

UNDERGROUND SOLUTIONS  
YOU CAN RELY ON,  
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## LIGHTRAY LRS SYSTEM

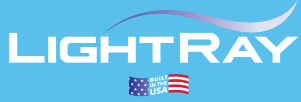
The **LightRay LRS** is a revolutionary install system designed around the LMK Shorty T-Liner product. Instead of relying on ambient or heat assist methods, the Shorty UV liner is cast in place with the LRS using a proprietary UV activated resin paired with a fiberglass Shorty liner. The liner casts only when exposed to our proprietary cold LED light launcher and light train which are required to cast the liner. Our simple system bolts onto an existing LMK ambient system and allows the operator complete control over the casting process, very closely resembling the procedure for installing a standard Shorty. The system does not create excess heat and a Shorty UV liner can be cast in as quickly as 10 minutes.

Shorty UV liners arrive ready for field impregnation and installation allowing for rapid deployment of the system. The LRS system uses non-thermal UV casting resin that is temperature stable and only activated by UV light reducing the risk of the liner cooking prematurely. The liners are customer configurable Shorty UV liners arrive with Insignia™ O-rings and top hats included. No matter the temperature in the working environment, the casting times are consistent every time.



- No complex parts or computer regulated movement
- The UV cast Shorty is available in mainline diameters of 8, 10 and 12 inches with lateral diameters of 4 and 6 inches
- Insignia™ hydrophilic O-rings included with every liner for leak free installations and the translucent liner verifies no leakage once cast in place
- Our proprietary UV launcher and light train casts the full mainline wrap with options of 2 feet, 5 feet and 10 feet up the lateral
- The LRS fiberglass liner has a flexural modulus that exceeds the structural requirements of ASTM F1216
- Our proprietary UV resin does not rely on elevated temperatures to cast or create excess heat
- All systems sold come with a 1-year limited warranty and training included
- Designed, built, and supported in the USA





# LRS COMPLETE SYSTEM 12200001

Part Number	Quantity	Description
12200001-04	1	Reel
12200001-06	1	Control Box
12200001-03	2	15' LRS Light Train
12200001-201	2	8" Launcher Assembly
12200001-207	2	10" Launcher Assembly
12200001-208	2	12" Launcher Assembly
12200001-04-21	2	50' Extension Cable
12200001-02	2	30' Lay Flat
Training	1	Training

## REQUIRED EQUIPMENT

- AMBIENT CART: ITEM NUMBER 053041-1
- D65S SEE SNAKE REEL: ITEM NUMBER R37468
- MONITOR, CS12X: ITEM NUMBER R57278
- FIVE LINE ASSEMBLY TRACKED: ITEM NUMBER 053091
- FIVE LINE CART POSITIONER: ITEM NUMBER 053076

## OPTIONAL EQUIPMENT

- 8" LAUNCHER: PART NUMBER 12200001-201
- 10" LAUNCHER: PART NUMBER 12200001-207
- 12" LAUNCHER: PART NUMBER 12200001-208
- 15' LRS LIGHT TRAIN: PART NUMBER 12200001-03
- SCHWALM PUCK ADAPTER SET: PART NUMBER 12200001-100
- PLATE SAMPLE FIXTURE: PART NUMBER 12200001-3000

## LMK SHORTY UV MATERIAL SIZES

Main Diameter	Lateral Diameter	Wye or Tee	Lined or Unlined	10' Lateral Length	5' Lateral Length	2' Lateral Length
8	4	T	Lined	12200001-1000-01	12200001-1050-01	12200001-1020-01
8	4	T	Unlined	12200001-1000-02	12200001-1050-02	12200001-1020-02
8	4	Y	Lined	12200001-1000-03	12200001-1050-03	12200001-1020-03
8	4	Y	Unlined	12200001-1000-04	12200001-1050-04	12200001-1020-04
8	6	T	Lined	12200001-1000-05	12200001-1050-05	12200001-1020-05
8	6	T	Unlined	12200001-1000-06	12200001-1050-06	12200001-1020-06
8	6	Y	Lined	12200001-1000-07	12200001-1050-07	12200001-1020-07
8	6	Y	Unlined	12200001-1000-08	12200001-1050-08	12200001-1020-08
10	4	T	Lined	12200001-1000-09	12200001-1050-09	12200001-1020-09
10	4	T	Unlined	12200001-1000-10	12200001-1050-10	12200001-1020-10
10	4	Y	Lined	12200001-1000-11	12200001-1050-11	12200001-1020-11
10	4	Y	Unlined	12200001-1000-12	12200001-1050-12	12200001-1020-12
10	6	T	Lined	12200001-1000-13	12200001-1050-13	12200001-1020-13
10	6	T	Unlined	12200001-1000-14	12200001-1050-14	12200001-1020-14
10	6	Y	Lined	12200001-1000-15	12200001-1050-15	12200001-1020-15
10	6	Y	Unlined	12200001-1000-16	12200001-1050-16	12200001-1020-16
12	4	T	Lined	12200001-1000-17	12200001-1050-17	12200001-1020-17
12	4	T	Unlined	12200001-1000-18	12200001-1050-18	12200001-1020-18
12	4	Y	Lined	12200001-1000-19	12200001-1050-19	12200001-1020-19
12	4	Y	Unlined	12200001-1000-20	12200001-1050-20	12200001-1020-20
12	6	T	Lined	12200001-1000-21	12200001-1050-21	12200001-1020-21
12	6	T	Unlined	12200001-1000-22	12200001-1050-22	12200001-1020-22
12	6	Y	Lined	12200001-1000-23	12200001-1050-23	12200001-1020-23
12	6	Y	Unlined	12200001-1000-24	12200001-1050-24	12200001-1020-24

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