

# AEROSPACE

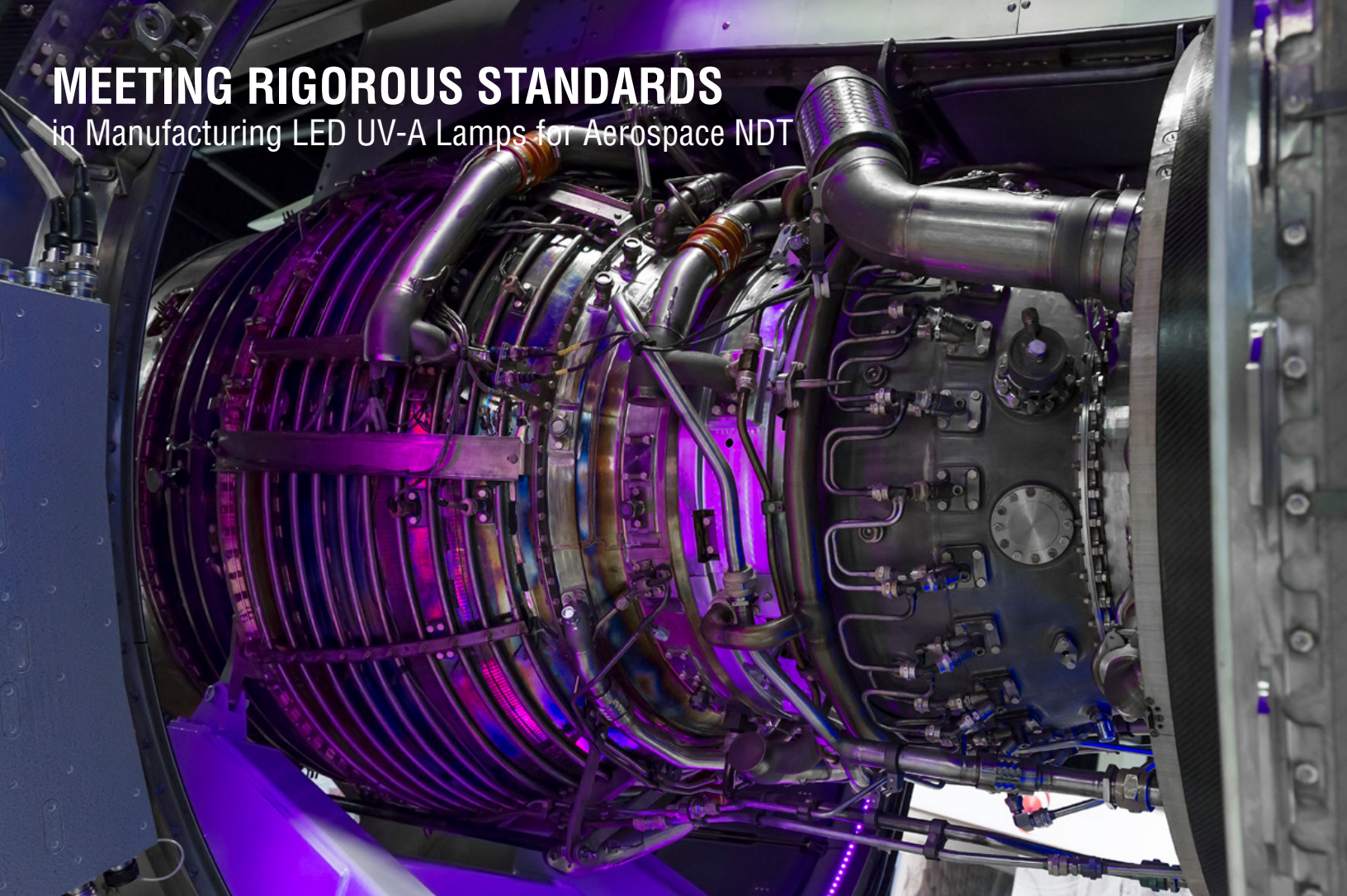
TREND REPORT 2017





# MEETING RIGOROUS STANDARDS

in Manufacturing LED UV-A Lamps for Aerospace NDT



## INDUSTRY STANDARDS FOR LED UV-A NDT INSPECTION LAMPS

Aerospace industry standards for NDT/NDE inspection lamps are in place to ensure the safety and efficiency of UV-A lamps used in fluorescent inspection of critical parts and infrastructure.

Both ASTM and aerospace companies, such as Rolls-Royce, write standards to cover the procedures involved in testing the performance of Ultraviolet A (UV-A), light emitting diode (LED) lamps used in fluorescent penetrant and fluorescent magnetic particle testing. These specifications also include reporting and performance requirements of UV-A LED inspection lamps.

These tests are intended to be performed only by the manufacturer to certify performance of specific lamp model features (housing, filter, diodes, electronic circuit design, optical elements, cooling system, and power supply combination). This also includes limited acceptance tests for individual lamps delivered to the user. The test procedure is not intended to be utilized by the end user.

Spectroline® meets ASTM E3022 and Rolls-Royce RRES 90061 compliances in several lamp models. The company certifies the performance of lamps with rigorous in-house testing. Test performances are recorded on serialized Certificates of Conformance (ASTM) and Validation Report (RRES), which show that the lamp has met lamp acceptance test requirements, emission spectrum measurements, and filter transmittance tests before it is shipped to the end user.

Spectroline® is the world leader in UV-A lights and leak detection solutions, serving the Aerospace industry worldwide.



# MEMBERS OF THE INTERNATIONAL AEROCHEMICALS ALLIANCE



Aerochemicals is a global alliance of independent specialists in industrial chemicals for the aerospace industry and is committed to providing products and technical support to multinational customers with global needs. The five founding members are **Contec**, **MagChem**, **PSA**, **Sherwin BabbCo**, and **Socomore**.

Spectronics joins the dynamism of the alliance as the sole manufacturer of compliant LED UV-A inspection lamps. The Spectroline® brand is a world leader in NDT equipment, radiometers, photometers, UV-A lamps, and accessories. Spectroline® UV lamps and radiometers are widely used in Magnetic Particle Testing (MPT) and Liquid Penetrant

Inspections (LPI), to verify the structural integrity of military and commercial aircraft.

The objective of joining the alliance is to work with other partners to improve the safety of aerospace, and to better serve the market. With this alliance, our OEM customers will obtain a guarantee that the partners with whom they develop products and technologies will have the capacity to ensure worldwide distribution to airlines and MRO.



## AS SEEN ON CNN: SPECTROLINE INSPECTION TOOLS RELIED UPON BY THE US MILITARY FOR INSPECTING CRITICAL COMPONENTS IN A TIME OF BUDGET DEBATES

The often-debated topic of military and defense spending has made news yet again. Just this week, military services warned the US Congress about passing a comprehensive spending plan to support the Airforce and Navy this year.

Spectroline® NDT/Aviation Leak Detection products are relied upon by the US Military and a Spectroline® inspection flashlight was featured in a 2017 CNN news report on military budgets.

Military budgets directly affect trainings, deployments, purchasing, and maintenance of important equipment, including airplanes. The budget that gets passed in the next few weeks will go into fixing and maintaining planes in the Airforce and Navy.

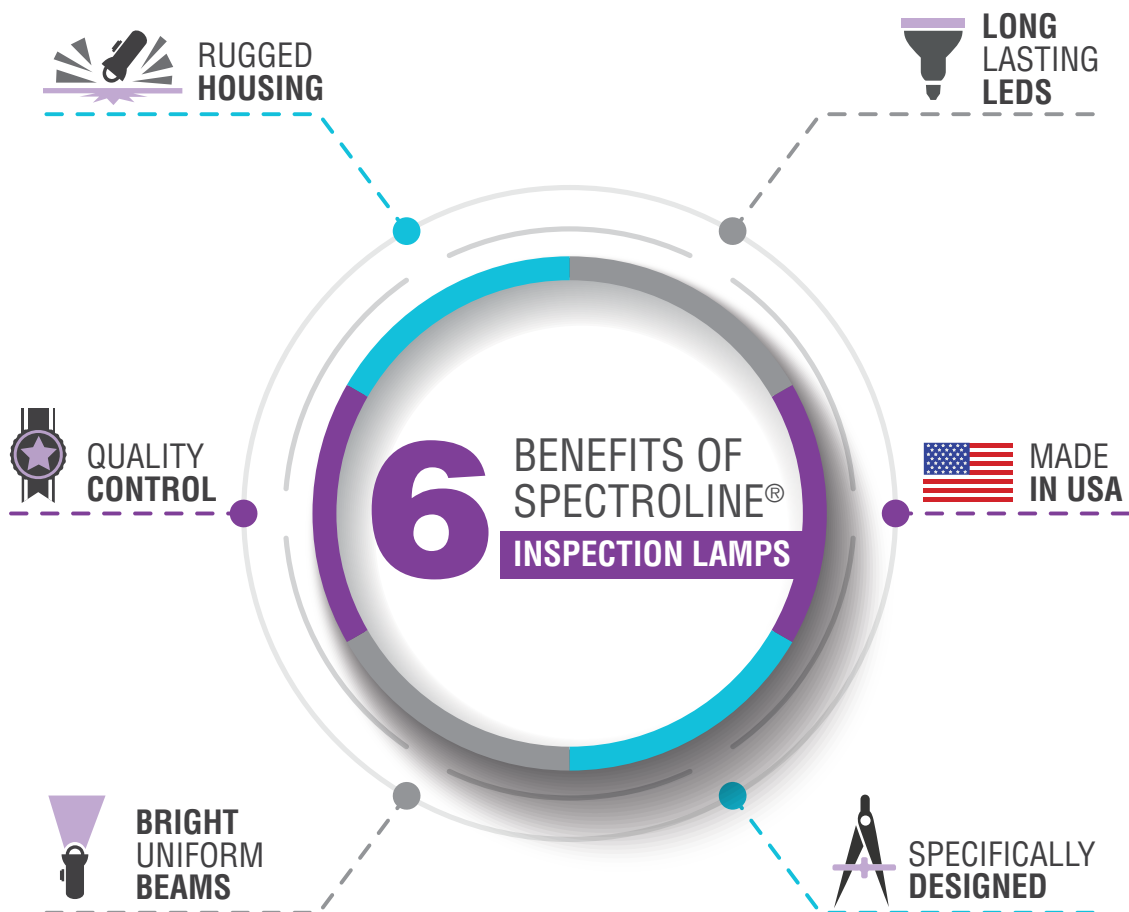


Here is a screenshot of Airforce Aviation Technicians inspecting a fighter jet with a Spectroline® OPTIMAX™ Cordless, Rechargeable LED Flashlight.



**Spectroline® products include fluorescent detection and diagnostic tools for Aviation Fluid Systems. Additionally, Spectroline® manufactures the highest quality UV-A LED inspection lamps available.**

Nondestructive Testing of aerospace components, as well as leak detection, are two fields where Spectronics Corporation is a global leader. The US Military trusts Spectroline® brand equipment, manufactured at Spectronics, to ensure the reliability of important aerospace and ship components.



## SPECTRONICS CORPORATION

Spectronics Corporation is the world's leading manufacturer of ultraviolet equipment and fluorescent materials. These state-of-the-art products are built to exacting engineering standards and are utilized for literally hundreds of markets and applications that demand uncompromising quality and reliability. More than six decades since its inception, the goal of Spectronics is still the same — to produce effective, top-quality products that are on the cutting edge of today's technology with the utmost dedication to customer satisfaction.

 SPECTRONICS CORPORATION  
[www.spectroline.com](http://www.spectroline.com)

956 Brush Hollow Rd, Westbury, NY 11590 USA  
800-274-8888 • 516-333-4840



10/17 A17232  
PRINTED IN USA