

Mapping Trenchless Installations

Our Standard Solutions

Gyro-mapping of trenchless installations is the most efficient and reliable way to acquire accurate as-built data of subsurface pipe and duct infrastructure.

Our proprietary technology records changes XYZ every inch enabling accurate calculation of highly detailed bend radius and inclination data.



As-built map

Besides being a valuable input for your Network Management processes, an accurate and independently obtained as-built map is an essential part of the hand-over process between utility owner and the new-built contractor, maintenance contractor or dark duct seller.








Detailed bend radius

Gyro-mapping not only maps the exact location of your utility asset, but it also provides highly detailed bend radius data.

This is essential data for verifying the minimum bend radius specification of newly installed pipes meet, as well as to estimate sidewall pressure of dark power and data ducts before pulling or blowing in expensive high fiber count cables.



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	      		

ABM-30 specifications

Probe length	±430mm/17"	Gyroscope type	MEMS
Probe outer diameter	36mm / 1.4"	Max. segment length	300m / 1000'
Probe weight	0.6kg / 1.4 lb.	Pipe ID range	29-34 mm / 1.2"- 1.4"
Max. pulling force	40kg / 90 lb.	Battery type/Autonomy	Li-ion / 4 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

WU-2040 Centralizer Extension Set

Max. pulling force	150kg / 330 lb	Pipe ID range	500-1000 mm / 20"- 40"
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