

## The LifeMark®-100 Automated Layout System

is a vehicle-mounted pavement marking layout solution designed specifically for roadway striping operations. Using RTK-enhanced GNSS positioning and machine-vision guidance, the system records pavement marking locations prior to resurfacing and accurately re-establishes layout marks after paving — with crews safely inside the vehicle.

### PRODUCT OVERVIEW

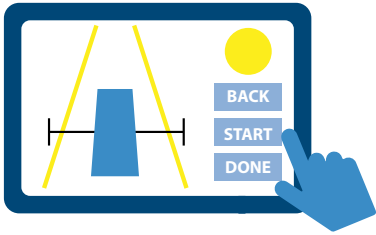
Unlike manual string-lining or traditional layout methods, the LifeMark-100 captures precise marking geometry digitally and reproduces it automatically. This approach eliminates roadway layout crews, improves consistency, and significantly reduces labor exposure in live traffic environments.

### KEY BENEFITS

- Eliminates manual layout crews
- Improves layout accuracy and repeatability
- Reduces labor costs and crew exposure
- Keeps operators safely inside the vehicle
- Ideal for resurfacing, preservation, and remark projects

### HOW IT WORKS

1. Recording Mode: The operator drives the lane while the system records pavement marking locations and patterns. RTK-enhanced GNSS and fixed machine-vision cameras determine and store precise coordinates in the onboard computer.
2. Layout Mode: After resurfacing, the operator follows the original recorded path displayed in-cab. The system automatically positions the paint carriage using smart hydraulic cylinders to place accurate layout marks.
3. Operator Oversight: All functions are monitored from the cab, allowing real-time visibility and control while keeping personnel off the roadway.



**Touchscreen Control Monitor**

An in-cab monitor provides a central command center for all layout functions, with intuitive menus and live video feeds so operators can monitor performance and make instant adjustments.



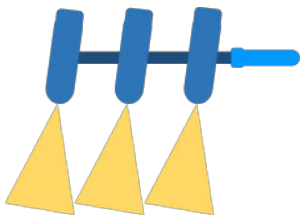
**Dual GPS/RTK Antennas with Inertial Navigation System**

Delivers centimeter-level positioning accuracy, ensuring every line is placed exactly where it's intended, even over long distances and in challenging environments.



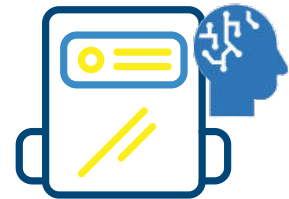
**Multi-Camera Vision System**

Specially calibrated rugged high-definition cameras that capture images on both sides of the vehicle during the pavement marking survey and recording process.



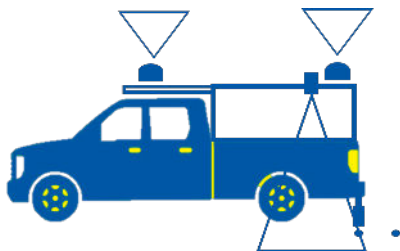
**LimnTech's Exclusive Intelligent Paint Carriage**

A proprietary, robotic-controlled paint carriage—configurable for single- or dual-sided operation—automatically positions for precise, repeatable line placement.



**Onboard AI Computer System**

In Weather-Sealed Cabinet Processes camera and GPS data in real time to control carriage position and gun timing, all while being protected from dust, moisture, and vibration for dependable operation.



**LifeMark®-100 Available Options**

- Single- or dual-sided layout configuration
- Low-profile arrow board
- Single- or dual-guide laser system
- Low- or high-pressure layout paint system
- Pattern Automation System (PAS)
- Temporary striping kit

**Power & Drive Options**



The LifeMark® system's robotic functions may be powered by multiple onboard drive configurations to accommodate different vehicle platforms and operational preferences:

- Hydraulic power via onboard PTO
- Auxiliary "pony" motor drive system
- Electric drive system

*The LifeMark® system requires continuous services to maintain system functionality, connectivity, and positioning accuracy. Recurring monthly operational costs include a Web Portal access fee, system support services, cellular data service, and RTK subscription or usage-based positioning services.*

