

*SPOT EVEN THE FINEST CRACK*

## Spirit series Portable NDT lamp

**UV LED/Pure UV-A /50000hrs/Broad beam/365-370nm**

CrackCheck Spirit series standard version NDT inspection lamps are portable uv lamps based on LED technology and offers you a very narrow spectra with a peak wavelength of 365nm. The standard version Spirit-45 uv lamp features 4 powerful UV-A (365 nm) LEDs plus a convenient white light LED. The intensity of Spirit led uv lamp is 4500  $\mu$ W/cm<sup>2</sup>. It is more compact and weights less than many comparable products on the market. The lamps are equipped with or without black light filters. The power source of Spirit is available as Battery or Mains.



### UTECHNICAL SPECIFICATIONS

Item:	Spirit-45 LED UV lamp
Model:	ST-45
Light Source:	4 UV LEDs, a White Light LED.
Intensity:	4000 $\mu$ W/cm <sup>2</sup> at 380mm
Wavelength:	365-370nm
Visible light:	< 0.5foot-candles(5 lux)
Coverage area:	200*200mm
Expected lifespan:	50,000 hours
Battery version:	Power supply by 2pieces of 18650 Lithium battery
Mains version:	AC 110V-240V/ 50HZ /single phase
Working voltage:	DC 12V
Power:	UV-A LEDs: 12W, White Light LED:3W
Start-up time:	Instant-on operation with immediate full power

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## FEATURES

- 100% solid state circuit ensures working properly in strong magnetic field
- Switch function between UV light and White light
- Safe and pure UV-A content with no UV-B and UV-C, almost no visible light.
- The intensity of Spirit-45 is  $4500 \mu W/cm^2$  at 380mm
- Extremely large coverage area of up to 200mm, with a minimum UV-A intensity of  $1,200 \mu W/cm^2$
- Each LED is with long expected lifespan of 50,000 hours.
- The start button provide instant power and the light is operated with a multifunctional switch-UV/OFF/White light-on the pistol handle for ease of use.
- Equipped with a current regulator to keep the intensity stable when the battery fades.
- Wavelength specifications for FPI and MPI. IP43 approved for water spray and external bodies.

CrackCheck-Spirit for Aerospace :Spirit-45A

Spirit-45A version is designed for aerospace. This type of lamp can be equipped with blacklight filter and have no white light LED. And it is compliant with ASTM UV-A intensity ,and this version is adjusted to never exceed  $4500 \mu w/cm^2$ .

## UNIQUE TECHNICAL SPECIFICATIONS

Item: Spirit-45A UV Lamp  
 Model: ST-45A  
 Light Source: 4 UV LEDs  
 Intensity:  $4000 \mu W/cm^2$  at 380mm  
 Visible light: 3 lux  
 Power: 12W

### REPLACEMENT PARTS & ACCESSORIES

- ST1. Standard, 3m AC power cord
- ST2. Extra-long, 5m AC power cord
- ST3. Black light filter
- ST4. Plastic carrying case
- ST5. UV block goggles



#### Battery version lamp kit:

Spirit series led uv lamp  
 One Charger  
 Four 18650 rechargeable batteries



#### Mains version lamp kit:

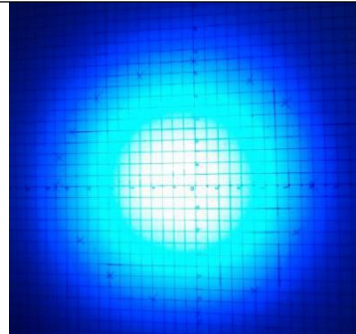
Spirit series led uv lamp  
 AC power cord  
 UV block goggles  
 portable carrying case

*ISO9001 compliant,  
 wavelength specifications for  
 FPI and MPI  
 Available with certificate of  
 compliance for ASTM E 1417,  
 ASTM E3002, ANSI/NCSL  
 Z540-1-1994 ,RRES 90061.*

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## Coverage area

( $> 1200 \mu\text{W}/\text{cm}^2$  at 380mm) :  $\phi 20\text{cm}$



## APPLICATION EXAMPLES

First choice for fluorescent inspection, biological polymerization, leaking test, criminal investigation and many other field.

