

DESIGNED, BUILT, AND SUPPORTED IN THE USA

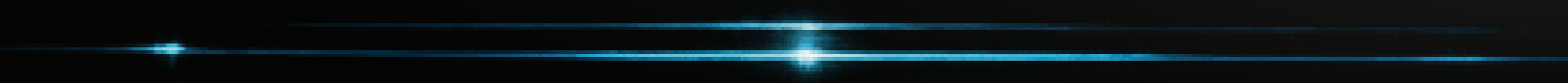
**LIGHTRAY**TM



LR2 LR3 LR+ LRC LRS LRM

REVOLUTIONIZING UV PIPE LINING

1779 Chessie Lane, Ottawa IL 61350
waterlinerenewal.com
1-847-457-1810



PULL IN PLACE

LIGHTRAY® LR2 SYSTEM

2-3" SPOT REPAIRS | SAME-DAY UPSSELL



- Repairs 2"-3" drain pipes
- Pull-in-place UV system
- Cure times under 10 minutes
- Flexible packer navigates bends and p-traps
- Pre-impregnated, non-VOC liners
- Training and support included



THIS SYSTEM IS A SIMPLE UPSSELL FOR PLUMBERS AND DRAIN CLEANERS MAKING A HOUSE CALL. THE REPAIR IS PERFORMED IN MINUTES DURING THE SAME SERVICE CALL.

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LIGHTRAY® LR3 SYSTEM

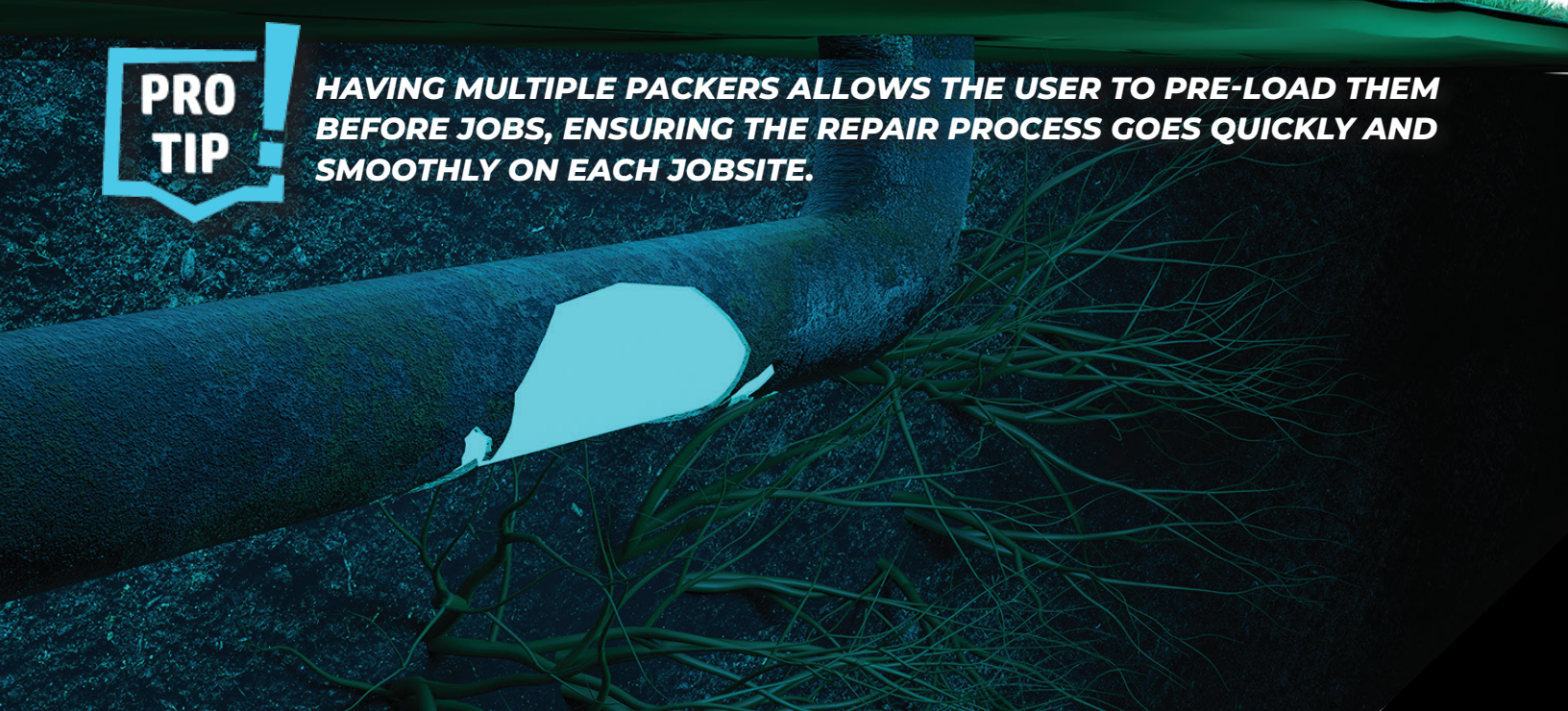
4-12" PUSH OR PULL SPOT REPAIR

- Push or pull-in-place operation
- Repairs 4"-12" pipe, including transitions
- 5', 10', and 20' packer options
- Under-10-minute cure times
- Pre-loaded liners, no mixing required
- Easily navigates 45° and 90° bends



**PRO
TIP**

HAVING MULTIPLE PACKERS ALLOWS THE USER TO PRE-LOAD THEM BEFORE JOBS, ENSURING THE REPAIR PROCESS GOES QUICKLY AND SMOOTHLY ON EACH JOBSITE.



LIGHTRAY® LR+ SYSTEM

ONE SYSTEM. TWO CAPABILITIES.



- **One system for both spot repairs and inversion lining**
- Compact, modular design reaches basements and tight spaces
- No fragile light head to cool, protect, or babysit
- Fewer components mean fewer failure points in the field
- No extra cooling equipment or complicated setup
- Faster deployment. Faster cure. Faster back in service
- Built tough for real jobsite conditions

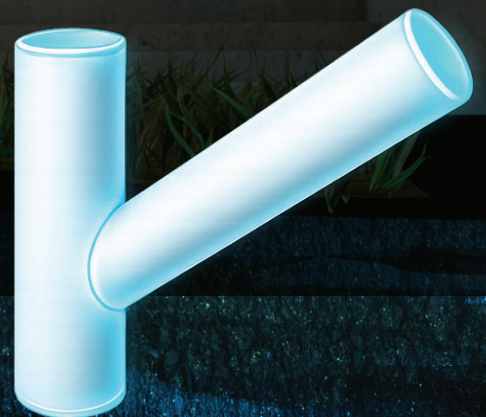
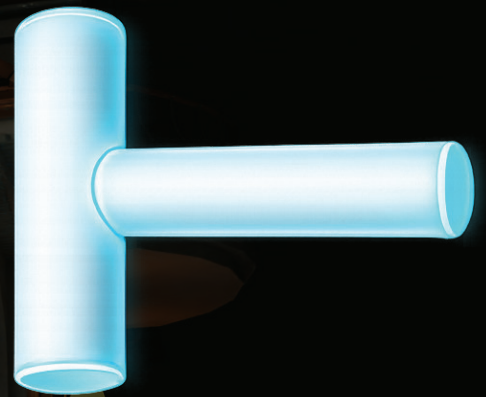
**PRO
TIP**

ONCE THE CASTING PROCESS STARTS, THE Y-CONNECTOR CAN BE CAPPED OFF AND THE INVERSION DRUM DISCONNECTED TO RELOAD FOR THE NEXT JOB.

LIGHTRAY[®] LRC SYSTEM

LATERAL BRANCH LINE CONNECTIONS

- **Designed specifically for lateral connection repairs, including vertical stacks and horizontal runs**
- Restores T and Wye configurations from 3"–6", including common residential transitions
- Repairs connections up to 75 ft away for extended reach
- Navigates through 45° and 90° bends in 4" and 6" lines
- UV liner installs in both the main and lateral for a structural, watertight seal
- Push-rod positioning provides precise packer placement at the repair point
- Ideal for apartments, multi-unit housing, and commercial facilities



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LIGHTRAY[®] LRS SYSTEM

LATERAL TO MAIN JUNCTION REPAIR

- UV version of LMK Shorty T-Liner
- Casts full mainline wrap and up to 20-feet up the lateral
- 8"-12" mainline, 4"-6" lateral
- Insignia™ Hydrophilic O-rings, End Seals and Hydrohat



THE LAUNCHERS COME IN PAIRS TO KEEP THE TEAM MOVING DURING MULTIPLE INSTALLATIONS. LOAD THE SECOND LAUNCHER DURING THE CASTING PROCESS FOR THE FIRST LINER AND REPEAT THE PROCESS AS THE CREW MOVES FROM HOUSE TO HOUSE.

LIGHTRAY[®] LRM SYSTEM

MAINLINE SPOT REPAIR | MUNICIPAL & COMMERCIAL

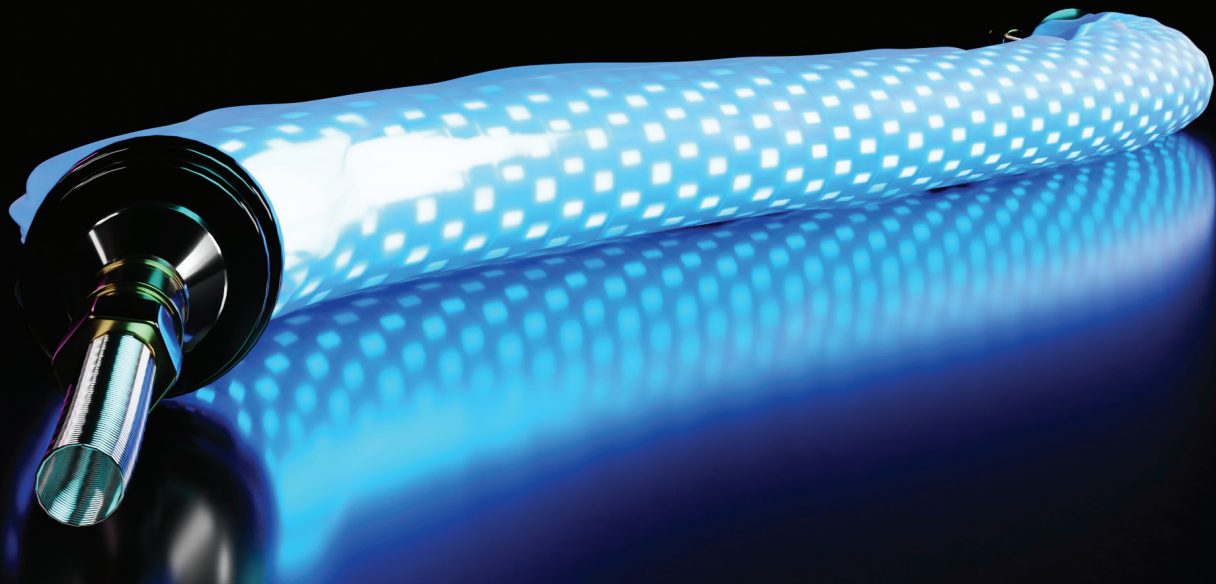
PIPE DIAMETERS	PACKER LENGTH
3-Inch to 6-Inch	5-, 10-, or 20-Foot
8-Inch to 10-Inch	9-Foot
12-Inch	6-Foot

- **250-foot reel enables up to 500 feet of total reach**
- **8"-12" mainline spot repairs**
- **Up to 10' repair lengths**
- **Uses LR3 packers with adapter**
- **Cures in as little as 15 minutes**
- **No heat, no resin kick-off risk**

LIGHTRAY[®] PACKERS

The LightRay LR3 packer is a rugged cold LED UV curing packer built for fast, reliable spot repairs. Available in 5', 10', and 20' lengths, it runs on low-voltage power and features a reinforced silicone bladder for long life and repeated use. A disposable outer foil speeds cleanup, while the flexible spring guide navigates bends and tight runs. The removable hook supports pull-in-place installs, RF tracking is optional, and a secure harness protects hose connections during retrieval.

- 2-inch to 12-inch diameter LightRay LED cast-in-place packer
- Cold cast LED UV lights
- UV light energy requirement
- Reinforced, multiple-sized silicone bladders
- Leading-edge removable spring guide
- Cutting-edge hook for pull-in-place
- Retrieval harness for pulling back on the packer without straining the air/power hose connector assembly
- Specialized air/power connector for easier reconnection on other sized packers



LIGHTRAY[®] LINER

LightRay liners arrive pre-impregnated and ready to install, eliminating on-site mixing, wet-out tables, pumps, heaters, and refrigeration. With no hazardous materials or extra equipment to manage, crews deploy faster, reduce cleanup, and maintain complete control of cure timing for safer, more consistent results.

- Pre-impregnated UV liners in 2"–12" diameters, including transitions
- 5–15 minute cure times
- Navigates bends and works in virtually any host pipe
- No refrigeration required with 6-month shelf life
- Non-VOC, low-odor resin
- Meets ASTM F1216 structural standards
- Available in 100' and 150' rolls for LightRay systems

LIGHTRAY[®] RESIN

The LightRay systems incorporate non-thermal UV casting resins along with high-strength flexible fiberglass pipe liners. No matter what the current temperature is above or below ground, the casting times are consistent anytime and every time, all in under 10 minutes.

- Casts in as little as 5 to 15 minutes depending on application
- No refrigeration necessary and 6-month shelf life when stored in a controlled environment between 50-70°F
- Standard UV resins are non-VOC (no odor)
- Exceeds the structural requirements of ASTM F1216
- **High-temperature UV resin now available!**

UNDERGROUND SOLUTIONS
YOU CAN RELY ON,
BRANDS YOU CAN TRUST



DRAIN CLEANING FOR REAL PROFITS *WHILE YOUR TECH IS ONSITE*

WHAT IS YOUR SOLUTION WHEN **NO** IS THE ANSWER TO A FULL LENGTH REPAIR?

SMALL MOM & POP

20

DRAIN CLEANING
CALLS PER MONTH

X 20% CLOSE RATE

X \$2,500 PER SPOT REPAIR

=

\$10,000

IN ONE MONTH

\$30,000

IN THREE MONTHS

\$60,000

IN SIX MONTHS

MEDIUM BUSINESS

50

DRAIN CLEANING
CALLS PER MONTH

X 20% CLOSE RATE

X \$2,500 PER SPOT REPAIR

=

\$25,000

IN ONE MONTH

\$75,000

IN THREE MONTHS

\$150,000

IN SIX MONTHS

LARGE CORPORATION

100

DRAIN CLEANING
CALLS PER MONTH

X 20% CLOSE RATE

X \$2,500 PER SPOT REPAIR

=

\$50,000

IN ONE MONTH

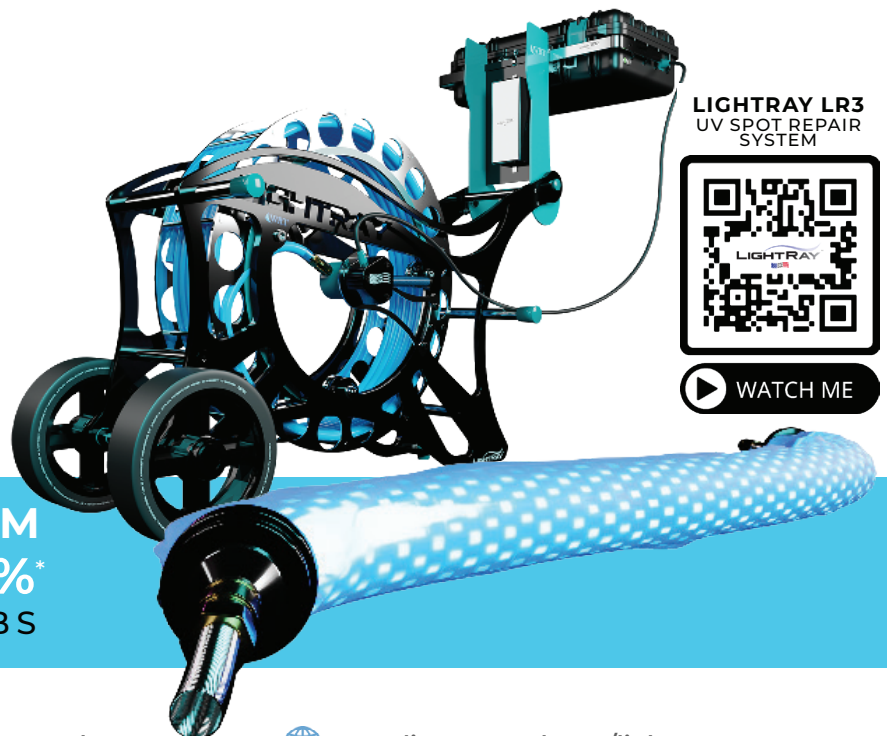
\$150,000

IN THREE MONTHS

\$300,000

IN SIX MONTHS

MONTHLY PAYMENTS ARE LESS
THAN THE PROFIT
FROM ONE INSTALL PER MONTH



LIGHTRAY LR3
UV SPOT REPAIR
SYSTEM



WATCH ME

LIGHTRAY LR3 SYSTEM
GROSS PROFIT OF 78%*
PAYS ITSELF OFF IN 15 JOBS

* Average Gross Profits from LightRay LR3 Contractors across the USA

847-457-1810 marketing@waterliner renewal.com

waterliner renewal.com/lightray

OUR LEGACY

Waterline Renewal Technologies is a leading provider of innovative products, technologies, and services in the trenchless rehabilitation industry. We specialize in restoring degraded infrastructure and preventing inflow and infiltration in drain, sewer, and stormwater systems through advanced, trenchless solutions.

Founded on the acquisition of LMK Technologies and Perma-Liner Industries in 2012, our company introduced groundbreaking technologies to both residential and municipal markets. These acquisitions set the foundation for our leadership in the industry.

In the municipal market, the addition of APM Permaform in 2014 further strengthened our portfolio with solutions that provide structural integrity and corrosion protection. APM's trusted brands—ConShield, CentriPipe, and Permacast—extend the lifespan of municipal storm and sewer systems. Meanwhile, LMK Technologies continues to lead with its innovative cured-in-place pipe (CIPP) products like the T-Liner® and Insignia®, setting industry standards for watertight lateral rehabilitation.

In the residential market, Perma-Liner Industries is the trusted leader, offering efficient and minimally disruptive solutions for small-diameter lateral pipeline rehabilitation. PLI's products are designed to meet the needs of contractors and homeowners, ensuring reliable and cost-effective repairs.

In 2021, we expanded our reach through the acquisition of Pipe Lining Supply, enhancing our trenchless solutions portfolio and significantly growing our West Coast distribution network. This acquisition allowed us to deliver a broader range of products to contractors nationwide, particularly in key markets requiring localized support. Around this time, we also expanded the adoption of LightRay, our advanced UV-cured repair system. LightRay combines efficiency, speed, and sustainability, enabling faster project turnaround with minimal disruption. Its state-of-the-art LED light technology ensures durable, precise repairs, setting a new standard for pipeline rehabilitation in both residential and municipal markets.



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Learn More

