



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 Actual 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*

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 Lilon 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

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 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 $\mu\text{W}/\text{cm}^2$) and Irradiation Area Sizes
-  

Power Supply

-  All Worldwide Mains Plugs and Voltages Versions Available
-  External Standard Transformer with Permanently Fixed Cables Made in Europe
-  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
-  Rechargeable NiMH Battery Pack

Accessories

-  Foot-Paddle for Handsfree Operation of the White Light Options
-  Robust Carrying Case
-  Various Mounting Equipments
-  UV Pass Filter
-  UV Protection Glasses
-  Qualified Retractable Coiled and Straight Extension Cords

Detailed UV Specification:



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



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



10,000 Hours Typical Operation Time with
At Least 70% of the Output at Delivery
Under Real Conditions



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 Lilon Battery Packs



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



High Quality Cool White Light
(5,000 K | CRI > 80)
Large Illumination Area



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



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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



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



Battery Monitoring with Security Switch-Off Before Output Drops



Groundbreaking Ergonomic and Lightweight Design for Easy and Tireless Long-Term Usage



Monitored Fan Cooling



Acoustic and Visual Indicators

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



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



Retractable 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 Functions 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-Warning 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

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

