SPECTROLINE®

LEAK DETECTION

FLUORESCENT LEAK DETECTION AND DIAGNOSTIC TOOLS

FOR INDUSTRIAL SYSTEMS

SPECTRONICS CORPORATION

ISO 9001:2015 CERTIFIED COMPANY

FLUORESCENT LEAK DETECTION TOOLS

WORKING FOR YOU 24/7 – ONCE IN, ALWAYS ON.

Step 1

ADD DYE

Add a small amount of dye to the system & let it circulate

Step 2

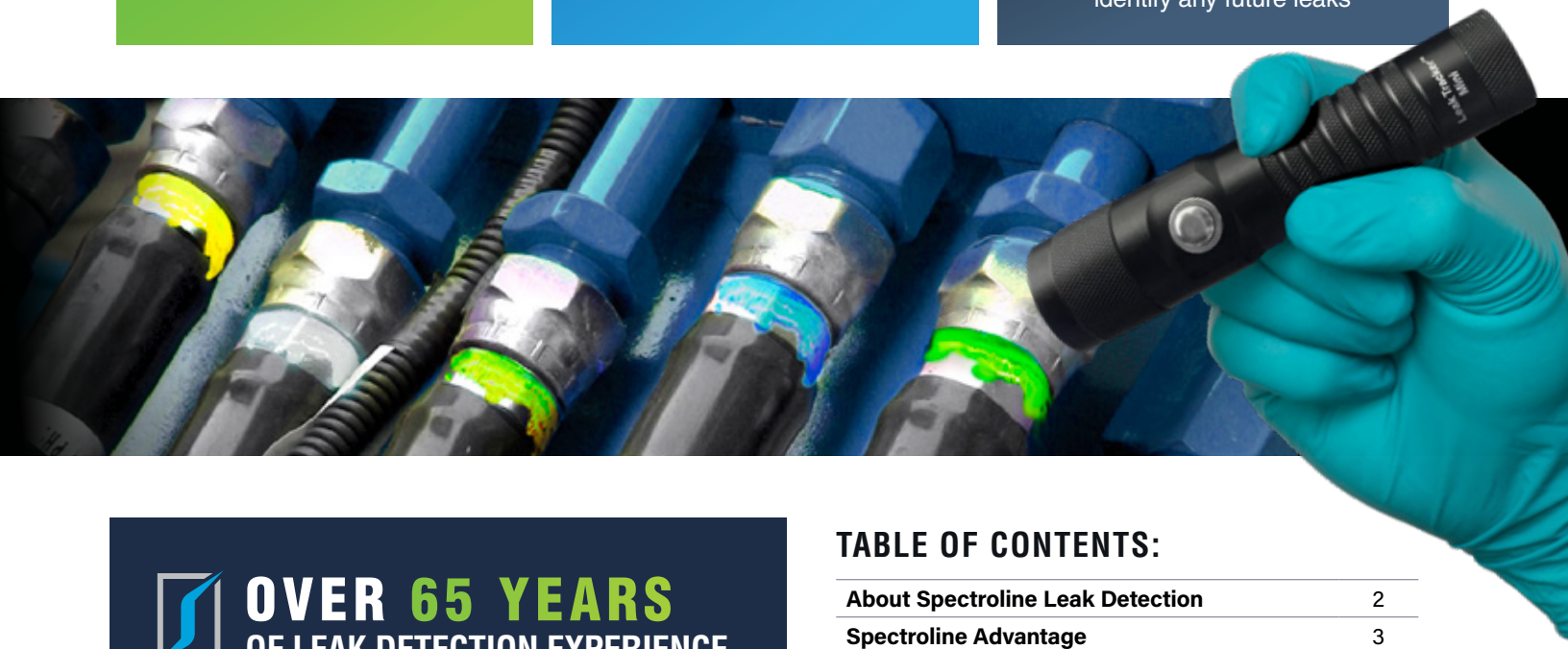
SCAN SYSTEM

Scan system with a Spectroline leak detection lamp and see any leaks **glow brightly**

24/7

CONTINUOUSLY CIRCULATING

Working for you around the clock, **24/7** to quickly identify any future leaks



OVER 65 YEARS OF LEAK DETECTION EXPERIENCE

Spectronics Corporation has engineered the highest-quality, premium performance leak detection dyes and products since 1955.

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

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

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THE SPECTROLINE® ADVANTAGE

Scan/Click to learn more

It's important to choose a brand that produces pure, safe, highly concentrated dyes and quality inspection lamps to get the most benefit from the technology.

HIGHLY CONCENTRATED

Our dyes are engineered to be **fully-miscible**.

They are, by definition, non-particulate dyes which are filtered down to 2 microns to assure that any stray particles are captured.

CO-SOLVENT FREE

Non-particulate formula, **doesn't change** the precise characteristics of the host fluid.

Lubricity, viscosity, and other properties of the original host fluid are **completely unaffected when dye is added to the system**.

SEVERAL DISTINCT COLORS

Color-code to diagnose leaks across multiple systems.

DETECT LEAKS AT A DISTANCE

Leak detection range of **25 feet** (8 m) or more.

NSF CERTIFIED

NSF certified to meet **non-contact food-grade requirements**.

EXCLUSIVE FORMULA

From the inventors & most trusted name in fluorescent leak detection.

FINDING LEAKS AT THE SPEED OF LIGHT

MOBILE HYDRAULIC EQUIPMENT

- Cranes
- Bulldozers
- Plows
- Trailers
- Log Stump/Splitters
- Log Loaders
- Skidders
- Vehicle Transport

STATIONARY HYDRAULIC EQUIPMENT

- Metal Fabrication Equipment
- Presses/Shears/Benders
- Dock Levelers
- Vehicle Lifts

FACILITY MAINTENANCE

- Injection Molding
- Stamping
- Power Plants

OEM ON-LINE QUALITY CONTROL

- Engines/Parts
- Hydraulic Cylinders
- Residual Fluids on Products

ULTRA DYES

UV FLUORESCENT DYES FOR FLUID SYSTEMS

OIL-GLO® ULTRA
UV FLUORESCENT DYES

NSF

OIL-BASED DYES MEET NSF CATEGORY CODES **HTX2 AND HX-2**

SCAN OR CLICK FOR VIDEO

For Synthetic and Petroleum-Based Fluid Systems. Available in several distinct colors.

- Works in any closed-loop circulatory systems where oil-based fluids are used.
- Engineered to work with any host fluid without damaging the fluid's properties or any of the system's components.
- Specially made for lubricant and hydraulic leaks.
- Some applications include: facility maintenance and machinery, mobile hydraulic equipment, stationary hydraulic equipment, OEM on-line quality control.
- Color code to detect leaks across multiple systems.

AVAILABLE IN MULTIPLE COLORS

	APPLICATION	YELLOW/GREEN	GREEN	YELLOW	WHITE	BLUE
Shown Under **UV LIGHT 365 nm**	Light Hydraulic Fluid					
	Dark Hydraulic Fluid					
	Compressor Oil					
	Engine Oil					
	Gearbox Oil					
Shown Under **VIOLET LIGHT 400 nm**	Light Hydraulic Fluid					
	Dark Hydraulic Fluid					
	Compressor Oil					
	Engine Oil					
	Gearbox Oil					

GAS-GLO™ ULTRA
UV FLUORESCENT DYE

For Gasoline and Diesel Fuel Systems. Fluoresces Yellow.

- Perfect for preventive maintenance and reducing equipment downtime.
- Highly concentrated. Contains more active ingredients per dose than competitors.
- Ideal for off-road, heavy-duty, or agricultural equipment. Also works in mining equipment, generators, marine, and railroad engines.

YELLOW

WATER-GLO® ULTRA
UV FLUORESCENT DYES

NSF

WATER-BASED DYES MEET NSF CATEGORY CODES **G7, GX & HTX2**

SCAN OR CLICK FOR VIDEO

For Water and Water/Glycol Fluid-Based Systems. Available in two colors.

- Quickly pinpoint the exact source of all water leaks including tiny, evaporated and condensation-covered leaks.
- Works in both **static and circulating** systems.
- Can be used as a diagnostic tool for testing seams, welds, seals, fittings and flow-rate measuring.
- Ideal for heat transfer fluid systems.
- Some applications include: boilers, heaters/ pumps, sprinkler systems, storage tanks.

BLUE

GREEN

FLUORESCES EVEN WHEN DRY WON'T CHANGE COLOR OF THE HOST FLUID

UNIVERSAL AND MOST ECONOMICAL

AERO-BRITE™ ULTRA
UV FLUORESCENT DYE

For Synthetic or Petroleum-Based Aviation Fluid Systems. Fluoresces Green.

- Allows inspection of the entire system under virtually all operating conditions.
- Can be used for commercial and military aircraft fuel & fluid systems.
- Ideal for both in-flight and static testing.
- Systems include: aircraft fuel systems, turbine engines, hydraulic systems, reciprocating engine lubrication systems.

GREEN

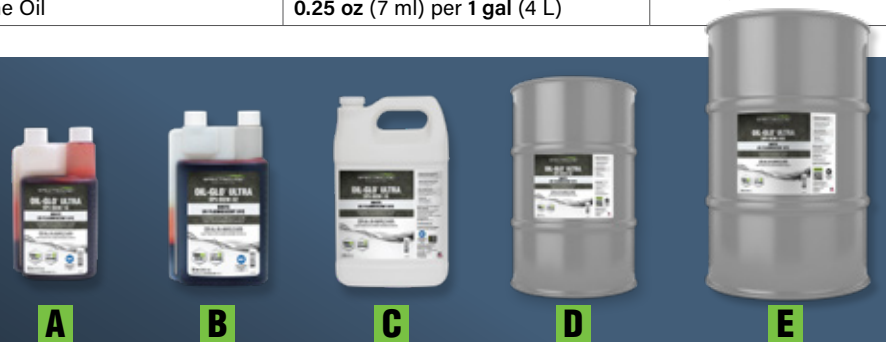
Also Available:
SP-8609-0100 **(NSN:6820-01-386-8609)**

Meets ALL requirements of Military Spec MIL-PRF-81298E, Type III For Aircraft Fuel Systems

PRODUCT NO./DYE COLOR		APPLICATION	SUGGESTED APPLICATION DILUTION RATIO:	LAMP TYPE
OIL-GLO® ULTRA				
SPI-OGY-16 SPI-OGY-32 SPI-OGY-1G SPI-OGW-16 SPI-OGW-32 SPI-OGW-1G SPI-OGB-16 SPI-OGB-32 SPI-OGB-1G	YELLOW WHITE BLUE	**SYNTHETIC OR PETROLEUM-BASED FLUID SYSTEMS:** Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil	**1 oz** (30 ml) per **8 gal** (30 L) **1 oz** (30 ml) per **4 gal** (15 L) **1 oz** (30 ml) per **4 gal** (15 L) **1 oz** (30 ml) per **3 gal** (11 L) **1 oz** (30 ml) per **1 gal** (4 L)	UV light/UV-absorbing
SPI-OGG-16 SPI-OGG-32 SPI-OGG-1G	GREEN	Light-colored hydraulic fluid Dark/intensely blue hydraulic & lubrication fluids Compressor oil Engine oil Gearbox oil	**1 oz** (30 ml) per **8 gal** (30 L) **1 oz** (30 ml) per **4 gal** (15 L) **1 oz** (30 ml) per **4 gal** (15 L) **1 oz** (30 ml) per **3 gal** (11 L) **1 oz** (30 ml) per **1 gal** (4 L)	UV light/UV-absorbing Violet light/fluorescence-enhancing
SPI-OGYG-16 SPI-OGYG-32 SPI-OGYG-1G	YELLOW/GREEN	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 gal** (30 L) **1 oz** (30 ml) per **4 gal** (15 L) **1 oz** (30 ml) per **4 gal** (15 L) **1 oz** (30 ml) per **3 gal** (11 L) **1 oz** (30 ml) per **1 gal** (4 L) **1 oz** (30 ml) per **12-18 gal** (45-68 L)	UV light/UV-absorbing Violet light/fluorescence-enhancing
GAS-GLO™ ULTRA				
SPI-GGY-16 SPI-GGY-1G	YELLOW	**GASOLINE AND DIESEL FUEL SYSTEMS**	**1 oz** (30 ml) per **10 gal** (38 L)	UV light/UV-absorbing
WATER-GLO® ULTRA				
SPI-WGB-16 † SPI-WGB-32 † † Appears clear. Will not discolor host fluid.	BLUE	**WATER AND WATER/ GLYCOL-BASED FLUID SYSTEMS**	**1 pt** (473 ml) per **500 gal** (1,893 L) water	UV light/UV-absorbing
SPI-WGG-16 SPI-WGG-32 SPI-WGG-1G	GREEN	**WATER AND WATER/ GLYCOL-BASED FLUID SYSTEMS**	1 pt (473 ml) per **1,000 gal** (3,785 L) water	UV light/UV-absorbing Violet light/fluorescence-enhancing
AERO-BRITE™ ULTRA				
SPI-ABG-16 SPI-ABG-32 SPI-ABG-1G SP-8609-0100 (NSN:6820-01-386-8609)	GREEN	**SYNTHETIC OR PETROLEUM-BASED AVIATION FLUID SYSTEMS:** Jet Fuel (static) Jet Fuel (in-flight) Hydraulic Fluid Engine Oil	**2 oz** (60 ml) per **100 gal** (379 L) **1.6 oz** (47 ml) per **100 gal** (379 L) **0.25 oz** (7 ml) per **4 gal** (15 L) **0.25 oz** (7 ml) per **1 gal** (4 L)	UV light/UV-absorbing Violet light/fluorescence-enhancing

SIZE CHART

- **A** **16 oz** (473 ml) **twin-neck**
- **B** **32 oz** (946 ml) **twin-neck**
- **C** **1 gal** (4 l) **container**
- **D** **5 gal** (19 l) **drum**
- **E** **55 gal** (209 L) **drum**



LEAK DETECTION KITS

FOR ALL OIL-BASED FLUID SYSTEMS

VIOLET LIGHT LED

OIL-GLO® ULTRA COMPLETE

Fluorescent Leak Detection Kit

Great entry kit specifically designed to find leaks in oil-based fluid systems.

SPI-VLOGYG

- **SPI-VL** Violet light LED, battery operated leak detection lamp
- **SPI-OGYG-8** Patented 8 oz (237 ml) twin-neck bottle of concentrated oil dye (glows yellow-green) treats up to 64 gallons (242 L) of fluid
- **RP-UVS-40** Fluorescence-enhancing glasses
- **RP-GA-2** GLO-AWAY™ PLUS is specially formulated to remove fluorescent leak detection dye within seconds

VIOLET LIGHT LED | 3x AAA Batteries Included | Fluorescence Enhancing *(Optional)* | GLO-AWAY™ Plus + | Carrying Case | Dye Treatment Labels

UV LIGHT LED

LeakTracker™ COMPLETE

Fluorescent Leak Detection Kit

Ideal for all industrial fluid system applications. SPI-LTM UV LED light works with all Spectroline® dyes.

SPI-LTMOGYG

New

- **SPI-LTM** LeakTracker™ MINI high-intensity, battery operated UV LED leak detection lamp
- **SPI-OGYG-8** Patented 8 oz (237 ml) twin-neck bottle of concentrated oil dye (glows yellow-green) treats up to 64 gallons (242 L) of fluid
- **RP-UVS-30** UV-absorbing glasses
- **RP-GA-2** GLO-AWAY™ PLUS is specially formulated to remove fluorescent leak detection dye within seconds

UV LED | 3x AAA Batteries Included | UV-Absorbing Glasses | GLO-AWAY™ Plus + | Carrying Case | Dye Treatment Labels

NOTE: **SPI-LTOGYG** is available while supplies last

FOR WATER OR WATER/GLYCOL-BASED FLUID SYSTEMS

VIOLET LIGHT LED

WATER-GLO® ULTRA COMPLETE

Fluorescent Leak Detection Kit

The most complete leak detection kit for water and water/glycol-based fluid systems.

SPI-VLWGG

- **SPI-VL** Violet light LED, battery operated leak detection lamp
- **SPI-WGG-8** Patented 8 oz (237 ml) twin-neck bottle of concentrated water dye (glows green) treats up to 500 gallons (1,893 L) of fluid
- **RP-UVS-40** Fluorescence-enhancing glasses
- **RP-GA-2** GLO-AWAY™ PLUS is specially formulated to remove fluorescent leak detection dye within seconds

VIOLET LIGHT LED | 3x AAA Batteries Included | Fluorescence Enhancing *(Optional)* | GLO-AWAY™ Plus + | Carrying Case | Dye Treatment Labels

FLUORESCENT DYE CLEANER

GLO-AWAY™ PLUS

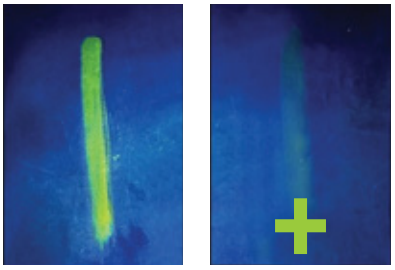
Fluorescent Dye Cleaner

RP-GA-2

- 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

CONCENTRATED FORMULA

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

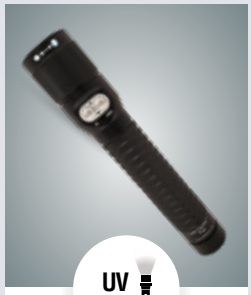


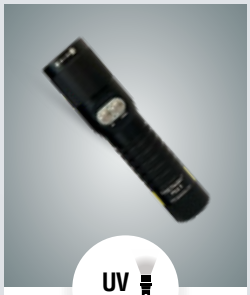
Other Dye Cleaners | GLO-AWAY™ PLUS

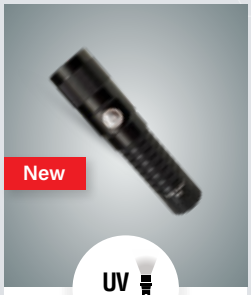
LAMPS

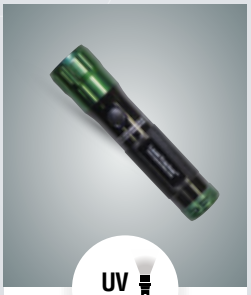
LAMP COMPARISON CHART

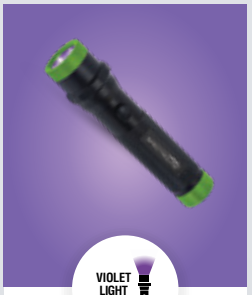
Optimize Productivity. Find leaks fast.











Part Number	LeakTracker™ PLUS SPI-LTP	LeakTracker™ PLUS Rechargeable SPI-LTPR	LeakTracker™ MINI SPI-LTM	LeakTracker™ SPI-LT*	Spectroline® Violet Light SPI-VL-CS
Fluorescent Dye					
Power Requirement	3 “C” batteries	1 LI-ION battery	3 “AAA” batteries	3 “AAA” batteries	3 “AAA” batteries
Charge Time	—	7 hours	—	—	—
Light Range	365 nm	365 nm	365 nm	365 nm	400 nm
Laser Pointer	Laser Pointer	Laser Pointer	—	—	—
Adjustable Focus Lens	Adjustable Focus Lens	Adjustable Focus Lens	—	—	—
Inspection Range*	25 ft (8 m)	25 ft (8 m)	25 ft (8 m)	20 ft (6 m)	25 ft (8 m)
Continuous Runtime	9 hrs	9 hrs	6 hrs	4 hrs	5 hrs
IP Rating	IP68	IP68	IP68	—	—
Eyewear	UV-absorbing (required)	UV-absorbing (required)	UV-absorbing (required)	UV-absorbing (required)	Fluorescence enhancing (optional)
Length	8.80 in (22.35 cm)	6.56 in (16.7 cm)	5.2 in (13.2 cm)	5.5 in (14 cm)	5.9 in (15 cm)

*Depending on room light levels, as measured from light source to leak site

*Available while supplies last

SPECTROLINE®

Violet LED Leak Detection Lamp

Battery-operated, 400 nm violet light LED Leak Detection lamp that is both economical and powerful. Features a pre-focused beam to optimize fluorescent response.

VIOLET LIGHT LED | UP TO 25 ft (8 m) Inspection Range | 3x AAA Batteries Included | 5h Runtime | Fluorescence Enhancing *(Optional)*

SPI-VL-CS

- 3 AAA batteries
- Anti-roll cuff
- Fluorescence enhancing glasses

Full-color clamshell packaging

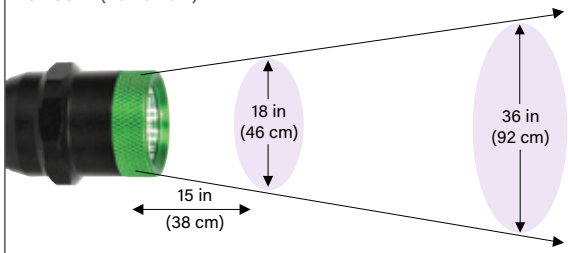
SPECIFICATIONS

Light Source:	Violet Light LED
Lamp Style:	Cordless Lamp
Lamp Head Diameter:	1.25 in (3.2 cm)
Length:	5.9 in (15 cm)
Weight:	4.8 oz (0.14 kg)
Power Source:	3 "AAA" batteries
Run Time:	5 hours (continuous)

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

Total Coverage Area

18 - 36 in (46 - 92 cm)



Leak Detection Range

25 feet (8 m) or more

LeakTracker™ MINI

UV LED Leak Detection Lamp

The durable design, long-lasting UV technology, and IP68-rating make it ideal to withstand years of daily use, while the compact design allows it to search for leaks in tight spaces.

NEW!

UV LED | UP TO 25 ft (8 m) Inspection Range | 3x AAA Batteries Included | 6h Runtime | UV-Absorbing Glasses | IP68 Rating

SPI-LTM

- Compact size
- Rugged anodized aluminium lamp body
- IP 68 rating
- UV absorbing glasses
- Lanyard
- Small carrying case

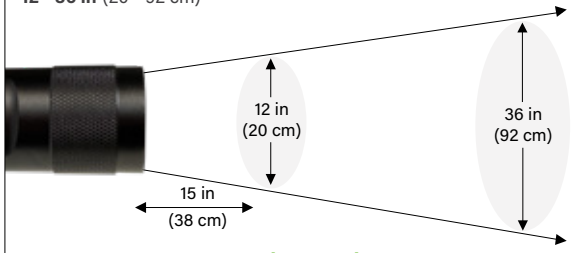
SPECIFICATIONS

Light Source:	UV LED (365 nm)
Lamp Style:	Cordless Lamp
Lamp Head Diameter:	1.3 in (3.3 cm)
Length:	5.2 in (13.2 cm)
Weight:	0.24 lbs (0.11 kg)
Power Source:	3 "AAA" batteries
Run Time:	6 hours (continuous)

NOTE: **SPI-LT** is available while supplies last

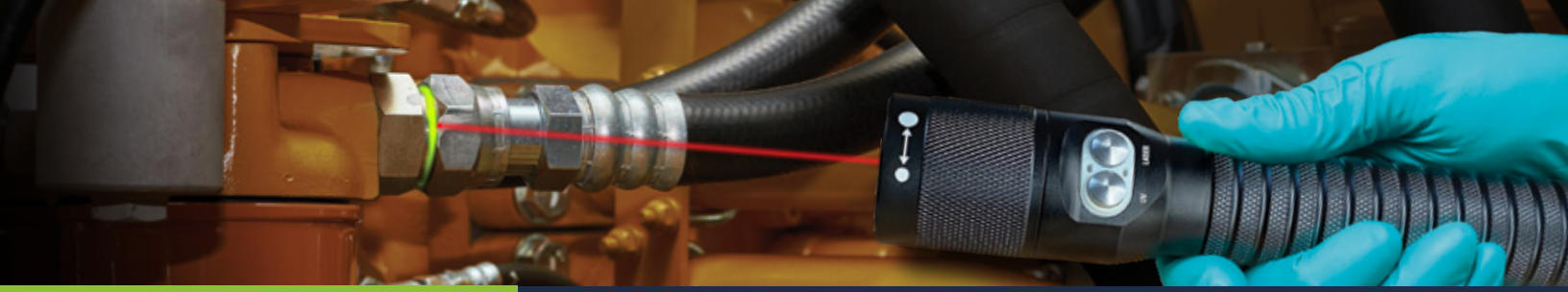
Total Coverage Area

12 - 36 in (20 - 92 cm)



Leak Detection Range

25 feet (8 m) or more



PREMIUM VALUE BATTERY-OPERATED UNIVERSAL UV LED

UV LED

UP TO 25 ft (8 m) Inspection Range

3x C Batteries Included

9 h Runtime

UV-Absorbing Glasses

IP68 Rating

Laser Pointer

LeakTracker™ PLUS

UV LED Leak Detection Lamp

Superior quality, durable cordless inspection flashlight with advanced features like an adjustable focus, a longer runtime, and laser pointer for extreme accuracy in pinpointing leaks.

SPI-LTP

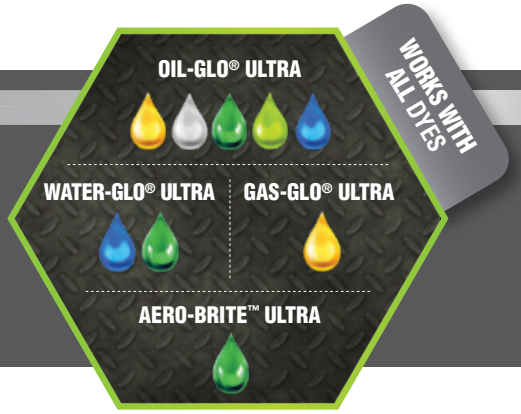
- Adjustable focus
- Laser pointer (Class II laser)
- Rugged anodized aluminium lamp body
- IP 68 rating
- Small carrying case

Adjustable Focus Lens:

2 in 1: Narrow focus for a powerful beam of light to fluoresce the smallest leaks. Wide focus for larger scans and to reduce reflections.

SPECIFICATIONS

Light Source:	UV LED	**Weight:**	4.6 oz (0.13 kg)
Lamp Style:	Cordless Lamp	**Weight w/Battery:**	1.10 lbs (0.50 kg)
Lamp Head Diameter:	1.62 in (4.11 cm)	**Power Source:**	3 "C" Batteries
Length:	8.80 in (22.35 cm)	**Run Time:**	9 hours (continuous)



PREMIUM VALUE
RECHARGEABLE
UNIVERSAL UV LED

UV LED

UP TO 25 ft (8 m)
Inspection Range

LI-ION Rechargeable Battery

9 h
Runtime

UV-Absorbing Glasses

IP68
IP68 Rating

Laser Pointer

LeakTracker™ PLUS Rechargeable

UV LED Leak Detection Lamp

High-quality, durable cordless inspection flashlight. The LI-ION battery included charges inside the flashlight to recharge with ease and convenience when on a work site.

SPI-LTPR

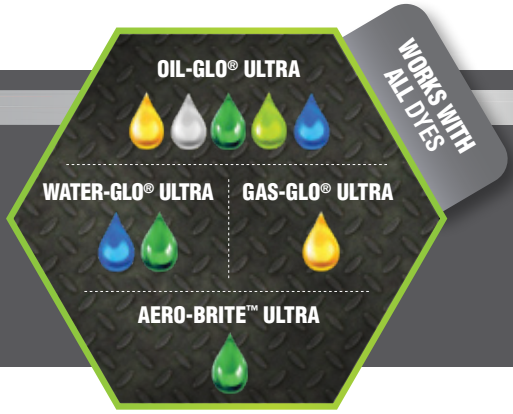
- Adjustable focus
- Laser pointer (Class II laser)
- Rugged anodized aluminium lamp body
- IP 68 rating
- Small carrying case

Adjustable Focus Lens:

2 in 1: Narrow focus for a powerful beam of light to fluoresce the smallest leaks. Wide focus for larger scans and to reduce reflections.

SPECIFICATIONS

Light Source:	UV LED (365 nm)	**Weight:**	0.50 lbs (0.23 kg)
Lamp Style:	Cordless Lamp	**Weight w/Battery:**	0.70 lbs (0.32 kg)
Lamp Head Diameter:	1.62 in (4.11 cm)	**Power Source:**	(1) proprietary LI-ION battery
Length:	6.56 in (16.7 cm)	**Run Time:**	9 hours (continuous)
		Charge Time:	7 hours for full charge



DIAGNOSTIC

HEAR WHAT YOU NEED TO HEAR!

AUTOMATIC GAIN CONTROL

Marksman™ II
ULTRASONIC DIAGNOSTIC TOOL

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

SPI-MDT

SCAN OR CLICK FOR VIDEO

- 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
- Unique ultrasonic emitter helps locate faulty seals, gaskets and weather stripping in doors, windows, ductwork and other non-pressurized enclosures

COMES COMPLETE WITH:

- Ultrasonic Receiver
- Ultrasonic Emitter
- Air Probe
- Contact Probe
- Noise-canceling Headphones
- Carrying Case
- Batteries Included

IDEAL FOR DETECTING:

- Compressed Air Leaks
- Natural Gas and Propane Leaks
- Pressure and Vacuum Leaks
- Gear and Bearing Wear
- Electrical Discharge
- Gas and Liquid Turbulence
- Refrigerant Leaks
- Seal and Gas Integrity

... and many more!

Q&A

GOT QUESTIONS?

Q: **How do I use fluorescent leak detection dye?**

A: Add our patented dye to the suspect system, then let the dye circulate. Once the dye has permeated the system, scan for leaks with one of our high-intensity leak detection lamps.

All leak sites will glow brightly with escaping fluorescent dye.

Q: **Why is Spectroline trusted by more OEMs than any other brand?**

A: Spectronics Corporation invented fluorescent leak detection in 1955. Today, we are the world's leading manufacturer of ultraviolet equipment and fluorescent leak detection dyes and system additives.

Our OEM-grade fluorescent dyes are co-solvent free, NSF certified, and can safely remain indefinitely within any oil-based or water-based fluid system.

Q: **Are the dyes system-safe?**

A: Spectroline® fluorescent leak detection dye is engineered to be fully-miscible. It is, by definition, a non-particulate and is filtered down to 2 microns.

This ensures the fluorescent dye doesn't change the precise characteristics of the host fluid. Lubricity, viscosity, and other properties of the original host fluid are completely unaffected when dye is added to the system.

Spectroline fluorescent dyes are also NSF-certified, meaning they are not harmful to the environment, whatsoever.

Q: **Why is dye concentration important?**

A: Dye fluorescence is dependent on the **ratio of fluorescent material to carrier oil**. Poor performing dyes typically have low levels of fluorescent material. Simply put, poor dyes lack the concentration necessary to provide an effective fluorescent response.

Spectroline dyes are **concentrated** and able to fluoresce all leak areas brightly. This means Spectroline dyes are **more economical** because less dye is used per application.

Q: **How long does it take to find a leak?**

A: Depending on the size of the systems, it may take minutes to a few hours for the dye to circulate completely.

For preventative maintenance, add Spectroline dye long before you have a problem. A technician can perform an inspection within a matter of seconds if the dye has already had time to fully circulate. Works effectively in any closed loop or circulatory system.

Q: **Which fluorescent dye color do I select?**

A: Spectroline offers a variety of dye colors that are engineered to best suit specific host fluids and applications.

Use different colors to detect leaks across multiple systems. Color-code each system to ensure leaks are found quickly and with immediate certainty.

SPECTROLINE®

LEAK DETECTION

MOBILE HYDRAULIC EQUIPMENT

- Construction/Paving
- Agricultural
- Hydraulic Lifts

STATIONARY HYDRAULIC EQUIPMENT

- Metal Fabrication Equipment
- Presses/Shears/Benders
- Dock Levelers
- Vehicle Lifts

FACILITY MAINTENANCE

- Injection Molding
- Stamping
- Power Plants

OEM ON-LINE QUALITY CONTROL

- Engines/Parts
- Hydraulic Cylinders
- Residual Fluids on Products

Trusted for Over 65 Years

KOMATSU Kubota Bobcat Cummins CNH INDUSTRIAL Parker bp JOHN DEERE EATON GP Georgia-Pacific GE

SPECTRONICS CORPORATION

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(516) 333.4840 | **Orders**@Spectroline.com
www.Spectroline.com

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