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1·Brief Introduction of Instrument

VM Series pocket lamp type LED Ultraviolet Lamp is professional portable UV Lamp researched and developed by our company. A complete range of specifications of UV Lamp can meet different requirements. The series possesses ultra-high brightness, long working hours and stable quality etc., and it conforms the National Pressure-bearing Equipment NDT Standard (NB/T 47013-2015).

2·Range of Application

2.1Main Application

- Fluorescence Penetrant Testing
- Fluorescence Magnetic Particle Flaw Detection
- Fluorescence Leak Detection

2.2 Other Application

- Oil Stain, Blot Testing
- Special Gas, Oil and Gas Pipeline Testing
- Fluorescence Reflection Detection for Special Materials
- Criminal Investigation and Legal Medical Expert Survey
- Paper Money Authentication, Jewel Appreciation
- Agriculture, Foodstuff, Medical Treatment and other relevant industries.

3·Description of Product

3.1Characteristic and Performance

- Yushi VM Series adopts high-power 365nm Ultraviolet band LED Lamp Beads produced by Japanese NICHIA company, 100% free from UV-B and UV-C element, spectrum is pure.
- The lifetime of Lamp Beads reach up to 20000 hours, efficient, energy conservation and environmental protection.
- Quick Start, can reach the maximum luminance as soon as switch on.
- Ultra-low power consumption, high efficiency. Stand-by time is far more than likewise products.
- Cold light source makes cold operation, outputs the luminance lasted and steadily.
- Optical filter is black vitaglass.
- Made of high strength aviation aluminum alloy shell and with anodize surface.
- Enhance heat dissipation design, can be used continuous for long time.
- Configure dedicated high speed charger for each lamp.
- Anti-magnetic field interference function makes it possible to work in the strong magnetic field.
- Dust prevention and waterproof standards reach IEC 60529- IP66 grade, suit to different environments, more safety and reliable.

3.2 Technical Parameters

PARAMETER \ Model		VM10	VM30	VM50	VM70
NOMINAL STEADY-STATE UV-A INTENSITY at 38cm (15 in)		10000 μW/cm^2	13000 μW/cm^2	L: 8000 μW/cm^2 H: 20000 μW/cm^2	20000 μW/cm^2
UV-A COVERAGE AREA at 38cm (15 in) at minimum 1,200 μW/cm^2		Φ 63mm	Φ 55mm	Φ 55mm	Φ 105mm
VISIBLE LIGHT MEASUREMENT		2.91 lux	3.4 lux	3.14 lux	5.8 lux
BLACK LIGHT FILTER		•	•	•	•
LIGHT SOURCE		365nm UV-A LED			
NUMBER of LEDs		1	1	1	3
BATTERY MODEL	ICR 18650 li-ion battery	•			•
	ICR 26650 li-ion battery		•	•	
BATTERY CAPACITY		3.7V 2600mAh	3.7V 4800mAh	3.7V 4800mAh	3.7V 2600mAh
NUMBER of BATTERIES		1	1	2	4
RUN TIME (CONTINUOUS)		4 hours	5 hours	L: 18 hours H: 8 hours	5 hours
CHARGE TIME		5 hours	6 hours	7 hours	5 hours
DIMENSIONS	LAMP HEAD DIAMETER	28mm	40mm	62mm	60mm
	TRANSPARENT WINDOW DIAMETER	22mm	34mm	55mm	50mm
	LENGTH	128mm	144mm	240mm	143mm
WEIGHT (with Battery)		140g	240g	520g	610g

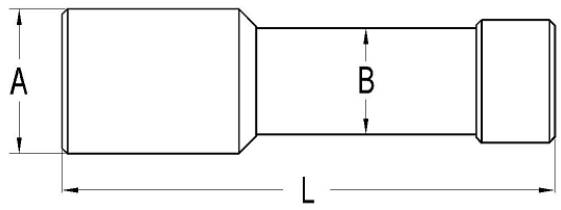

Diagram of Outline Dimension

3.3 Configuration List

	VM10	VM30	VM50	VM70
Main Device	1	1	1	1
Battery	1	1	2	4
Charger	1	1	1	1
Suit Case	1	1	1	1
Operating Manual	1	1	1	1
Certification	1	1	1	1
Warranty Card	1	1	1	1
Packing List	1	1	1	1

Optional Configuration

	VM10	VM30	VM50	VM70
Protective Glass	1	1	1	1
Triangle Holder				1

4·Matters need Attention

- Please pay attention to the positive and negative pole of the battery, positive toward to the lamp holder direction. Try to avoid battery over discharge.
- Keep away from child.
- Do not irradiate eyes and skin.
- Keep away from fire.
- Please store in low temperature, dry and ventilation.
- If long time no use, please take out the battery. It is suggested to charge and discharge every 3 months.
- Optimum charging environment: 18-30℃, humidity 25-62%.

Statement: To dismantle without authorization or man-made damage are outside the scope of warranty.

5·Related Data

The National Pressure-bearing Equipment NDT Standard (NB/T 47013-2015) requires Black Light Lamp / Ultraviolet Lamp as follows:

- Exposure intensity on the workpiece surface must be equal to or greater than 1000 uW/cm².
- The wavelength should be 315nm~400nm, and the peak value wavelength should be 365nm.
- Light source should meet the specification of GB/T5097.