

Fibre-Optic Intrusion Detection System

CAPABILITY SHEET · FIBRE · ROUTE · ALARM · INTEGRATED TO ORDER

THE ONE IDEA

PRINCIPLE	The cable is the sensor. Light sent down one fibre comes back from every point along it.
WHY IT MATTERS	The unit hears a footstep or a spade anywhere on the route and says where, with no sensor at that spot.

THE SYSTEM

FIBRE AND CABLE	Standard single-mode fibre in a cable chosen for the route, laid in the trench or fixed to the fence.
UNIT AND LINKS	An interrogator unit at a station that sends pulses and reads the echoes, with power and links to the control room.
SOFTWARE	Software tuned to each stretch from its baseline that sorts events into a dig, a vehicle, a walker or the weather.
RECORD	One alarm with its place on the route, and one record for each alarm, handed to the site's own alarm systems.

THE METHOD

ORDER	Route, lay, baseline, listen, classify and alarm. The baseline and the sorting are what a quick job skips.
LIMITS	Detection performance is shown by the maker's data and proved on the customer's own route, and is not printed here.

CONFIGURATIONS

PIPELINE SYSTEM	Fibre laid beside the pipe, with units at stations along the route and a link back to the control room.
PERIMETER SYSTEM	Fibre fixed to the fence or buried around the site, with one unit and one alarm point.
WITH CAMERAS	An alarm that calls up the nearest camera, so the control room sees what the fibre heard.

STANDARDS & SCOPE

STANDARDS	Public references: ITU-T G.652 for standard single-mode fibre and IEC 60794 for optical fibre cables.
SCOPE BOUNDARY	It reports a disturbance and does not stop one. It is not a point-sensor and camera system, not a barrier, not a mast and not a leak detector.
STATUS	Neometrix integrates fibre-optic intrusion detection systems to order, and no delivered fibre-optic intrusion detection system is claimed.

DEFENCE PROGRAMMES DESK

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