

# FLUORESCENT

Leak Detection Products & Specialty Tools

## FOR INDUSTRIAL SYSTEMS



OEM MRO VMI

### TRUSTED BY INDUSTRY LEADERS



HYDRAULIC SYSTEMS

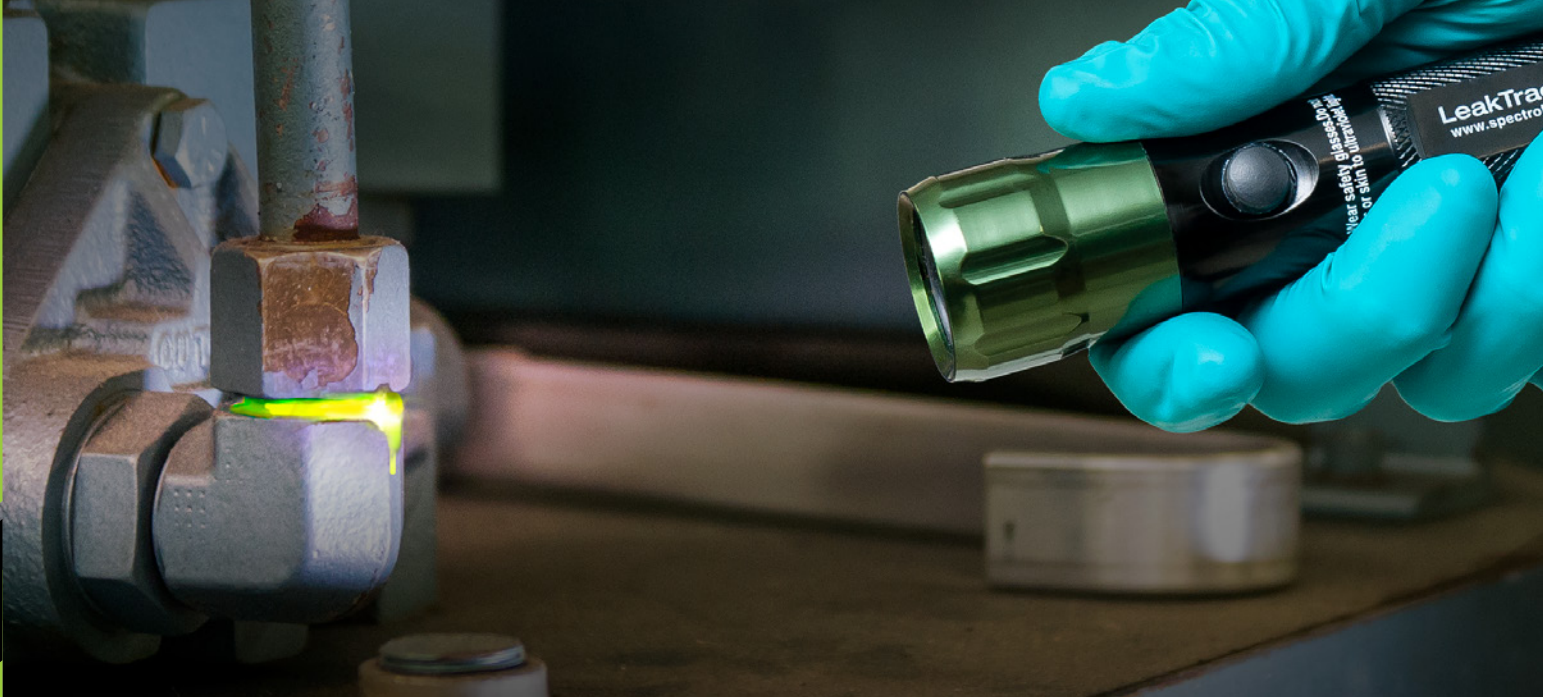


PNEUMATIC SYSTEMS



AVIATION SYSTEMS





# SPECTROLINE®

## LEAK DETECTION

- ▶ Fast, easy and accurate
- ▶ Finds every system leak
- ▶ Environmentally friendly
- ▶ Remains safely in the system
- ▶ Reduces equipment downtime
- ▶ Extends service life
- ▶ Cost effective and concentrated
- ▶ Perfect for preventative maintenance

## CONTENTS

The Spectrolin® Advantage .....	04
OIL-GLO® Series Fluorescent Dye Color Chart.....	04
Dye Dosage Chart .....	05
<b>NEW!</b> Complete Leak Detection Kits .....	06-07
<b>Violet Light &amp; UV LED Flashlights:</b>	
<b>NEW!</b> Violet Light LED Leak Detection Flashlight .....	08-09
UV LED Leak Detection Flashlights .....	08-09
<b>NEW!</b> High-Intensity UV LED Inspection Lamp.....	10-11
Aviation Leak Detection Products .....	12-13
Marksman™ II Ultrasonic Diagnostic Tool .....	14
Dye Selection / Oil Sample Analysis Kit .....	15
<b>NEW!</b> GLO-AWAY™ PLUS Fluorescent Dye Cleaner.....	15

## FLUORESCENT LEAK DETECTION:

Working for you **24/7** – Once **IN**, always **ON**.



**STEP 1:**  
Add dye to the system & let it circulate

**STEP 2:**  
Scan system with a Spectrolin leak detection lamp and see any leaks glow brightly

Dye continues circulating in the system working for you around the clock, 24/7 to quickly identify any future leaks

Have peace of mind you're using the **ultimate leak detection and preventative maintenance solution** in the industry!



# SYSTEM APPLICATIONS

## INDUSTRIAL



HYDRAULIC SYSTEMS



PIPELINES



TURBINES



VACUUM SYSTEMS



LIQUID HOLDING TANKS



COOLING TOWERS



COMPRESSED AIR LINES



NATURAL GAS LINES



PNEUMATIC SYSTEMS



PROPANE TANKS

## AVIATION



AIRCRAFT FUEL SYSTEMS



VACUUM SYSTEMS



RECIPROCATING ENGINE LUBRICATION SYSTEMS



TURBINE ENGINES

## NEW PRODUCTS INSIDE

### COMPLETE LEAK DETECTION KITS

Complete, OEM-Grade leak detection kits. Complete kits include everything needed to locate leaks in industrial equipment. Each kit contains a flashlight and fluorescent dye to detect hard-to-find leaks.

Perfect for preventative maintenance programs and in-the-field diagnostic repair.

**NEW!**  
oem  
GRADE



SEE PAGE  
**06**  
FOR COMPLETE  
INFORMATION

### PRECISION ENGINEERED LEAK DETECTION FLASHLIGHTS

Compact and powerful leak detection flashlights that feature a single high-intensity LED. Perfect for fluorescing leaks from a distance. Highly durable and tested to withstand industrial environments.

Manufactured with corrosion-resistant materials. All models provide optimal fluorescent dye response and contrast.

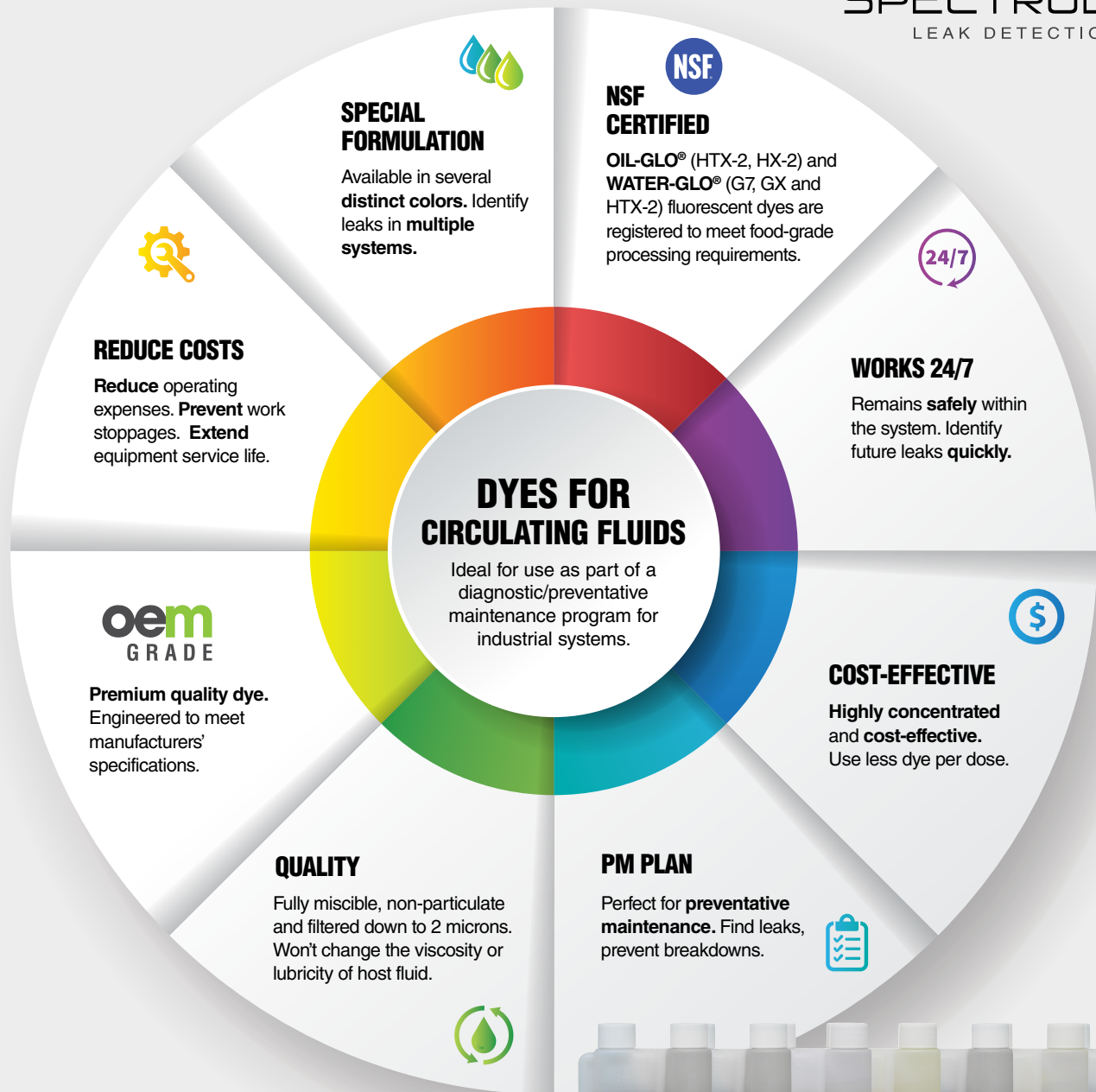
**NEW!**



SPI-VL  
Violet Light LED Leak Detection Flashlight

SEE PAGE  
**08**  
FOR COMPLETE  
INFORMATION





**OIL-GLO® SERIES FLUORESCENT DYE COLOR CHART:**

		OIL-GLO® 20	OIL-GLO® 30	OIL-GLO® 33	OIL-GLO® 40	OIL-GLO® 44	OIL-GLO® 45	OIL-GLO® 50
Shown Under <b>365 nm</b> UV LIGHT	Light Hydraulic Fluid	[Yellow]	[White]	[Green]	[Blue]	[Yellow-Green]	[Blue-White]	[Pink]
	Dark Hydraulic Fluid	[Yellow]	[White]	[Green]	[Blue]	[Yellow-Green]	[Blue-White]	[Pink]
	Compressor Oil	[Yellow]	[White]	[Green]	[Blue]	[Yellow-Green]	[Blue-White]	[Pink]
	Engine Oil	[Yellow]	[White]	[Green]	[Blue]	[Yellow-Green]	[Blue-White]	[Pink]
	Gearbox Oil	[Yellow]	[White]	[Green]	[Blue]	[Yellow-Green]	[Blue-White]	[Pink]
Shown Under <b>400 nm</b> VIOLET LIGHT	Light Hydraulic Fluid	[None]	[None]	[None]	[None]	[None]	[None]	[None]
	Dark Hydraulic Fluid	[None]	[None]	[None]	[None]	[None]	[None]	[None]
	Compressor Oil	[None]	[None]	[None]	[None]	[None]	[None]	[None]
	Engine Oil	[None]	[None]	[None]	[None]	[None]	[None]	[None]
	Gearbox Oil	[None]	[None]	[None]	[None]	[None]	[None]	[None]





**Note:** All OIL-GLO® and WATER-GLO® fluorescent dyes are NSF Certified and registered to meet food-grade processing requirements.  
**OIL-GLO®** oil-based dyes meet category codes HTX-2 and HX-2.  
**WATER-GLO®** water-based dyes meet category codes G7, GX and HTX-2.

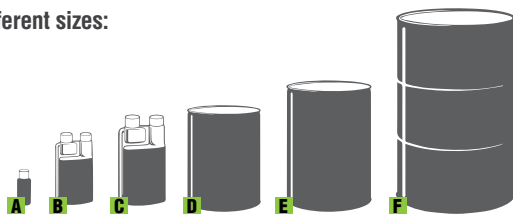
**Legend**

- UV Lamp
- Violet Light Lamp
- UV-Absorbing
- Fluorescence-Enhancing

PRODUCT NO.	DYE COLOR	APPLICATION	SUGGESTED APPLICATION DILUTION RATIO:	% DYE TO SYSTEM FLUID:	USE WITH
OIL-GLO® 20/6* OIL-GLO® 20-8 OIL-GLO® 20-P OIL-GLO® 20-G	 Fluoresces Yellow	<b>SYNTHETIC- OR PETROLEUM-BASED FLUID SYSTEMS:</b> Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil	1 oz (30 ml) per 8 gals (30 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 3 gals (11 L) 1 oz (30 ml) per 1 gal (4 L)	0.10% 0.20% 0.20% 0.26% 0.78%	 ONLY
OIL-GLO® 30/6* OIL-GLO® 30-8 OIL-GLO® 30-P OIL-GLO® 30-G	 Fluoresces White	<b>SYNTHETIC- OR PETROLEUM-BASED FLUID SYSTEMS:</b> Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil	1 oz (30 ml) per 8 gals (30 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 3 gals (11 L) 1 oz (30 ml) per 1 gal (4 L)	0.10% 0.20% 0.20% 0.26% 0.78%	 ONLY
OIL-GLO® 33/6* OIL-GLO® 33-8 OIL-GLO® 33-P OIL-GLO® 33-G	 Fluoresces Green	<b>SYNTHETIC- OR PETROLEUM-BASED FLUID SYSTEMS:</b> Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil	1 oz (30 ml) per 8 gals (30 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 3 gals (11 L) 1 oz (30 ml) per 1 gal (4 L)	0.10% 0.20% 0.20% 0.26% 0.78%	 OR 
OIL-GLO® 40/6* OIL-GLO® 40-8 OIL-GLO® 40-P OIL-GLO® 40-G	 Fluoresces Bright Blue	<b>SYNTHETIC- OR PETROLEUM-BASED FLUID SYSTEMS:</b> Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil	1 oz (30 ml) per 8 gals (30 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 3 gals (11 L) 1 oz (30 ml) per 1 gal (4 L)	0.10% 0.20% 0.20% 0.26% 0.78%	 ONLY
OIL-GLO® 44/6* OIL-GLO® 44-8 OIL-GLO® 44-P OIL-GLO® 44-G	 Fluoresces Yellow Green	<b>SYNTHETIC- OR PETROLEUM-BASED FLUID SYSTEMS:</b> Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil Fuel (gasoline or diesel)	1 oz (30 ml) per 8 gals (30 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 3 gals (11 L) 1 oz (30 ml) per 1 gal (4 L) 1 oz (30 ml) per 12-18 gals (45-68 L)	0.10% 0.20% 0.20% 0.26% 0.78% 0.04 - 0.07%	 OR 
OIL-GLO® 45/6* OIL-GLO® 45-8 OIL-GLO® 45-P OIL-GLO® 45-G	 Fluoresces Blue†	<b>SYNTHETIC- OR PETROLEUM-BASED FLUID SYSTEMS:</b> Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil	1 oz (30 ml) per 8 gals (30 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 3 gals (11 L) 1 oz (30 ml) per 1 gal (4 L)	0.10% 0.20% 0.20% 0.26% 0.78%	 ONLY
OIL-GLO® 50/6* OIL-GLO® 50-8 OIL-GLO® 50-P OIL-GLO® 50-G	 Fluoresces Red	<b>SYNTHETIC- OR PETROLEUM-BASED FLUID SYSTEMS:</b> Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil	1 oz (30 ml) per 8 gals (30 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 4 gals (15 L) 1 oz (30 ml) per 3 gals (11 L) 1 oz (30 ml) per 1 gal (4 L)	0.10% 0.20% 0.20% 0.26% 0.78%	 OR 
GAS-GLO® 32** GAS-GLO® 32-P GAS-GLO® 32-G	 Fluoresces Yellow	<b>GASOLINE AND DIESEL FUEL SYSTEMS</b>	1 oz (30 ml) per 10 gals (38 L)	0.08%	 ONLY
WATER-GLO® 801-P WATER-GLO® 801-G	 Fluoresces Blue†	<b>WATER- AND WATER/GLYCOL-BASED FLUID SYSTEMS</b>	1 pt (473 ml) per 500 gals (1,900 L) water	0.03%	 ONLY
WATER-GLO® 802-P WATER-GLO® 802-G	 Fluoresces Green	<b>WORKS IN BOTH STATIC AND CIRCULATING SYSTEMS</b>	1 pt (473 ml) per 1,000 gals (3,800 L) water	0.01%	 OR 

**Available in different sizes:**

- A** 1 oz (30 ml)
- B** 8 oz (237 ml)
- C** 16 oz (473 ml)
- D** 1 gal (4 L)
- E** 5 gal (19 L)
- F** 55 gal (209 L)



**NOTE:** The suffix "8" denotes an 8 oz (237 ml) bottle; suffix "P" denotes a 16 oz (473 ml) bottle; suffix "G" denotes a 1 gal (4 L) pail.

The dilution ratios of Spectrolin® fluorescent dyes to the host fluids shown above are only guidelines. These ratios can be increased or decreased depending on the fluorescent response required and the ambient lighting conditions. A simple way to check for proper fluorescence is to remove a small amount of host fluid from the system and add the suggested amount of dye to it. Then shine a Spectrolin® leak detection lamp on this sample mixture and check for a bright fluorescent response.

\* Package of (6) 1 oz (30 ml) bottles

\*\* Case of (24) 1 oz (30 ml) bottles

† Appears clear. Will not discolor host fluid.



## FOR SYNTHETIC OR PETROLEUM-BASED FLUID SYSTEMS



**NEW!**

### OIL-GLO® COMPLETE Fluorescent Leak Detection Kit

SPI-VLOG44



- › SPI-VL Violet light LED, battery operated leak detection flashlight
- › OIL-GLO® 44 Patented 8 oz (237 ml) twin-neck bottle of concentrated oil dye. Treats up to 64 gallons (242 L) of fluid.



### LeakTracker™ COMPLETE Fluorescent Leak Detection Kit

LTK-441



- › LT-300 LeakTracker™ high-intensity, battery operated UV LED leak detection flashlight
- › OIL-GLO® 44 Patented 8 oz (237 ml) twin-neck bottle of concentrated oil dye. Treats up to 64 gallons (242 L) of fluid.





# COMPLETE LEAK DETECTION KITS



**FOR WATER OR WATER/GLYCOL-BASED FLUID SYSTEMS**



**NEW!**

## WATER-GLO® COMPLETE Fluorescent Leak Detection Kit

SPI-VLWG802



- **SPI-VL** Violet light LED, battery operated leak detection flashlight
- **WATER-GLO® 802** Patented 16 oz (473 ml) twin-neck bottle of concentrated water dye. Treats up to 1000 gallons (3,800 L) of fluid.



# ALL OUR CORDLESS LEAK DETECTION LAMPS FEATURE:

- > Compact Design for Getting Into Tight Spaces
- > Heavy-Duty, Durable Lamp Body
- > Powerful, High-Intensity LEDs



UP TO **25ft** (8 m)  
Inspection Range

**3x** AAA Batteries Included

**5h** Runtime

Fluorescence Enhancing (Optional)



UP TO **25ft** (8 m)  
Inspection Range

**Li-ION** Rechargeable Battery

**4h** Runtime

UV-Absorbing Glasses



UP TO **20ft** (6 m)  
Inspection Range

**3x** AAA Batteries Included

**4h** Runtime

UV-Absorbing Glasses

**SPECTROLINE®**  
Violet Light LED  
Leak Detection Flashlight

**SPI-VL**

- > Includes: anti-roll cuff, 3 AAA batteries and fluorescence enhancing glasses

**NOTE:** For most applications, our violet light lamp does not require fluorescence-enhancing glasses.

**OPTI-LUX™ 365**  
UV LED Leak  
Detection Flashlight

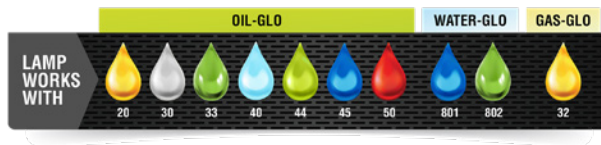
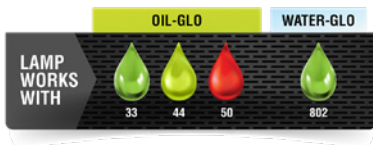
**OLX-365**

- > Includes: battery charging cradle with AC and DC cord sets, (1) spare rechargeable lithium-ion battery, UV-absorbing glasses, belt holster, lanyard and small carrying case

**LeakTracker™**  
UV LED Leak  
Detection Flashlight

**LT-300**

- > Includes: 3 AAA batteries, UV-absorbing glasses, belt holster, lanyard and small carrying case



- > Works with all oil- and water-based fluorescent dyes, including difficult-to-fluoresce yellow, white and blue dyes — even in dirty fluids



**NEW!**

**SPI-VL**

- › ECONOMICAL
- › BATTERY-OPERATED
- › VIOLET LIGHT LED



VIOLET & UV LED FLASHLIGHTS

**OLX-365**

- › PREMIUM QUALITY
- › RECHARGEABLE
- › UNIVERSAL UV LED



**LT-300**

- › COST EFFECTIVE
- › BATTERY-OPERATED
- › UNIVERSAL UV LED





# OUR HIGH-INTENSITY INSPECTION LAMP FEATURES:

- › Powerful Broad Beam Design for Inspecting Large Areas
- › Multiple UV LEDs
- › Dustproof and Water Resistant Housing
- › Long-Lasting Mobile Battery Pack Model for In-the-field Inspections



**3 UV LEDs**

UP TO **25ft** (8m)  
Inspection Range



**uVision™ 365**  
High-Intensity UV LED  
Inspection Lamp

**NEW!**

**SPI-UV365**

- › Features three UV LEDs and one white light LED
- › Broad beam design is perfect for inspecting large areas
- › High-Intensity output easily fluoresces all leaks
- › Inspection range of up to 25 feet (8 m)
- › IP65 Rated: dust proof and protected against water
- › Pistol grip for comfortable, balanced control
- › Includes: UV-absorbing glasses & durable padded case



**uVision™ 365 MOBILE MODEL**  
High-Intensity UV LED  
Inspection Lamp

**NEW!**

**SPI-UV365M**

- › Includes: uVision™ 365 lamp with AC power supply, UV-absorbing spectacles, and 12V rechargeable NiMH battery. All contents come in a durable padded case.







- > ULTIMATE INSPECTION TOOL
- > DUSTPROOF AND WATER RESISTANT
- > SCAN EXTREMELY LARGE AREAS

## IP65 RATED

**IP 65 RATED**  
Dust tight/protected against jets of water so your lamp is protected in harsh environments.



**LIGHTWEIGHT & RUGGED**  
Lightweight enough for using all day, and rugged enough for your work environment.

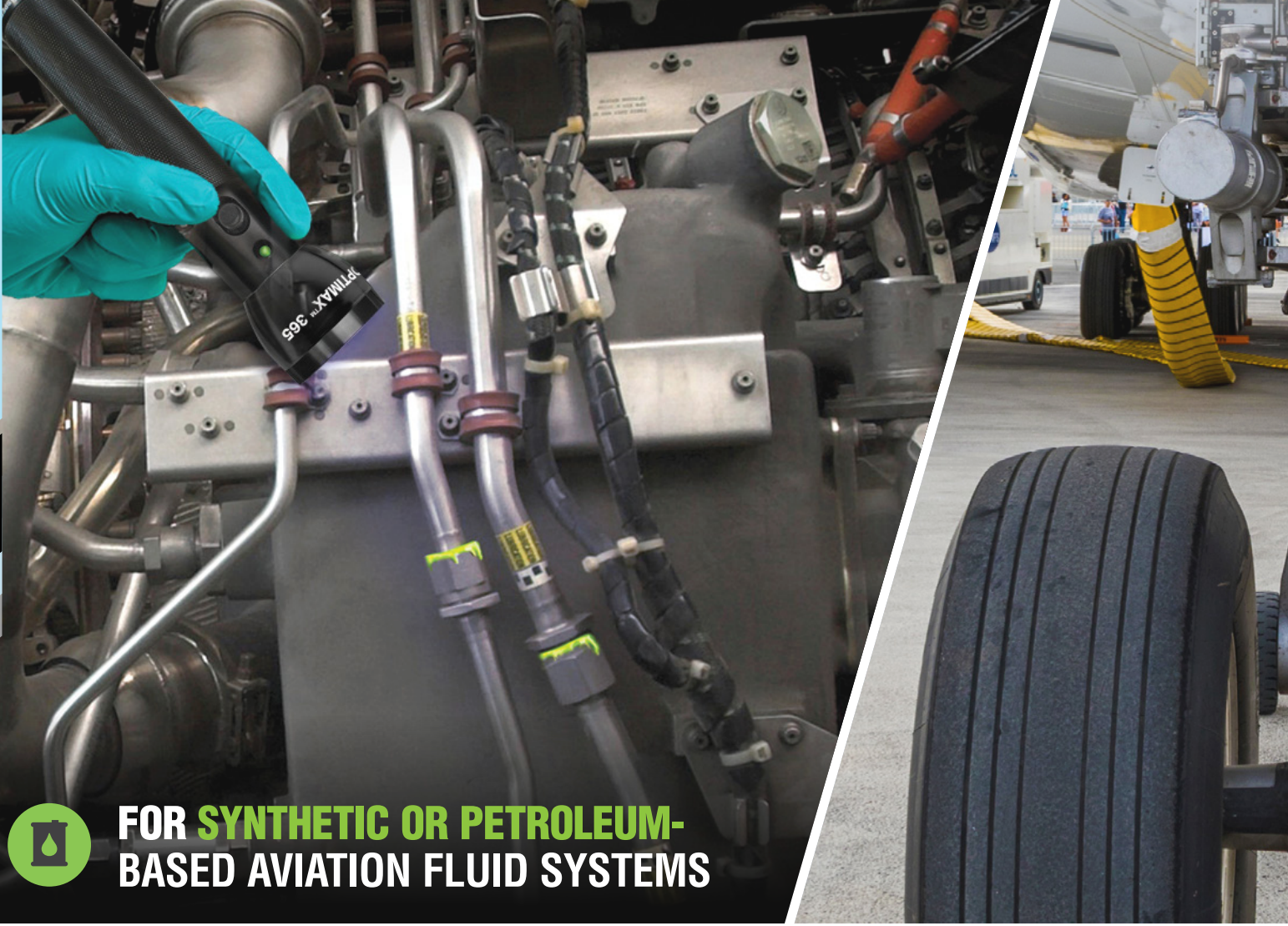


**BROAD BEAM**  
Detect multiple leak sites at once. Inspect large hydraulic systems with ease.



**MULTI-LED**  
3 powerful, high-intensity LEDs for detecting leak sites. 1 white light LED for general inspection.





**FOR SYNTHETIC OR PETROLEUM-BASED AVIATION FLUID SYSTEMS**

**AERO-BRITE™**

Universal Fluorescent Leak Detection Dye

**AD-8609**



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.

- 0008 8 oz (237 ml) twin-neck bottle
- 0016 16 oz (473 ml) twin-neck bottle
- 0032 32 oz (946 ml) twin-neck bottle
- 0100 1 gal (4 L) container

**Meets Mil Spec MIL-PRF-81298E, Type III For Aircraft Fuel Systems**

Also available:  
**SP-8609-0100 (NSN: 6820-01-386-8609)**  
**Fluorescent Leak Detection Dye for Aircraft Fuel Systems.** Can also be used to locate hydraulic and engine oil leaks. Supplied in 1 gallon (4 L) container.



**SUGGESTED DILUTION RATIOS**

Host Fluid	Dye Amount
Jet Fuel (static)	2 oz (60 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 ml) dye per 4 gals (15 L)
Engine Oil	0.25 oz (7 ml) dye per 1 gal (4 L)



**IDEAL FOR PINPOINTING  
LEAKS IN FUEL, LUBRICATION  
AND HYDRAULIC SYSTEMS.**



**FAST**

The quickest way to inspect for leaks in aircraft fuel, lubrication, and hydraulic systems.



**COST EFFECTIVE**

Super-concentrated. Use less per dose!



**SAFE**

Specially formulated to accommodate the host fluid. Will not damage the fluid properties or any of the system components.



**VERSATILE**

Inspect the entire system under virtually all operating conditions. Ideal for both in-flight and static testing.

**AERO-BRITE™ COMPLETE**  
Fluorescent Leak Detection Kit

ALK-365



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

- › **OPX-365 OPTIMAX™** 365 super-high intensity, cordless, rechargeable UV LED leak detection flashlight
- › **AD-8609-0008** 8 oz (237 ml) twin-neck bottle of Aero-Brite™ universal fluorescent dye for aircraft fluid systems



UP TO  
**25 ft (8m)**  
Inspection  
Range



**NiMH**  
Rechargeable  
Battery



Smart AC/DC  
Chargers



UV-Absorbing  
Glasses



**GLO-AWAY™**  
Plus +



Padded  
Carrying Case



Belt  
Holster



HEAR WHAT YOU NEED TO HEAR!



PRECISION ENGINEERED



AUTOMATIC GAIN CONTROL



# Marksman™ II

ULTRASONIC DIAGNOSTIC TOOL

HEAR WHAT YOU NEED TO HEAR!

## MARKSMAN™ II Ultrasonic Diagnostic Tool

### MDE-2000LNC

Features advanced heterodyne circuitry and “Sound Signature Technology” to covert and amplify inaudible ultrasonic sounds into audible “natural” sounds. Provides quick diagnosis of leaks and defects before they become major breakdowns!

- › 5-LED signal-intensity indicator and audible alarm easily locate the exact problem source
- › Internal Noise Control (INC) ensures tool is unaffected by ambient noise. Ideal for use in extremely noisy environments.
- › Self-adjusting Automatic Gain Control (AGC) circuitry enhances sensitivity and simplifies operation
- › Laser pointer to help pinpoint the source of pressurized leaks
- › Adjustable touch-control sensitivity pad and power switch
- › Quickly detects compressed air, natural gas, propane tank, vacuum, steam, refrigerant and other pressurized leaks
- › Finds gear and bearing wear in internal components and electric motors
- › Precision-engineered air probe helps isolate leak sources in cramped areas
- › Comes complete with ultrasonic receiver, ultrasonic emitter, air probe, contact probe, noise-cancelling headphones, (2) D cell batteries and carrying case



### APPLICATIONS INCLUDE:

- › Aircraft Pneumatic Systems
- › Fuel System Pressurization Testing
- › Oxygen Line & Valves
- › Internal Leaks in Hydraulic Valves & Actuators
- › Fuel Cell Testing
- › Identifying Cavitation in Hydraulic Pumps
- › Arcing in Wave Guides
- › Cabin Pressure Testing
- › Pilot Static System
- › Aircraft Health Checks
- › Emergency Evacuation Slides
- › Electrical Discharge
- › Air Ducts & Air Conditioning Systems
- › Tire Pressure Retention
- › Cabin & Cockpit Window & Door Seals



OUR SAMPLE TEST KIT HELPS YOU SELECT THE **CORRECT** LEAK DETECTION DYE AND LAMP TO MEET YOUR **SPECIFIC REQUIREMENTS**.

## Mail-In Kit to Get an Expert Analysis Directly From Spectroline®

Let Spectroline® test your oil sample and provide a report with a dye, dilution ratio and lamp recommendation. Upon receipt, our expert chemists will test your oil sample and provide a report with dye, dilution ratio and leak detection lamp recommendations. Makes sample collection and shipping fast and easy!

### DYE SELECTION/OIL Sample Analysis Kit

**AK-1000**

Contains everything needed to collect an oil sample and send it to us for a professional analysis. Makes sample collection and shipping fast and easy!

- › Oil sample analysis form, 8 oz (237 ml) sample bottle with lid, absorbent cloth, plastic bag with tie, pressure-sensitive tape, box-sealing tape, shipping label, packaging instructions and cardboard shipping box.



**NEW & IMPROVED!**



**CONCENTRATED  
FORMULA**

Stronger formula makes it easier to remove the toughest dye stains.

### GLO-AWAY® PLUS Fluorescent Dye Cleaner

**128484**

- › 2 oz (60 ml) spray bottle
- › New formulation that works to dissolve fluorescent dye from the leak site.
- › Requires less application & less time removing left over dye.



# SPECTRONICS CORPORATION

Innovating for Today ✦ Imagining for Tomorrow

## INVENTORS & PIONEERS

### Since 1955

For more than 60 years, Spectronics Corporation has engineered the highest-quality, premium performance leak detection dyes and products.

As the **inventors of ultraviolet fluorescent leak detection**, we take pride in crafting the most superior leak detection dyes in the industry.

Spectronics Corporation is a family owned company with three generations of experience in delivering award-winning professional service and the industry's most powerful leak detection dyes and lamps.



Spectronics Headquarters | Westbury, New York



#### PLACE AN ORDER:

Orders@Spectroline.com



#### GET SUPPORT:

CustomerService@Spectroline.com  
or call (516) 333-4840



Spectroline.com

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

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