



Product Catalog

Non-Destructive Testing

Non-Destructive Testing

LUYOR-3103 / 3104 / 3105 Handheld UV Lamp

LUYOR-3103 / 3104 / 3105 Series handheld portable LED UV lamp is designed specifically for fluorescent magnetic particle inspection and fluorescent leak detection. The lamp features state-of-the-art LED technology. With four high-energy UV LEDs (360-370nm), it produces 6,000 $\mu\text{w}/\text{cm}^2$ high intensity at 38cm and a wide coverage area up to 150mm. In addition, there is no harmful UVB or UVC. To improve portability and the ease of use, LUYOR-3101/3104 / 3105 uses 220V AC power supply instead of a heavy power box, making it compact and lightweight.

Product Features

- 365nm long wave UV light (3,650 angstroms)
- Aluminum alloy case facilitates heat dissipation.
- Instant-on operation.
- Cold light source: surface temperature will not exceed 70 Celsius degrees even after working for 24 hours.
- Low visible light emission: less than 18 lux (measured by HIOKI Lux Meter FT3424 at 38cm)



Technical Data

	LUYOR-3103/ LUYOR-3103D	LUYOR-3104/ LUYOR-3104D	LUYOR-3105/ LUYOR-3105D	LUYOR-3109P/ LUYOR-3109D
UV LED	3 UV LEDs	4 UV LEDs	5 UV LEDs	9 UV LEDs
White LED	One 3w white LED, Color 5700k	One 3w white LED, Color 5700k	/	/
Power Supply	LUYOR-3104/ LUYOR-3105/ LUYOR-3109: 100-260V AC LUYOR-3104D/ LUYOR-3105D/ LUYOR-3109D: 24V lithium battery			
Light Lifespan	≥ 20,000 hours			
UV Intensity (at 38cm)	4,500 $\mu\text{w}/\text{cm}^2$	6,000 $\mu\text{w}/\text{cm}^2$	7,000 $\mu\text{w}/\text{cm}^2$	20,000 $\mu\text{w}/\text{cm}^2$
White LED Intensity	≥ 3,000 lux	≥ 3,000 lux	/	/
Visible Light Measurement	≤ 18 lux			
Battery Working Time	Approx. 6 hours (LUYOR-3103D)	Approx. 6 hours (LUYOR-3104D)	Approx. 5 hours (LUYOR-3105D)	Approx. 3 hours (LUYOR-3109D)
Battery Charging Time	Approx. 6 hours (LUYOR-3103D)	Approx. 6 hours (LUYOR-3104D)	Approx. 6 hours (LUYOR-3105D)	Approx. 6 hours (LUYOR-3109D)

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LUYOR-3109P Handheld Fluorescent Inspection Lamp

LUYOR-3109P Handheld Fluorescent Inspection UV Lamp can be used in fluorescent magnetic particle inspection, leak detection, fluorescent detection, and surface inspection. LUYOR-3109P meets GB/T 15822, ASTM E2297 and ASTM-E3022 standards. Equipped with light-emitting diodes, LUYOR-3109P has homogenous illumination that produces 20,000 $\mu\text{w}/\text{cm}^2$ high intensity at 38cm. Additionally, there is no harmful UV-B, and white light emission is extremely low.

Product Features

- 9 high performance UV LEDs for wide area of coverage
- High intensity: 20,000 $\mu\text{w}/\text{cm}^2$ at 38cm
- Power: 100-240V AC
- 365nm long wave UV light
- Instant-on operation
- Low visible light emission: less than 18 lux



What's Included

- LUYOR-3109P lamp
- A pair of LUV-10 spectacles, a pair of LUV-30 spectacles
- Instruction manual, certificate, warranty card

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LUYOR-3190 Portable Fluorescent Inspection Flashlight

LUYOR-3190 is a portable, lightweight inspection flashlight, specifically designed for fluorescent leak detection, surface inspection and magnetic particle detection.

Product Features

- 4 high-performance LEDs
- Wavelength: 365nm
- High intensity: 5,300 $\mu\text{w}/\text{cm}^2$ at 38cm
- Powered by 2 batteries, work continuously for 4 hours in total



What's Included

LUYOR-3190, a pair of LUV-10 spectacles, instruction manual, certificate, warranty card

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LUYOR-3101H UV LED Headlamp

LUYOR-3101H UV LED Headlamp is a portable, versatile, energy efficient, hands-free light source that features ultra-high intensity UV light (8,000 $\mu\text{w}/\text{cm}^2$ at 38cm).

LUYOR-3101H is ideal for a variety of applications:

- Non-destructive testing: fluorescent leak detection, fluorescent magnetic particle inspection
- Contamination detection of electronic components, LCD panels
- Leak detection of hydraulic equipment, oil tanks and piping
- Degreasing cleaning inspection of tableware



Technical Data

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| • 3 high-intensity UV LEDs | • Current: 700mA |
| • Wavelength: 365nm | • Battery voltage: 4V |
| • Intensity: 8,000 $\mu\text{w}/\text{cm}^2$ at 38cm | • Power: 9W |
| • Coverage area: diameter 15cm at 38cm | • Battery lifespan: 500 charge and discharge cycles |
| • LED Lifespan: $\geq 50,000$ hours | • Charger: 220V, 50Hz |

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LUYOR-3101S Black Light Headlamp

LUYOR-3101S Black Light Headlamp is a high-intensity, palm-sized, easy-to-wear light source designed for hands-free operation. LUYOR-3101S reaches full power instantly. In addition, the power button is positioned at the back to prevent accidental startup. With a specially designed constant current circuit, LUYOR-3101S can keep light intensity constant even when the battery is low.

LUYOR-3101S is ideal for a variety of applications:

- Fluorescence detection
- Leak detection of refrigerants, engine oil, and so on.
- Fluorescence analysis of ore
- Criminal investigation of fingerprints and blood



Technical Data

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| • 1 high-intensity UV LED, 5W | • Power: two lithium batteries, 4400mAh |
| • Wavelength: 365nm | • Working hours: 3.5 hours |
| • Intensity: 10,000 $\mu\text{w}/\text{cm}^2$ at 38cm | • Dimension: 40 x 38mm |
| • Coverage area: diameter 50mm at 38cm | • Net weight: 200g |
| • LED Lifespan: 30,000 hours | |

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LUYOR-3115 Overhead UV LED NDT Lamp

LUYOR-3115 Overhead UV LED NDT Lamp is excellent for stationary use in fluorescent detection and fluorescent magnetic particle inspection. With a flexible arm, NDT professionals can easily adjust angle to meet specific inspection requirements. The fanless design allows cool running and minimum background noise. Equipped with 15 high-performance UV LEDs, LUYOR-3115 provides large area of coverage and high intensity.



Product Features

- Easily mountable for overhead application
- Flexible arm for mounting at specific angles
- Cool running without a fan
- High intensity: 9,500 $\mu\text{W}/\text{cm}^2$ at 38cm
- Risk class according to EM06 (DGZfP): 2
- IP65 rating: dust-proof and water resistant
- Power: 110-230V/ 50Hz

What's Included

- LUYOR-3115 lamp
- A pair of LUV-10 spectacles
- Instruction manual
- Certificate
- Warranty card

Technical Data

Model	UV LEDs	Illuminated Area	Panel Dimension	White Light Measurement	Wavelength	IP Rating
LUYOR-3103H	3	160x140mm	100x90mm	19.5 lux	365nm	IP67
LUYOR-3106	6	250x250mm	150x150mm	13.22 lux	365nm	IP67
LUYOR-3109	9	300x300mm	150x150mm	14.32 lux	365nm	IP67
LUYOR-3115	15	250x500mm	300x150mm	13.02 lux	365nm	IP67
LUYOR-3118	18	300x500mm	300x150mm	12.04 lux	365nm	IP67
LUYOR-3121	21	250x650mm	420x150mm	15.26 lux	365nm	IP67
LUYOR-3124	24	300x650mm	420x150mm	14.23 lux	365nm	IP67

To provide a better light source for customers

www.luyorgroup.com

E-mail: info@luyorgroup.com