

Mapping Data Ducts

Our Standard Solutions

The world's dependency on uninterrupted data services increases by the day and outage has significant financial and social impact. Knowing the exact location of your assets is a key variable in reducing downtime risk.

Our small diameter duct Gyro Mapping solutions deliver highly accurate XYZ data and essential shape data for safe installation of data cables.



As-built map

An independently obtained, accurate as-built map is essential when installing new duct infrastructure or verifying the location of third-party dark duct.

Standard mapping solutions cover trade sizes DN-40/1.25", DN-50/1.5", DN63/2" and DN110/4".








Detailed bend radius and undulations

Blowing and pulling force are critical variables when installing fiber optic cable in ducts.

Accurate bend and undulation data of a duct enables accurate forecasting of cable tension during pull in, so that installation lengths can be optimized, while cable damage risk is minimized.



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	27mm / 1.1"	Max. segment length	300m / 1000'
Probe weight	0.6kg / 1.4 lb.	Duct ID range	29-34 mm / 1.2"- 1.4"
Max. pulling force	40kg / 90 lb.	Battery type/Autonomy	Li-ion / 4 hours

ABM-40 specifications

Probe length	±800mm/31.5"	Gyroscope type	MEMS
Probe outer diameter	36mm / 1.4"	Max. segment length	Recomm.300m/1,000'
Probe weight	2.0kg / 4.4 lb.	Duct ID range	40-75 mm / 1.6"- 3.0"
Max. pulling force	75kg / 165 lb.	Battery type/Autonomy	Li-ion / 10 hours

DR-2 specifications

Probe length	±800mm/31.5"	Gyroscope type	FOG
Probe outer diameter	36mm / 1.4"	Max. segment length	Recomm.1,500m/5,000'
Probe weight	2.0kg / 4.4 lb.	Duct ID range	40-75 mm / 1.6"- 3.0"
Max. pulling force	75kg / 165 lb.	Battery type/Autonomy	Li-ion / 5 hours

DR-3 specifications

Probe length	±552mm/21.8"	Gyroscope type	FOG
Probe outer diameter	56mm / 2.25"	Max. segment length	Recomm.1,500m/5,000'
Probe weight	1.5kg / 3.0 lb.	Duct ID range	65-115 mm / 2.6"- 4.5"
Max. pulling force	120kg / 240lbs.	Battery type/Autonomy	Li-ion / 4 hours

