

SPECTROLINE[®]

Fluorescent Leak Detection and **DIAGNOSTIC TOOLS for Aviation Fluid Systems**



Applications

- Aircraft Fuel Systems
- Hydraulic Systems
- Pneumatic Systems
- Vacuum Systems
- Reciprocating Engine Lubrication Systems
- Turbine Engines
- And Much More!

**SPECTRONICS
CORPORATION**

ISO 9001:2008 CERTIFIED COMPANY



Fluorescent Leak Detection

How it works

Just add a small amount of fluorescent dye to the system and let it circulate. The dye/fluid mixture escapes with the host fluid wherever there is a leak and glows brightly when inspected with a SpectrolinE® high-intensity UV inspection lamp.



Myths

- Hydraulic systems are supposed to leak
- Dyes cost too much
- Hard to implement in fluid systems



Benefits

- Fast, easy and accurate
- Finds all leaks —the first time, every time
- Economical
- Reduces labor costs
- Perfect for preventive maintenance
- Environmentally friendly
- Safe
- Improves working conditions
- Decreases equipment downtime
- Increases efficiency of flight operation

LEAK DETECTION DYES

AD-8609

Aero-Brite™ Universal Fluorescent Leak Detection Dye

Locates all leaks in petroleum- and synthetic-based aviation fluid systems!

Checks an entire system in just minutes!

Ideal for use as part of a diagnostic/preventive maintenance program for commercial and military aircraft fuel and fluid systems! Meets Mil Spec MIL-D-81298D, Type III, Green Fluorescent for aircraft fuel systems.



- **FAST** — The quickest way to inspect for leaks in aircraft fuel, lubrication and hydraulic systems.
- **SAFE** — Specially formulated to accommodate the host fluid. Will not damage the fluid properties or any of the system components.
- **VERSATILE** — Allows inspection of the entire system under virtually all operating conditions. Ideal for both in-flight and static testing.
- **COST EFFECTIVE** — Super-concentrated. Use less per dose!
- **FLUORESCES BRILLIANTLY** — Leaks glow a bright **green** under UV light.

Available in 8 oz (237 ml), 16 oz (473 ml) and 32 oz (946 ml) bottles, and 1 gallon (3.8 L) containers.

Also available: SP-8609-0100 fluorescent leak detection dye for aircraft fuel systems (NSN: 6820-01-386-8609). Can also be used to locate hydraulic and engine oil leaks. Supplied in 1 gallon (3.8 L) container.

SUGGESTED DILUTION RATIOS

Host Fluid	Dye Amount
Jet Fuel (static)	2.0 oz (59 ml) dye per 100 gals (379 L)
Jet Fuel (in-flight)	1.6 oz (47 ml) dye per 100 gals (379 L)
Hydraulic Fluid	0.25 oz (7.4 ml) dye per 4 gals (15.1 L)
Engine Oil	0.25 oz (7.4 ml) dye per 1 gal (3.8 L)

COMPLETE LEAK DETECTION KIT

ALK-365

Aviation Leak Detection Kit

The most complete kit for finding leaks in aircraft fluid systems. Works with all petroleum- and synthetic-based lubricants and fluids!

Prevents expensive equipment breakdown and potential safety hazards. Ideal for pinpointing leaks in fuel, lubrication and hydraulic systems.

Includes:

- OPTIMAX™ 365 super-high intensity, cordless, rechargeable UV LED leak detection flashlight
- 8 oz (237 ml) bottle of Aero-Brite™ AD-8609 universal fluorescent dye for aircraft fluid systems
- 8 oz (237 ml) spray bottle of GLO-AWAY™ dye cleaner
- Smart AC and DC chargers. AC charger available in 120V, 230V, 240V or 100V versions.
- UV-absorbing glasses, holster and soft carrying case



LEAK DETECTION LAMP KITS

CORDLESS UV LED FLASHLIGHT

OPX-365

OPTIMAX™ 365 UV LED Flashlight (Patent Pending)

Features state-of-the-art, ultra-hi-flux LED technology!

Makes even dirty oil leaks glow brightly!

- Four times brighter than other high-intensity UV lamps
- Inspection range of up to 20 feet (6.1 m)
- Instant-on operation allows lamp to reach full intensity immediately. Eliminates warm-up time.
- Electronic Intensity Stabilizer assures consistent performance. Maintains high UV intensity between charges.
- Powered by a rechargeable NiMH battery (included). Provides 90 minutes of continuous inspection between charges.
- 30,000-hour LED life
- Includes smart AC and DC chargers, UV-absorbing glasses, belt holster and padded carrying case. AC charger available in 120V, 230V, 240V or 100V versions.



HIGH-POWERED, CORDED UV LAMPS

MLK-35A

MAXIMA™ Series UV Lamp Kits

Feature state-of-the-art Micro Discharge Light (MDL) technology!

Deliver unprecedented power—up to 10 times the UV-A output of conventional High Intensity Discharge (HID) lamps!

- Instant-on operation allows lamp to reach full intensity immediately. Eliminates warm-up time.
- Works even in direct sunlight
- Inspection range of up to 30 feet (9.1 m) or more
- Includes 8 oz (237 ml) bottle of Aero-Brite™ AD-8609 universal fluorescent dye for aircraft fluid systems

For maximum convenience, a portable, battery-operated “MA” version is also available



MLK-35A standard version



MLK-35MA battery-operated version

MLK-35A lamp kit includes UV-absorbing glasses (UVS-30), fluorescence-enhancing glasses (UVS-40), extra large carrying case (CC-350) and 8 oz (237 ml) spray bottle of GLO-AWAY™ dye cleaner (CR-800). **MLK-35MA** lamp kit also includes BP-12A 12-volt rechargeable battery pack, as well as AC and 12V DC cord sets. AC charger available in 120V, 230V, 240V or 100V versions.

WE DETECT MORE THAN JUST AIRCRAFT LEAKS!

As the world leader in fluorescent leak detection, Spectronics Corporation also offers super-bright, super-concentrated dyes for finding leaks in:

- Ground support vehicles (engine oil, coolant, automatic transmission fluid, power steering fluid, gasoline/diesel fuels and hydraulics)
- Air conditioning and refrigeration systems
- Fluid systems in buildings and facilities
- Industrial and hydraulic systems

Contact our Customer Service Department at 800-274-8888 (U.S. and Canada) or 516-333-4840 for more information about our full line of products and a dealer near you, or visit: www.spectroline.com



SPECIALIZED DIAGNOSTIC TOOLS

ULTRASONIC DIAGNOSTIC TOOL

MDE-1000 Marksman™

Converts and amplifies inaudible ultrasonic sound into audible “natural” sound for accurate diagnosis. Finds problems *before* they result in major breakdowns.

- Quickly detects compressed air, vacuum, pneumatic and other pressurized leaks quickly and effortlessly
- Pinpoints gear and bearing wear in internal components and electric motors
- Checks for electrical discharge associated with insulation breakdown, carbon tracking and arcing
- Detects irregular fluid turbulence due to restrictions in hydraulic lines
- Finds air and water leaks that pass by faulty seals, gaskets and weather stripping in doors, windows and other non-pressurized enclosures

Master Kit includes: ultrasonic receiver, ultrasonic emitter, headphones, air probe, contact probe and padded carrying case

Also available: MD-500 Kit (same as MDE-1000, but without emitter)

MULTI-PURPOSE BORESCOPIES

CB-1000 COBRA™ (Patented)

Features built-in UV LED for detecting fluid leaks and surface flaws plus a white light LED for component inspection!

- Advanced 7400 pixel imaging bundle and adjustable-focus eyepiece allow crystal-clear viewing
- “No-droop” shaft maintains position for easier access into hard-to-view areas
- Strong impact- and water-resistant nylon housing stands up to daily abuse
- Pistol grip handle provides steady, comfortable viewing
- Clip-on mirror permits viewing at an angle to detect “hidden” leaks and flaws
- Comes equipped with 10 mm, 24 inch (61 cm) shaft
- Includes fluorescence-enhancing glasses and padded carrying case

CB-600 COBRA-6™

Features interchangeable, super-bright blue and white light LED flashlights for both leak detection and internal component inspection. Thin, flexible shaft gets into places other scopes miss!

- Durable, thin, water- and abrasive-resistant 6 mm, 38 inch (96.5 cm) shaft
- Advanced, 7400 pixel imaging bundle provides unsurpassed resolution and clarity
- Versatile, press-fit coupler allows quick changing of light sources
- Clip-on, angled mirror helps pinpoint leaks and flaws normally hidden from view
- Includes fluorescence-enhancing glasses and padded carrying case

CB-400 COBRA-4™

Features detachable dual-head flashlight with super-bright blue and white light LEDs. Ideal for both leak detection and internal component inspection. Designed for specialized applications that require extended reach or viewing into deep recesses; slides easily into inaccessible areas!

- Ultra-thin, 4 mm water- and abrasive-resistant 36 inch (91.4 cm) shaft for added versatility. Reaches into very small spaces and tight orifices other scopes miss!
- Advanced 7400 pixel imaging bundle provides unsurpassed resolution and clarity
- Versatile, press-fit coupler design allows for quick attachment of light source
- Clip-on, angled mirror helps pinpoint leaks and flaws normally hidden from view
- Includes fluorescence-enhancing glasses and padded carrying case

To learn more about our wide range of leak detection and diagnostic tools, visit

www.spectroline.com

