series of UV lamps are compact and lightweight, with explosion proof certification (CE, RoHS, Ex).

They offer a very narrow spectrum, with a peak wavelength of 365nm, featuring four powerful UV-A (365 nm) LEDs, a convenient white light LED, providing a broad and even beam light source.

Spirit can provide a large coverage area of up to 160 mm, with a minimum UV-A intensity of 1200  $\mu\text{W}/\text{cm}^2$ . All lamps are equipped with black light filters.

Models in the Spirit range meets Rolls Royce RRES 90061 and Airbus AITM6 - 1001 and are compliant with ASTM E2297, E3022, E1444, E1417 and ISO 3059.

**ST-30:** 2 UV LEDs and 1 white light LED. Each UV LED is covered with a black UVA filter. Battery and mains versions available.

The ST-30 **ST-30BEX:** is the certified explosion proof battery version of the Spirit, meeting EU Directives.

**Spirit Kit package includes:** Spirit lamp, Carry Case, Battery Charger, re-chargeable batteries & screwdriver (for battery version), industrial power adapter for mains version.



Pole mount option



Hook option



Tripod mount option

|                                                                |                                                                                   |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------|
| LED                                                            | 2 UV LEDs, 1 white light LED                                                      |
| UV-A Irradiation<br>>1000 $\mu\text{W}/\text{cm}^2$ (at 380mm) | 4,000 uw/cm2                                                                      |
|                                                                | >1000uw/cm2 :~ $\Phi$ 160mm                                                       |
| Visible Light                                                  | < 5Lux (0.5 ft-candle)                                                            |
| Peak Wavelength                                                | 365nm $\pm$ 5nm                                                                   |
| Peak Bandwidth                                                 | FWHM:9nm $\pm$ 1nm                                                                |
| Weight                                                         | Mains operated version: 550g (1.2 lbs)<br>Battery operated version: 650g (1.5lbs) |
| Dimensions                                                     | 82mm x 112mm x 200mm                                                              |
| Input Voltage                                                  | Mains:110-240V 50/60Hz                                                            |
| Battery                                                        | Running time: 3 hours                                                             |
| Input power                                                    | 12W                                                                               |
| UV-A radiation                                                 | Total:2W                                                                          |
| <b>Ambient Conditions</b>                                      |                                                                                   |
| Operating Temperature                                          | 5-45°C (41-113°F)                                                                 |
| Storage Temperature                                            | 5-45°C (41-113°F)                                                                 |
| Humidity during operation                                      | Maximum 90% relative humidity (Non-condensing)                                    |
| Air humidity, storage                                          | Maximum 90% relative humidity (Non-condensing)                                    |
| <b>Emissions</b>                                               |                                                                                   |
| UV Radiation                                                   | No UV-B or UV-C radiation generated                                               |
| Visible Light                                                  | Visible light emission less than 5 Lux (1 ft-candle)                              |

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