

# Gas Utility Mapping

## *Our Standard Solutions*



**CAUTION GAS LINE BURIED BELOW**

Gas utilities typically drive mapping standards because a gas pipe strike often has far-reaching consequences. Therefore, it is essential to update older as-built data and to ensure newly installed pipes are mapped to the highest level of accuracy.

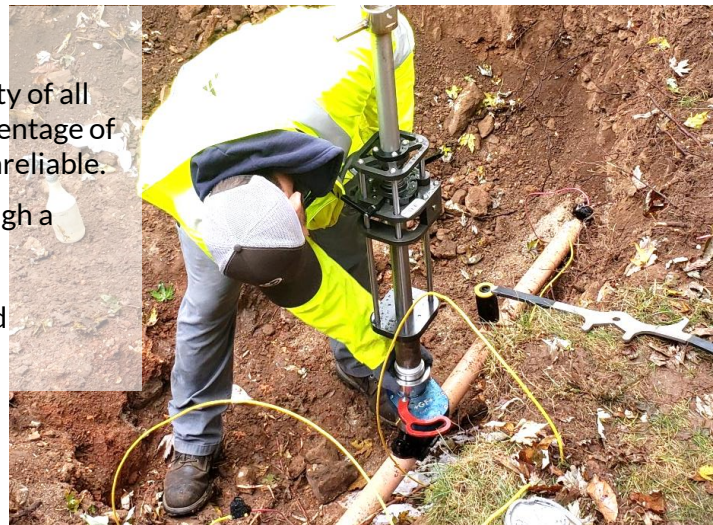
Our Gyro-mapping solutions for both distribution and transmission infrastructure deliver the highest possible accuracy, thus reducing future damage risk.

### Mapping **live distribution ducts**

Gas distribution ducts represent the majority of all sub-surface gas infrastructure. A large percentage of these ducts are old and XYZ data is often unreliable.

The LGM-2 can enter a live 2"-4" duct through a vertical hot tap and map in both directions.

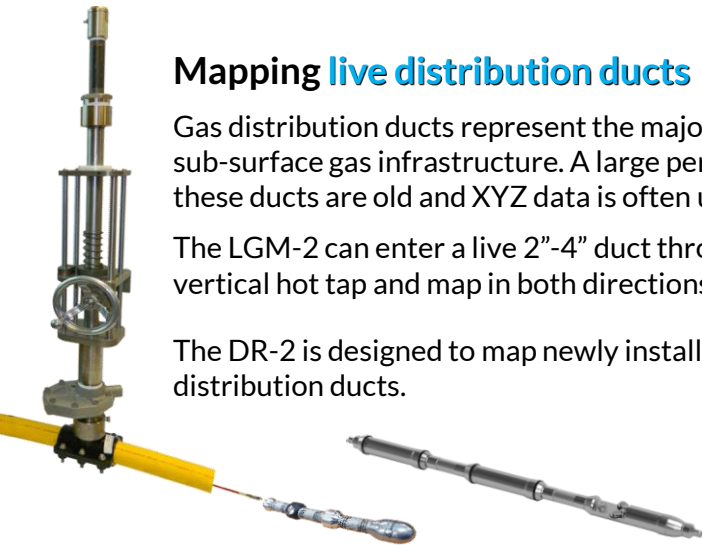
The DR-2 is designed to map newly installed distribution ducts.



### Mapping **transmission pipes**








Gyro-mapping not only provides a precise XYZ location, our systems also calculate a highly accurate bend radius along the segment, which is essential data for any pressurized pipe, and increasingly a requirement prior to contractor hand-over.

The DR-4 is the solution for mapping all newly installed gas transmission pipes





### Common specifications across all systems

Mean travelling speed	1 m/s - 3 ft/s	Inclination range	+45° to -45°
Data logging rate	100 Hz	Maximum acceleration	5g
Operating temperature	0°C to 50°C / 32°F to 120°F	Standard Software	X-Traction and X-View
Output Compatibility	      		

### LGM-2 specifications

Probe length	320mm/12.6"	Gyroscope type	MEMS
Probe outer diameter	33mm / 1.3"	Max. segment length	300m / 1000'
Probe weight	0.65kg / 1.4 lb.	Pipe ID range	50-100 mm / 2"- 4"
Integrated beacon	33kHz	Battery type/Autonomy	Li-ion / >5 hours



### DR-2 specifications

Probe length	±800mm/31.5"	Gyroscope type	FOG
Probe outer diameter	27mm / 1.1"	Max. segment length	Recomm.1,500m/5,000'
Probe weight	2.0kg / 4.4 lb.	Pipe ID range	40-75 mm / 1.6"- 3.0"
Max. pulling force	75kg / 165 lb.	Battery type/Autonomy	Li-ion / 4 hours



### DR-4/WUS-0320 Combo specifications

Probe length (ex. wheels)	504mm / 20"	Gyroscope type	FOG
Probe outer diameter	42mm / 1.7"	Max. segment length	Recomm.1,500m/5,000'
Probe weight	2.0kg / 4.4 lb.	Pipe ID range	80-500mm / 3.5"- 20.0"
Max. pulling force	150kg / 330 lb.	Battery type/Autonomy	Li-ion / 5 hours

