

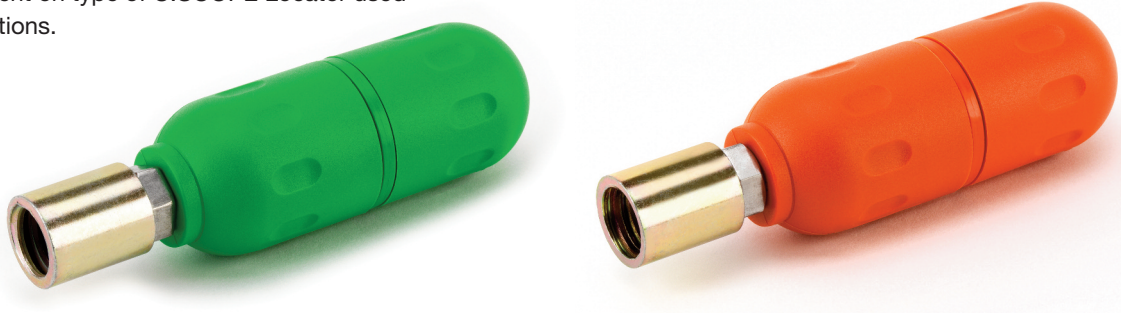


**Accessory Range
for Pipe & Cable Location Equipment**

GENERAL PURPOSE SONDE

The C.SCOPE 8kHz and 33kHz General Purpose Sondes are transmitters used to trace the direction of pipes.

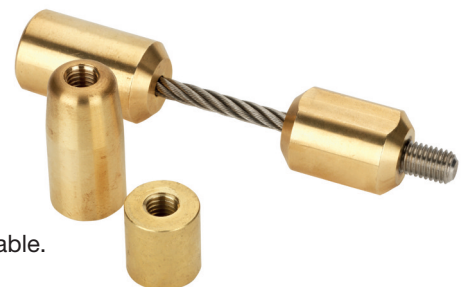
C.SCOPE 8kHz and 33kHz General Purpose Sondes allow the route of non-metallic pipes such as sewers, drains and large plastic gas and water mains to be traced. Ideal for finding the position of blockages in pipes and powerful enough to be detectable at 7 metres (23 foot) depth dependent on type of C.SCOPE Locator used and site conditions.



General Purpose Sonde SPECIFICATION

Product Name	General Purpose Sondes
Part Numbers	YIRS-33 and YIRS-8
Frequency	Transmits 32,768Hz and 8,192Hz respectively
Construction	Rugged plastic casing, stainless steel stud. Epoxy resin filled
Colour	Orange casing for 33kHz. Green casing for 8kHz
Detection Depth Range:	
for 33kHz Sonde	Up to 7 m (23 foot) dependent on type of C.SCOPE Locator and site conditions
for 8kHz Sonde	Up to 7 m (23 foot) dependent on type of C.SCOPE Locator and site conditions
Dimensions	39mm diameter x 121 mm long (1.5" x 4.7")
End fitting	M10 threaded stud
	Supplied with Rod Connector to fit standard drain rods with 7 T.P.I. thread
Battery Type	1 x AA, LR6 Alkaline
Battery Life	Up to 15 hours
Approvals	EN301 489 EN300 330
IP Rating	68

Specification subject to change without notice.



The Spring Coupling is an accessory for use with Sondes to help negotiate bends and obstructions in pipe systems. A Lockfast Rod Connector is also available.

DUCT SONDE

The C.SCOPE 33kHz Duct Sonde is a transmitter designed specifically to trace the route of congested ducts or conduits.

Often a standard sized Sonde is too large to pass between cables when tracing electrical, telecommunication or cable conduits or ducts. The solution is the C.SCOPE 33kHz Duct Sonde.

The C.SCOPE 33kHz Duct Sonde is a small diameter battery powered transmitter which can be screwed onto the end of a duct rod and inserted into a duct or conduit. This allows the route of the duct or conduit to be traced using a C.SCOPE Locator. The exact point of a blockage can be identified using this system with enormous cost saving potential.

Developed in conjunction with British Telecom, the smaller diameter of the Duct Sonde can be easily pushed along the duct without snagging.



Duct Sonde SPECIFICATION

Product Name	Duct Sonde 33kHz
Part No.	YIRSD-33
Construction	Waterproof, robust plastic, O Ring battery compartment seal, stainless steel end fittings
Frequency	Transmits 32,768Hz continuous
Detection Depth Range	4.5m (15 foot) dependent on type of C.SCOPE Locator and site conditions
Dimensions	24mm diameter x 200mm length (1" x 7.8")
End fitting	Standard rod thread (" Whitworth 16 T.P.I.), female connector at one end
Battery Type	1 x AAA (IEC type LR03) Alkaline
Battery Life	Up to 20 hours intermittent use at 20°C (68°F)
IP Rating	68

Specification subject to change without notice.

METAL PIPE SONDE

The C.SCOPE Metal Pipe Sonde is a small, self-contained low frequency transmitter that can be used inside metallic pipes.

To address the problems of detecting the position of a blockage or other relevant feature within a metal pipe, the C.SCOPE Metal Pipe Sonde is specially designed with a low frequency signal output that is capable of being transmitted through the metal pipe walls to the surface.

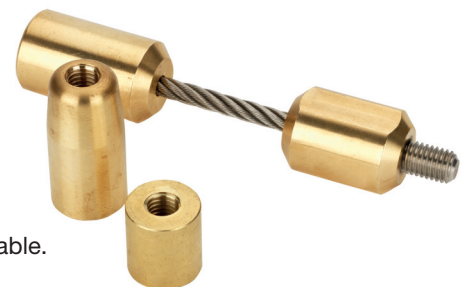
This makes it ideal for finding the position of blockages in metal pipes or for use with a camera and is powerful enough to be detectable at up to 5 metres depth with the C.SCOPE MXL2 Precision Pipe and Cable Locator (dependent on pipe material and wall thickness).



Metal Pipe Sonde SPECIFICATION

Product Name	Metal Pipe Sonde
Part Numbers	YIRS-512 and YIRS-640
Frequency	Transmits 512Hz and 640Hz respectively
Detection Depth Range	Up to 5metres (16'5") dependent on pipe material and wall thickness
Dimensions	39mm diameter x 121 mm length (1.5" x 4.7")
End fitting	M10 threaded stud supplied with 7 t.p.i. rod fitting (other adaptors are available)
Battery Type	1 x AA (IEC type LR6)
Battery Life	Up to 25 hours intermittent use at 20°C (68°F)
Approvals	EN301489 EN300 330 EAN 5060086350791
IP Rating:	68

Specification subject to change without notice.



The Spring Coupling is an accessory for use with Sondes to help negotiate bends and obstructions in pipe systems. A Lockfast Rod Connector is also available.

PLASTIC PIPE TRACERS

The Plastic Pipe Tracers allow small diameter, non-metallic pipes to be traced.

Developed as a result of requests from the British gas industry the C.Scope Plastic Pipe Tracers are the smallest diameter product on the market and can be successfully inserted into pipes when nothing else fits. Their unique construction gives unparalleled reliability and yet allows both line tracing and the all important end tracing using the remarkable Sonde technology housed at the very tip of the Tracers.

Available in 20 or 50 metre lengths (65 and 160 foot).



Plastic Pipe Tracer SPECIFICATION

Product Name	20m and 50m Plastic Pipe Tracer (65' and 160')	
Part No.	YIRPPT20-33 and YIRPPT50-33	
Frequency	Operates at 32,768Hz	
Detection Depth Range:		
Line Detection	3m (10 foot) dependent upon Locator and Signal Generator type and site conditions	
Tip Detection	4m (13 foot) dependent upon Locator and Signal Generator type and site conditions	
Compatibility	Any Signal Generator or Transmitter with 33kHz or 33/131kHz combined output	
Rod Length	20m or 50m (65' and 160')	
Rod and Sonde Diameter	6mm (0.2")	
Rod Minimum Bend Radius	50mm (1.9")	
Construction:		
Reel	Robust plastic housing	
Rod	Flexible, chemical resistant plastic	
Reel dimensions (20m)	150 x 120 x 250mm (5.9" x 4.7" x 9.8")	
Reel dimensions (50m)	165 x 290 x 240mm (6.5" x 11.4" x 9.4")	
Reel weight (20m)	1248g (2 pound 12 ounces)	
Reel weight (50m)	2073g (4 pound 8.5 ounces)	
Operational Temperature Range	-20°C to 50°C (-4°F to 122°F)	
Storage Temperature Range	-20°C to 50°C (-4°F to 122°F)	
IP rating for actual Tracer Rod & Tip	68	
IP rating for Plastic Pipe Tracer Casing	54	

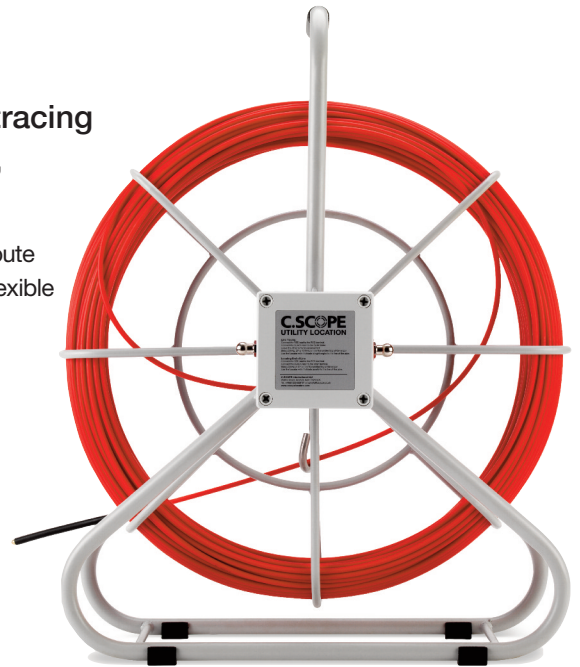
Specification subject to change without notice.

FLEXIBLE TRACER

The Flexible Tracer is highly effective at locating and tracing the route of small diameter, non-metallic ducts, pipes, sewers and drains.

When used with any C.Scope Cable Locator and Signal Generator, both the route of a non-metallic pipe and a particular end point can be pinpointed with the Flexible Tracer. This is particularly useful for identifying the position of any blockages or obstructions within the pipe. If a depth measuring Locator is being used then it is also possible to know the depth of the pipe/blockage.

The Flexible Tracer comprises a continuous fibreglass rod housed in a reel that rotates on an axle. The axle has a slip-ring allowing the Signal Generator to remain connected to the connection terminals of the Flexible Tracer whilst it is being inserted into the pipe to be traced. A tiny Sonde is built into the tip of the Flexible Tracer allowing the end point of the Tracer to also be located. This Sonde is also flexible.



Flexible Tracer SPECIFICATION

Product Name	80 m Flexible Tracer (260')	
Part No.	YIRRFT-80	
Frequency	Optimised for 32,768Hz	
Detection Depth Range:		
Line Detection	3m (10 foot) dependent upon Locator and Signal Generator type and site conditions	
Tip Detection	4m (13 foot) dependent upon Locator and Signal Generator type and site conditions	
Compatibility	Any Signal Generator or Transmitter with 33kHz or 33/131kHz combined output	
Rod Length	80 m (260')	
Rod Diameter	5 mm nominal (0.2")	
Rod Material	Quality sleeved fibreglass rod with three integral copper wires	
Rod Minimum Bend Radius	10 cm (3.9") reducing to 15 cm (5.9"), 5 cm (1.9") from Tip	
Rod wire diameter	0.45 mm each wire (0.018")	
Transmitting Sonde Diameter	7.5 mm max. (0.3")	
Rigid Tip Length	20 mm max. (0.8")	
Tip Material	Brass	
Frame Size	58.8 x 28.8 x 48.5 cm (1'11" x 11.3" x 1'7")	
Frame Material	Powder coated 16 mm steel tube (0.6")	
Reel Diameter	48 cm (1'7")	
Weight	7.5 kg (16 pound 8.5 ounces)	
Slip ring assembly	Sealed multi-wire duplexed	
Operational Temperature Range	-20°C to 50°C (-4°F to 122°F)	
Storage Temperature Range	-20°C to 50°C (-4°F to 122°F)	
IP rating for Tracer Rod & Tip	68	
IP rating for Casing	54	
IP rating for Terminal Box	66	

Specification subject to change without notice.

SIGNAL CLAMP

The Signal Clamp provides a safe and straightforward way to apply the Generator/ Transmitter signal to a cable or small pipe to enable precision tracing of this service.

The C.SCOPE Signal Clamp allows operators to apply the Generator/ Transmitter signal from any C.SCOPE Signal Generator or Transmitter effectively to any cable. It is an extremely practical way to allow individual cables to be traced even when the cable is in amongst other cables.



Signal Clamp SPECIFICATION

Product Name	Signal Clamp
Part No.	YIRC-33-8
Construction	Toroidal induction ring housed in robust plastic Spring loaded jaws
Frequency	Tuned for optimum use with 33kHz Signal Generators/ Transmitters
Dimensions	270 x 160 x 28 mm (10.6" x 6.3" x 1.1")
Lead length	2 m (6'6.7")
Compatibility	Maximum cable diameter 105 mm (4.1") Suitable for use with all C.Scope Signal Generators and Transmitters
Safety	Built to conform to BSEN61010-1:1993 and BSEN 61010-2-032:1995
IP Rating	54

Specification subject to change without notice.

SIGNAL INJECTOR

The Signal Injector is an accessory that allows the Signal Generator signal to be safely applied to an electrical system via a conventional 3-pin power socket.

The C.SCOPE Signal Injector is an accessory which, when connected to a C.SCOPE Signal Generator or Transmitter, applies a signal safely to an electrical system via a conventional 3-pin power socket. This signal will then be detectable on the buried supply cable outside of the building and many supply cables within the property.

The transmitted signal can then be detected by any C.SCOPE Locator.



Signal Injector SPECIFICATION

Product Name	Signal Injector	
Part No.	YIRIP-33-E	
Dimensions:		
Box	100 x 50 x 25mm (3.9" x 1.9" x 1")	
Input Lead Length	1 m (3'3.3")	
Output Lead Length	1.5m (4'11")	
Construction	Encapsulated, robust housing Moisture / dust resistant to IP54	
Electrical Output (Mains side):		
Electrical Isolation	Class II (Double Insulated)	
Mains Plug Connector	UK, 3 pin to BS1363, load between Live and Earth or 2 pin European Shuko style	
Maximum Voltage	250 V rms	
Maximum Load	<10mA (predominantly capacitive)	
Frequency range	45-65Hz	
Electrical Input (Signal Generator/ Transmitter side):		
Connector	3 pin XLR male (industry standard)	
Maximum Voltage	42 V rms	
Maximum Power	<250mW when driven from C.SCOPE Signal Generator/ Transmitter	
Input Impedance	2000 Ohms	
Frequency	32,768Hz	
Safety	Built to conform to BSEN61010-1:1993 and BSEN 61010-2-032:1995	

Specification subject to change without notice.

CS880 Metal Cover Locator

The CS880 Metal Cover Locator detects lost or hidden metal objects such as manhole covers and stopcock covers.

The CS880 Metal Cover Locator is a purpose-built solution to the problem of finding lost or hidden metal objects in the ground.

It is most commonly used for locating manhole covers buried under tarmac or grass.

It can be used to successfully find stopcock covers, valve box lids, hydrant and manhole covers.

The CS880 has been designed specifically for the exacting requirements of the water industry and the ground working contractor. It is incredibly simple to operate providing a reliable, neat and quick solution to the problem of pinpointing the position of metal covers buried under earth or tarmac.



CS880 Metal Cover Locator SPECIFICATION

Product Name	CS880 Metal Cover Locator
Part No.	CS880
Controls	Simple on / off push buttons
Construction	100% submersible highly robust search coil
Detection range:	
Stopcock	25cm (9.8")
Valve cover	50cm (1'7.6")
Cable pit cover	90cm (2'11.4")
Manhole cover	90cm (2'11.4")
Design	Twistlock stem length adjustment Comfortable hand grip with arm rest Fascia mounted loudspeaker with socket for optional headphones Sealed separate battery compartment Protective carry bag available
Battery Type	8 x AA (LR6) Alkaline clip in battery pack. Compatible with NiMH rechargeable batteries.
Battery Life	Greater than 100 hours (typical usage)
Search Head IP Rating	67

Specification subject to change without notice.

Carry Bags

C.SCOPE produce a range of carry bags to transport and store Pipe and Cable Locator equipment and accessories.

A C.Scope Carry Bag will keep your C.Scope Pipe & Cable Locator Equipment & Accessories safe when not in use and will still have capacity to carry the additional locating accessories such as site maps, marker paint or pegs to site each time. Choose between the Professional Carry Bag that has specific compartments for each item or the Budget Carry Bag that is a loose holdall type of construction.



SPECIFICATIONS

Product Name	CS880 Carry Bag
Part No.	YCBM
Dimensions	30 x 16 x 85 cm (11.8" x 6.3" x 2'9.5")
Capacity	38litres
Product Name	Large Carry Bag
Part No.	YCBL
Dimensions	33 x 25 x 89 cm (1'1" x 9.8" x 2'11")
Capacity	72litres
Product Name	Professional Carry Bag
Part No.	YCB/CS
Dimensions	22 x 23 x 76 cm (8.6" x 9" x 2'6")
Capacity	38litres

Specification subject to change without notice.

General Purpose Sonde 8kHz

General Purpose Sonde 33kHz

Duct Sonde

Metal Pipe Sonde

Spring Coupling & Rod Connectors

Plastic Pipe Tracer 20m

Plastic Pipe Tracer 50m

Flexible Pipe Tracer

Signal Clamp

Signal Injector

CS880 Metal Cover Locator

Carry Bags

C.SCOPE International Ltd

Kingsnorth Technology Park Wotton Road Ashford Kent TN23 6LN United Kingdom
Telephone +44(0)1233 629181 Fax +44(0)1233 645897 email info@cscope.co.uk

www.cscopelocators.com

All C.SCOPE products are manufactured under a quality system accredited to ISO9001:2008



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