UV-LED-Handlamp H-224

RRES 90061 Qualified | Extreme Large Irradiated Area

Revolutionary UV Features:

- Electronic UV-LED Monitoring to use LED-Sources as Discharging Bulb-based UV-Sources without Additional Checks and Records
- Adaption Time Signalization (1, 3 or 5 minutes pre-adjustable)
- Battery Monitoring with Pre-Warning and Security Switch-Off Before Output Drops
- Temperature Monitoring With Pre-Warning and Overheat Protection
- Temperature Regulated and Electronic Monitored Cooling System
- ECO-Mode for Maximum Life-Time and Power-Saving
- Auto Switch-Off When Not Used, Instant ON when Resuming Work, (Can be Deactivated and Pre-Adjusted)
- Qualified and Approved According to Rolls-Royce Engineering Specification RRES 90061
- Guaranteed Requalification Possibility for Upcoming ASTM and ISO Standards (at Least Until 2017)
- Conform to All Actual Major Standards(August 2015)

Revolutionary Whitelight Option:

- Stepless Soft White Light Dimming and Crossfade Features for Maximum Interpretation Capability Instead of Showing Different Picture AND Flash Blinding the Eyes
- UV/VIS Toggling and White Light Shiftable in Addition to UV
- Finely In-Use Adjustable White Light Output With Fallback And Configuration Options

Configuration Option:

- Focussed Spot With Hard Radiation Drop at the Edges
- Flood Lamp With Soft Radiation Drop Extremly Uniform Beam Pattern and Short Minimum Working Distance
- High Quality White Light Options
- All Worldwide Mains Plugs and Voltage Versions Available

Detailled Specification:

- Real Peak 365 ± 5 nm, also at maximum qualified ambient temperature
- Acoustic and Visual Indicators
- Qualified and Approved for Ambient Temperatures from 5° to 50°C (40° - 122° F)
- Exceptional Life-Time
- Robust Design for Reliable Operation Even Under Rough Industrial Conditions
- Engineered and Made in Germany by NDT-experts
- Integrated UV-Pass Filter
- Optional Mains Operation or Rechargeable Battery
- Qualification Report and Certificate of Compliance Stating All Relevant Lamp Individual Results

Technical Data

Lamp Type	UVE-H224		UVE-H224W	
Beam Pattern FL: Flood with soft radiation drop at the edges - FO: Focussed spot	FL	FO	FL	FO
Specification UV-A Radiation				
Number of UV-LEDs	8 Highpower UV-LEDs			
Peak-Wavelength	365 ± 5 nm (within the approved ambient temperature range)			
Approved ambient temperature	5 - 50° C (40 - 122° F)			
Full Width Half Maximum (FWHM) UV-Spectrum	maximal ± 10 nm of the peak-wavelength			
Integrated, automatic adaption time signalization	pre-selectable: 1, 3 or 5 minutes after switch-on of UV			
Advanced Electronic UV-LED Monitoring for maximum process reliability and usage of LED lamps without additionel checks and records	✓			
Automated shutdown when lamp is not in use (ECO-Mode)	after 3 minutes, immediate reconnection by movement, deactivatable			
Connection possibility for external foot paddels	✓			
Battery monitoring and security switch-off	integrated, with early-warning			
Electronic fan monitoring	✓			
Temperature-sensitive fan control	✓			
Standard conformance, approvals and qualifications (^= ready for upcoming standards)*	ASTM E1444, ASTM E1417, ASTM E2297, ASTM E0709, ASTM E165, ASME, EN ISO 3059, EN ISO 3452, EN ISO 9934, NADCAP^, Pratt & Whittney^			
Rolls-Royce RRES 90061 conform	✓	-	✓	-
UV-A intensity (µW/cm²) in 15 in. (38 cm) distance	> 2,600	> 9,000	> 2,600	> 9,000
Irradiated area in 15 in. (38 cm) distance (> 1,000 µW/cm²)	ø 36 - 38 cm	ø 19 - 22 cm	ø 36 - 38 cm	ø 19 - 22 cm
Irradiated area in 15 in. (38 cm) distance (> 100 µW/cm²)	ø 50 - 58 cm	ø 13 - 28 cm	ø 50 - 58 cm	ø 13 - 28 cm
Minimum working distance	7 cm	25 cm	7 cm	25 cm
Typical Lifetime T_{70} / T_{50}	> 15.000 h / > 18.000 h			
Stability of UV-intensity	> 85 %			
Amount of visible light	< 0,5 fc (< 5 Lux), not visible			
Risk Class acc. DGZfP EM6	2 (up to 9.000 µW/cm²); 3 (more than 9.000 µW/cm²)			
Specification high quality, integrated whitelight functions for daylight inspection (W versions)				
Illuminance in 15 in. (38 cm) distance	-		> 115 fc (> 1.250 lx)	
Pre-adjustable white light output	-		0.5 - 100 %, fine adjustable	
In-use illumincance adjustment	-		0.5 - 100 %, fine adjustable	
UV / VIS toggling	-		✓	
Shiftable white light (UV + VIS)	-		✓	
Automated stepless white light dimming in addition to UV	-		2 dimming speeds or white light switching selectable	
Automated stepless crossfading (UV / VIS)	-			
Color temperature TCP (Light color)	5.300 K - 6.000 K (similar to daylight)			
Color Rendering Index (CRI)	-		Ra > 80	
Technical Specification				
Power Supply	100 - 230V AC/DC-power supply and optional battery			
Status Indicators	1 separate multicolor LED for UV and VIS*, acoustic signal			
Power Consumption (only UV / with VIS)	35 W / 60 W			
Operating Voltage lamp unit	< 50 V DC (SELV)			
Electric Protection Class	III (Safety extra-low voltage, SELV)			
Weight*: (Lamp unit / complete with power supply)	1.65 lbs / 2.85 lbs			

* model/type specific | We reserve the right of error, improvement and technical modification without notice.
CSF2H-2-5104

Accesories

- Foot-Paddle for Handsfree Operation of the Whitelight Options
- Extra Robust Power Supply in Metal Casing, Made in Germany
- High Power Rechargebale Li-Ion Battery Pack
- UV-Pass Filter
- Advanced Power Supply
- Various Mounting Equipment and Stands
- UV Protection Glasses
- Robust Carrying Case

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H1 UV LED HANDLAMPS

advanced and professional tools for enhanced fluorescent inspection

GROUNDBREAKING INNOVATION

uncompromising better than bulb-based UV lamps

The Perfect UV-A LED Blacklight for Every Specific Application

REVOLUTIONARY INTERPRETATION

Automatic Stepless
White Light Dimming and
Crossfade Features

Uninterrupted, relaxed and enhanced observation of indications by viewing films of transition between the 3 possible illuminations:
UV only / UV and VIS together / VIS only
NO Flash Blinded Eyes, NO Loss of Sharpness, NO Unneeded Stress for the Eyes

ORIENTATION AND CLEAR VISION

REAL Floodlamps with Soft Radiation Drop and
NO Inhomogeneity Within the Beam
Even When Moving the Lamp

UV LED lamps WITHOUT any compromises, always BETTER than using bulb-based UV sources.
Clear and sharp display, even of tiny indications.
WITHOUT loss of inspection performance by using the full detection capability of the human eye for fast, secure, easy and tireless inspection
NO hotspots even in very short distances

INVESTMENT SECURITY

Guaranteed Requalification
Possibility for Upcoming Standards (until 2017)
Conform to All Actuall Major Standards

Using UV LED Technology by NOW without worries and NO waste of money! Paper requalification and necessary technical upgrades free of charge for upcoming ASTM, ISO and NADCAP requirements (at least until 2017)

MAXIMUM PROCESS SECURITY

MORE Secure Inspection due to
Electronic System Monitoring and
Adaption Time Signalization

Easier, better and more reliable inspection by additional integrated process support and security features

HIGH QUALITY

For NDT Professionals
Engineered and
Made in Germany

Completely designed, manufactured, assembled and qualified in Germany

1H1D16v

SECU-CHEK® GmbH
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Further Highlights of UVE Series

- Electronic UV-LED Monitoring to Use UV LED Sources At Least As Secure As Bulb-based UV Sources
- Programmable Adaption Time Signalization (1, 3 or 5 minutes)
- Individually Configurable by the User
- Exceptional Life-Time
- Optional Stepless Soft White Light Dimming and Crossfade Features for Maximum Interpretation Capability
- High-End White Light in Daylight Quality (5,700 K | CRI > 90)
- ECO-Mode for Maximum Life-Time and Power-Saving
- Battery Monitoring with Pre-Warning and Security Switch-Off Before Output drops

Additional Highlights of UVN Series

- Adaption Time Signalization
- In-Use Adjustable White Light. Shiftable in Addition to UV UV / VIS Toggling
- Qualified and Approved According to Aerospace Standards
- Qualification Report and Certificate of Compliance Stating All Relevant Lamp Individual Results
- Guaranteed Requalification Possibility for Upcoming Aerospace, ASTM and ISO Standards (at Least Until 2017, for Selected Models)
- Enhanced Ambient Temperature Range 40 - 122°F (5 to 50°C)
- Temperature Monitoring and Overheat Protection With Pre-Warning
- Integrated UV Pass Filter

Highlights of All Series

- Real Peak 365 ± 5 nm Always During Operation Within the Qualified Temperature Range
- Optional UV / White Light Toggling
- Wearless Touch Switches (Work Also When Wearing Gloves)
- Monitored Fan Cooling
- Battery Monitoring with Security Switch-Off Before Output Drops
- Acoustic and Visual Indicators
- Mains Supply by AC/DC Transformer and Mobile Battery Supply by Rechargeable NiMH or LiIon Battery Packs
- Easy and Tireless Long-Term Usage Based on Groundbreaking Ergonomic and Lightweight Design
- Conform to All Actual Major Standards (November 2015)
- High Stability of Intensity and Wavelength
- Exchangeable Rubber Bumper With Integrated Protective Sheave
- Integrated Holder for Standard Mount and Fixation Possibility
- Robust Design For Reliable Operation Even Under Rough Industrial Conditions
- Designed for NDT Applications by NDT-Experts for NDT-Professionals
- Safety Extra Low Voltage (SELV) at Hand Set
- Engineered, Manufactured, Assembled and Qualified in Germany

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Select the perfect UV LED lamp for your needs from 48 different models and many options:

3 Series

UVS — Basic Series for Standard Applications

UVN — Advanced Series for Applications with Enhanced Requirements

UVE — Professional Series with Advanced Monitoring Features for Maximum Process Security

Optional White Light Features

Automatic Stepless White Light Dimmung and Crossfade Features

UV / White Light Toggling and White Light Shiftable in Addition to UV

IN USE — In-Use Adjustable White Light Output, With Fallback Option

Beam Style

Focussed Spot With Hard Radiation Drop at the Edges

Flood Lamp With Soft Radiation Drop at the Edges and Extreme Homogeneity of the Beam

Number of UV LED Elements

3 to 6 UV-LEDs to Select Various Intensities (1,700 to 12,500 µW/cm²) and Irradiation Area Sizes

Power Supply

All Worldwide Mains Plugs and Voltages Versions Available

AC/DC — External Standard Transformer with Permanently Fixed Cables Made in Europe

Lilon — Extra Lightweight, High Power Rechargeable Li-Ion Battery Pack

Extra Robust Metal Cased Transformer Made in Germany

Aluminium Cased Transformer for Expanded Connections Made in Germany

NiMH — Rechargeable NiMH Battery Pack

Accessories

Foot-Paddle for Handsfree Operation of the White Light Options

Robust Carrying Case

MOUNT + HOLD — Various Mounting Equipments

UV Pass Filter

UV Protection Glasses

Qualified Retractile Coiled and Straight Extension Cords

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Detailled UV Specification:

- UV 365 — Real Peak 365 ± 5 nm
  Always During Operation
  Within the Qualified Temperature Range
- Battery Monitoring With
  Security Switch-Off
  Before Output Drops
- Robust Design for Reliable
  Operation Even Under
  Rough Industrial Conditions
- ASTM E1417 / ISO 3059
  ASTM E1444 / ISO 3452
  ASTM E2297 / ISO 9934
  ASTM E3022 / ASME CODE
  Conform to Actual Major Standards
  (November 2015)
- Groundbreaking Ergonomic and
  Lightweight Design for
  Easy and Tireless Long-Term Usage
- Monitored
  Fan Cooling
- Temperature Monitoring
  and Overheat Protection
- T50 12,5K / T70 10K
  10,000 Hours Typical Operation Time with
  At Least 70% of the Output at Delivery
  Under Real Conditions
- 40°C 5°C / 105°F 40°F
  Qualified and Approved for Ambient Temperature from
  5° to 40° C (40° - 105° F)
- Mains Supply by AC/DC Transformer and
  Mobile Battery Supply by
  Rechargeable NiMH or LiIon Battery Packs
- RGB
  Acoustic and
  Visual Indicators
- Standard Qualification Report and
  Certificate

High Quality White Light Option:

- UV / White Light Toggling
- Multi-Level Pre-Adjustable
  White Light Output
- 5.000 KELVIN / CRI >80
  High Quality Cool White Light
  (5,000 K | CRI > 80)
  Large Illumination Area

For detailed product and qualification information, contact or visit us at www.secu-chek.com/uvs-h1

UVN-Series (Advanced)

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Advanced UV Features:

- Qualified and Approved According to Rolls-Royce RRES 90061
- Adaption Time Signalization 1 Minute
- Ideal for NDT
- Qualified and Approved for Ambient Temperatures from 5° to 50° C (40° - 122° F)
- Temperature Monitoring and Overheat Protection With Pre-Warning
- Guaranteed Requalification Possibility for Upcoming Aerospace, ASTM and ISO Standards (at Least Until 2017, for Selected Models)
- Conform to All Actual Major Standards (November 2015)
- Integrated UV-Pass Filter
- Superior Life-Time
- Detailed Qualification Report and Certificate of Compliance Stating All Lamp Individual Results

Advanced White Light Option:

- White Light Shiftable in Addition to UV
- In-Use Adjustable White Light Output
- High Quality Cool White Light (5,000 K | CRI > 80) Large Illumination Area
- UV / White Light Toggling

Basic Specification:

- Real Peak 365 ± 5 nm Always During Operation within the Qualified Temperature Range
- Mains Supply by AC/DC Transformer and Mobile Battery Supply by Rechargeable NiMH or LiIon Battery Packs
- Groundbreaking Ergonomic and Lightweight Design for Easy and Tireless Long-Term Usage
- Acoustic and Visual Indicators
- Robust Design for Reliable Operation even under Rough Industrial Conditions
- Battery Monitoring with Security Switch-Off Before Output Drops
- Monitored Fan Cooling

For detailed product and qualification information, contact or visit us at www.secu-chek.com/uvn-h1

UVE-Series (Pro)

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Revolutionary UV Features:

- Electronic UV-LED Monitoring to Use UV LED Sources At Least As Secure As Bulb-based UV Sources
- Programmable Adaption Time Signalization (1, 3 or 5 minutes)
- Qualified and Approved According to Rolls-Royce RRES 90061
- Individually Configurable by the User
- Guaranteed Requalification Possibility for Upcoming Aerospace, ASTM and ISO Standards (at Least Until 2017, for Selected Models)
- Conform to All Actual Major Standards (November 2015)
- ECO-Mode for Maximum Life-Time and Power-Saving, Auto Switch-OFF and Switch-ON
- Acoustic, Visual and Tactile (Vibrating) Indicators
- Exceptional Life-Time of more than 18.000 hours Time of Usage Under Real Conditions
- Retractile Coiled Power Cord
- Detailed Qualification Report and Certificate of Compliance Stating All Lamp Individual Results

Revolutionary White Light Option:

- Stepless Soft White Light Dimming and Crossfade Features for Maximum Interpretation Capability Instead of Showing Different Pictures and Flash Blinding the Eyes
- In-Use Adjustable White Light Output, With Fallback Option
- White Light Funtions Additionally Hands-free Operable by Foot Paddles
- High-End White Light in Daylight Quality (5,700 K | CRI > 90) Extreme Uniform and Large Illumination
- White Light Shiftable in Addition to UV UV / White Light Toggling

Basic Specification:

- Real Peak 365 ± 5 nm Always During Operation Within the Qualified Temperature Range
- Battery Monitoring with Pre-Warnung and Security Switch-Off Before Output Drops
- Qualified and Approved for Ambient Temperatures from 5° to 50° C (40° - 122° F)
- Groundbreaking Ergonomic and Lightweight Design for Easy and Tireless Long-Term Usage
- Temperature Monitoring and Overheat Protection With Pre-Warning
- Integrated UV-Pass Filter
- Robust Design for Reliable Operation Even Under Rough Industrial Conditions
- Mains Supply by AC/DC Transformer and Mobile Battery Supply by Rechargeable NiMH or Lilon Battery Packs

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For detailed product and qualification information, contact or visit us at www.secu-chek.com/uve-h1

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www.uv-led-lamp.com

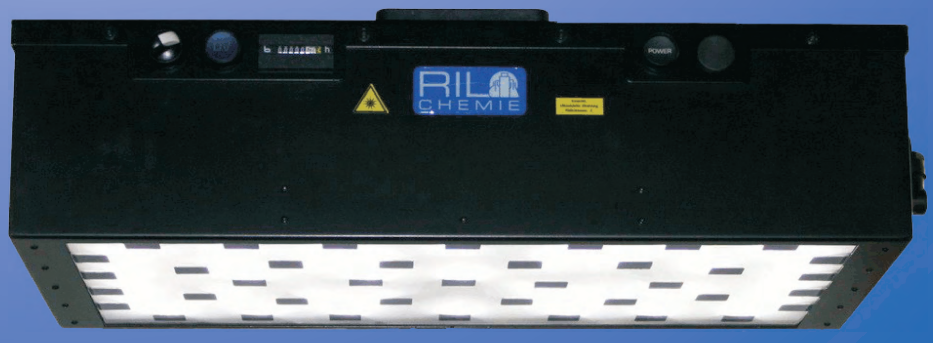
UV-LED-Floodlamps
UVED-S

- extra long-lasting, state-of-the-art LED-Technology
- Peak-Wavelength: 365 nm (± 5 nm)
- extra large irradiation area for optimal examination performance
- exceptional uniform distribution of the UV-radiation
- instant ON/OFF
- any irratiation area feasible
- low heat development
- tough industrial-grade for 24/7 and heavy duty use
- optional finely dimmable white light, shiftable in addition to UV or autonomous usable
- NO visible reflections, also on shining surfaces
- maximum contrast
- maximum stability of intensity and wavelength
- high-quality fan-cooling
- according to ISO/DIS 3059, ISO 9934, ISO 3452, ASTM- und ASME-standards
- engineered and manufactured in Germany

exceptional uniform distribution of the radiation

UV-intensity adjustable ex works

shiftable + dimmable white light up to 185 fc (2.000 lux)



further product information on the back side and www.uv-led-lamp.com/uved-s

UVED-S stationary UV-LED-Floodlamps for industrial usage

Type:	Focus:**	UVED-S712W	UVED-S712	UVED-S710S	UVED-S710SW	UVED-S610	UVED-S608S	UVED-S508	UVED-S507S
Order Number:		800-UVED-S712W	800-UVED-S712	800-UVED-S710S	800-UVED-S710SW	800-UVED-S610	800-UVED-S608S	800-UVED-S508	800-UVED-S507S
Peak-Wavelength:		365 nm (± 5nm)							
FWHM (Full Width Half Maximum):		< 15 nm							
UV-A-Intensity in 38 cm (15 in.) Distance (high level):	FL	> 3,000 µW/cm² (30 W/m²)		> 2,200 µW/cm² (22 W/m²)		> 3,000 µW/cm² (30 W/m²)	> 2,000 µW/cm² (20 W/m²)	> 2,600 µW/cm² (26 W/m²)	> 2,000 µW/cm² (20 W/m²)
	F1	> 5,500 µW/cm² (55 W/m²)		> 4,000 µW/cm² (40 W/m²)		> 5,500 µW/cm² (55 W/m²)	> 4,000 µW/cm² (40 W/m²)	> 5,000 µW/cm² (50 W/m²)	> 4,000 µW/cm² (40 W/m²)
	F2	> 6,700 µW/cm² (67 W/m²)		not available		> 7,500 µW/cm² (75 W/m²)	not available	> 6,300 µW/cm² (63 W/m²)	not available
Minimum Working Distance:	FL	14 cm (5.5 in.)		15 cm (6 in.)		10 cm (4 in.)	15 cm (6 in.)	20 cm (8 in.)	15 cm (6 in.)
	F1	23 cm (9 in.)		25 cm (10 in.)		20 cm (8 in.)	25 cm (10 in.)	31 cm (12 in.)	25 cm (10 in.)
	F2	26 cm (10 in.)		not available		34 cm (13 in.)	not available	34 cm (13 in.)	not available
Irradiated Area in 38 cm (15 in.): > 1,000µW/cm² (10 W/m²)	FL	70 x 40 cm (28 x 16 in.)		65 x 35 cm (26 x 14 in.)		60 x 40 cm (24 x 16 in.)	55 x 35 cm (22 x 14 in.)	50 x 40 cm (20 x 16)	45 x 35 cm (18 x 14 in.)
	F1								
	F2	65 x 35 cm (26 x 14 in.)		not available		55 x 35 cm (22 x 14 in.)	not available	45 x 35 cm (18 x 14 in.)	not available
Irradiated Area in 38 cm (15 in.) > 100µW/cm² (1 W/m²) (realized area):	FL	105 x 95 cm (41 x 37 in.)		90 x 80 cm (35 x 32 in.)		95 x 85 cm (37 x 33 in.)	90 x 80 cm (35 x 32 in.)	85 x 75 cm (33 x 30 in.)	70 x 60 cm (28 x 24 in.)
	F1	90 x 65 cm (35 x 26 in.)		70 x 50 cm (28 x 20 in.)		80 x 60 cm (32 x 24 in.)	70 x 55 cm (28 x 22 in.)	60 x 50 cm (24 x 20 in.)	50 x 40 cm (20 x 16 in.)
	F2	85 x 60 cm (33 x 24 in.)		not available		70 x 55 cm (28 x 22 in.)	not available	55 x 45 cm (22 x 18 in.)	not available
UV Intensity Levels:		1							
Stability of UV-Intensity		> 90%							
Number of UV-LEDs:		39		33			28	26	24
Visible Output:		< 2 Lux		< 5 Lux		< 2 Lux	< 5 Lux	< 2 Lux	< 5 Lux
Visible Reflections:*		NO Reflections		minimal, substantial less than HID-UV-Sources		NO Reflections	minimal, substantial less than HID-UV-Sources	NO Reflections	minimal, substantial less than HID-UV-Sources
Typical Life Time T70		> 10,000 h		> 8,000 h		> 10,000 h	> 8.000 h	> 10,000 h	> 8,000 h
Typical Life Time T50		> 15,000 h		> 12,000 h		> 15,000 h	> 12.000 h	> 15,000 h	> 12,000 h
Risk Class according to DGZfP EM-6:		2							
Allowed Ambient Conditions:		Temperature: 0 - 55 °C (35 - 135 °F), Humidity: 20 - 80 % (non-condensing)							
Shiftable and Autonomous Usable White Light:		finely dimmable	not available		finely dimmable	not available			
Dimmable White Light		stepless 20 - 800 Lux via control dial	not available		stepless 20 - 800 Lux via push button	not available			

* when using ISO/DIS 3059 conform, clear UV-Protection-Glasses (Article 800-UV-SB-NR)

** Fl: Floodlamp F1: softly focussed F2: focussed

robust, multipurpose fixture
for easy and stable mounting
800-UVED-S-Z-UH500
800-UVED-S-Z-UH6007

protection-pane attachment set
800-UVED-S-Z-SSBS

UV-permeable protection-pane
3 different sizes
800-UVED-S500-XSS3
800-UVED-S600-XSS3
800-UVED-S700-XSS3

high-quality white-light filter
for zero VIS-emission and
NO reflections
800-UVED-SFG-XXX-YY

foot-operated dimmer for all
UVED-lamp types to dimm
UV or VIS (customizable)
800-UVED-SW-FR

customizable
ON/OFF-foot-switch
for UV and/or VIS
800-UVED-SW-FS-UVWL

We reserve the right of error, improvement and technical modification without notice.

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further information and accessories:
www.uv-led-lamp.com/uved-s

Version: 10.2012

DETEK NONDESTRUCTIVE TESTING EQUIPMENT

BLUELINE MODEL FL5000™ INSPECTION LIGHT

The BlueLine Model FL5000 is a revolutionary new flashlight for fluorescent NDT inspection. It does the job that you are used to doing with high powered UV lights, but does it with much more ***convenience***.

- ***Compact, lightweight***
- ***Instant on/off***
- ***High intensity, low power consumption***
- ***Flashing mode for ambient light inspection***
- ***Doesn't get hot***
- ***No bulb to break or burn out***
- ***Safe blue wavelengths***
- ***Rugged, waterproof***

Three styles of filter glasses, all ANSI-certified safety glasses

Model FG1

Model FG2

Model FG3

6805 COOLRIDGE DR ■ TEMPLE HILLS MD 20748
301-449-7300 ■ 800-638-0554 ■ FAX 301-449-7011
EMAIL: sales@detek.com

Features

- Two high intensity 3W LEDs with current-regulated output
- Focusing optics for intense spot beam
- Matched with BlueLine filter glasses for maximum contrast
- Two operating modes – steady and flashing
- Non-breakable locking switch prevents accidental actuation
- Integral pistol style grip
- Front lens protected by heavy rubber boot for drop protection
- Tough, non-corroding ABS and polycarbonate plastic construction
- Rubber sleeve wrist lanyard
- Environmentally sealed - waterproof to 500 feet

Specifications

- Intensity: >3,500 $\mu W/cm^2$ at 15”
- Lamp life: >10,000 hours
- Batteries: 4 C cell alkaline
- Weight: 25 oz. (0.7 kg)
- Size: 5” L x 3.2” D (12.7 cm L x 8.1 cm D)

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