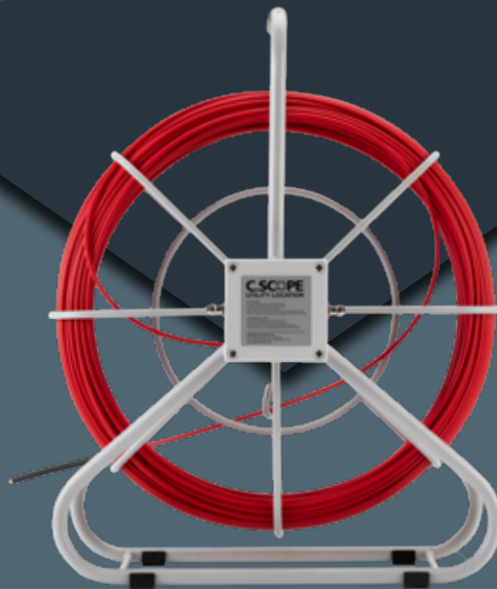


# C.SCOPE

LOCATOR ACCESSORIES.



**DATA SHEETS**  
FOR PIPE & CABLE  
LOCATION EQUIPMENT  
ACCESSORIES



## LOCATOR ACCESSORIES

## PRODUCT LIST

- General Purpose Sonde 33kHz
- General Purpose Sonde 8kHz
- Duct Sonde
- Metal Pipe Sondes
- Plastic Pipe Tracer 20 Metres
- Plastic Pipe Tracer 50 Metres
- Flexible Pipe Tracer 80 Metres
- Signal Clamp
- Signal Injector
- Carry Bags
- Li-ion Rechargeable Batteries



## GENERAL PURPOSE SONDE

## DATA SHEET

**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 up to 7 metres (23 foot) depth dependent on type of C.SCOPE Locator used and site conditions.

### SPECIFICATION

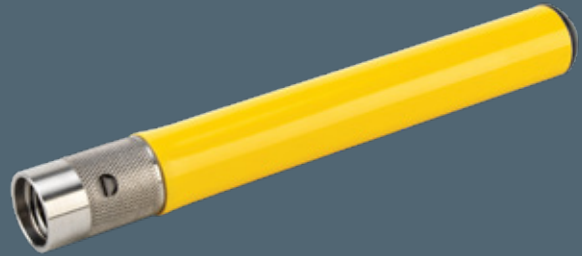
<b>Product name</b>	General Purpose Sondes
<b>Part Numbers</b>	YIRS-33 and YIRS-8
<b>Frequency</b>	32,768Hz and 8,192Hz respectively
<b>Construction:</b>	Rugged plastic casing, stainless steel stud. Epoxy resin filled
<b>Colour</b>	Orange casing for 33kHz. Green casing for 8kHz
<b>Detection Depth Range: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

Other adapters are also available for connection to cobra rodding systems with M5 or M12 male threads and to Lockfast Drain Rods.





## DUCT SONDE

## DATA SHEET

**The C.SCOPE 33kHz Duct Sonde is a slim 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 telecommunication 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 duct rods or a continuous fibreglass 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 easily identified using this system with enormous cost saving potential.

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

## SPECIFICATION

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

Specification subject to change without notice.

Adapter available for connection to cobra rodding system with M12 male thread.





## METAL PIPE SONDES

## DATA SHEET

**The C.SCOPE Metal Pipe Sondes are small, self-contained low frequency transmitters 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 Sondes are specially designed with a low frequency signal output that is capable of being transmitted through the metal pipe walls to the surface.

This makes them 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 MXL4 Precision Pipe and Cable Locator (dependent on pipe material and wall thickness).

### SPECIFICATION

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

Other adapters are also available for connection to cobra rodding systems with M5 or M12 male threads and to Lockfast Drain Rods.





## PLASTIC PIPE TRACERS

## DATA SHEET

**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 incorporate the smallest diameter Sonde on the market and can be successfully inserted into pipes where 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).

### SPECIFICATION

<b>Product name</b>	20m and 50m Plastic Pipe Tracer (65 foot and 160 foot)
<b>Part Numbers</b>	YIRPPT20-33 and YIRPPT50-33
<b>Frequency</b>	32,768Hz
<b>Detection Depth Range:</b> <b>Line Detection</b> <b>Tip Detection</b>	Up to 3 m (10 foot) dependent upon Locator and Signal Generator type and site conditions Up to 4 m (13 foot) dependent upon Locator and Signal Generator type and site conditions
<b>Compatibility</b>	Any Signal Generator or Transmitter transmitting at 33kHz or 33/131kHz and up to 1 Watt output
<b>Rod Length</b>	20 m or 50 m (65 foot and 160 foot)
<b>Rod and Sonde Diameter</b>	6 mm (0.2")
<b>Rod Minimum Bend Radius</b>	50 mm (1.9")
<b>Construction:</b> <b>Reel</b> <b>Rod</b>	Robust plastic housing Flexible, chemical resistant plastic
<b>Reel dimensions (20m)</b> <b>Reel dimensions (50m)</b>	150 x 120 x 250 mm (5.9" x 4.7" x 9.8") 165 x 290 x 240 mm (6.5" x 11.4" x 9.4")
<b>Reel weight (20m)</b> <b>Reel weight (50m)</b>	1248 g (2 pound 12 ounces) 2073 g (4 pound 8.5 ounces)
<b>Operational Temperature Range</b> <b>Storage Temperature Range</b>	-20°C to 50°C (-4°F to 122°F) -20°C to 50°C (-4°F to 122°F)
<b>IP rating for Tracer Rod &amp; Tip</b> <b>IP rating for Plastic Pipe Tracer Casing</b>	68 54

Specification subject to change without notice.



## FLEXIBLE TRACER

## DATA SHEET

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.

### SPECIFICATION

<b>Product name</b>	80 m Flexible Tracer (260 foot)
<b>Part Numbers</b>	YIRRF-80
<b>Frequency</b>	32,768Hz
<b>Detection Depth Range:</b> Line Detection Tip Detection	<b>Up to 3 m (10 foot) dependent upon Locator and Signal Generator type and site conditions</b> <b>Up to 4 m (13 foot) dependent upon Locator and Signal Generator type and site conditions</b>
<b>Compatibility</b>	Any Signal Generator or Transmitter transmitting at 33kHz or 33/131kHz and up to 1 Watt output
<b>Rod Length</b>	80 m (260 foot)
<b>Rod Diameter</b>	5 mm nominal (0.2")
<b>Rod Material</b>	Quality sleeved fibreglass rod with three integral copper wires
<b>Rod Minimum Bend Radius</b>	10 cm (3.9") reducing to 15 cm (5.9"), 5 cm (1.9") from Tip
<b>Rod Wire Diameter</b>	0.45 mm each wire (0.018")
<b>Tip Length</b>	160 mm (6.3")
<b>Tip Diameter</b>	9.5 mm (0.37")
<b>Tip Material</b>	Brass
<b>Frame Size</b>	58.8 x 28.8 x 48.5 cm (1'11" x 11.3" x 1'7")
<b>Frame Material</b>	Powder coated 16 mm steel tube (0.6")
<b>Reel Diameter</b>	48 cm (1'7")
<b>Weight</b>	7.5 kg (16 pound 8.5 ounces)
<b>Slip Ring Assembly</b>	Sealed multi-wire duplexed
<b>Operational Temperature Range</b> <b>Storage Temperature Range</b>	-20°C to 50°C (-4°F to 122°F) -20°C to 50°C (-4°F to 122°F)
<b>IP Rating for Tracer Rod &amp; Tip</b> <b>IP Rating for Casing</b> <b>IP Rating for Terminal Box</b>	68 54 66

Specification subject to change without notice.





## SIGNAL CLAMP

## DATA SHEET

**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 amongst other cables.

## SPECIFICATION

Product name	Signal Clamp
Part No.	YIRC-33-8
Frequency	Tuned for optimum use with 33kHz Signal Generators/ Transmitters
Construction:	Toroidal induction ring housed in robust plastic Spring loaded jaws
Dimensions	270 x 160 x 28 mm (10.6" x 6.3" x 1.1")
Lead Length	2 m (6'6.7")
Compatability	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

## DATA SHEET

The Signal Injector is an accessory that allows the Signal Generator signal to be safely applied to an electrical system via a conventional 2-pin or 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 2-pin or 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.

## SPECIFICATION

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

Specification subject to change without notice.



## CARRY BAGS

## DATA SHEET

**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.

## SPECIFICATION

<b>Product name</b>	Professional Carry Bag
<b>Part No.</b>	YCB-CS
<b>Dimensions</b>	22 x 23 x 76 cm (8.6" x 9" x 2'6")
<b>Capacity</b>	38 litres



<b>Product name</b>	Large Carry Bag
<b>Part No.</b>	YCB-L
<b>Dimensions</b>	33 x 25 x 89 cm (1'1" x 9.8" x 2'11")
<b>Capacity</b>	72 litres



<b>Product name</b>	CS880 Carry Bag
<b>Part No.</b>	YCB-M
<b>Dimensions</b>	30 x 16 x 85 cm (11.8" x 6.3" x 2'9.5")
<b>Capacity</b>	38 litres



Specification subject to change without notice.



## LI-ION RECHARGEABLE BATTERIES

## DATA SHEET

**Sustainability and the reduction of the carbon footprint has become a focus for today's users of Cable Avoidance Pipe and Cable Location Products and Tools.**

Designed to fit the battery compartments of the C.Scope XL4 range of Cable Avoidance Tools and Signal Generators together with the C.Scope CS880 Metal Cover Locator, C.Scopes range of Li-ion Rechargeable Batteries and Chargers are a cost effective and environmentally safe solution.

**Choosing C.Scope Li-ion re-chargeable batteries has clear advantages:**



### **High energy density:**

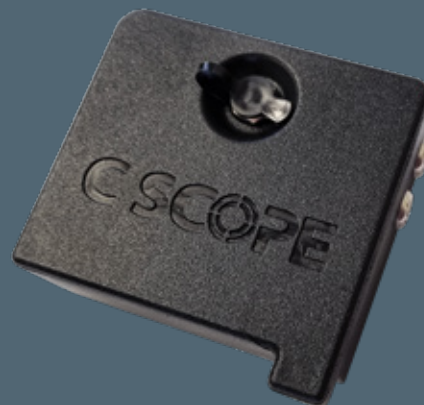
With modern location equipment consuming more power, there is a requirement for batteries to have a much higher energy density, as provided by Li-ion batteries.

### **Self-discharge:**

The self-discharge rate of Li-ion cells is much lower than that of other rechargeable cells, such as Ni-Cad and NiMH allowing them to operate for longer between charges.

### **Low maintenance:**

Li-ion batteries do not require any maintenance to ensure continued high performance, unlike Ni-Cad cells that require a periodic discharge to ensure that they did not develop the memory effect.



## LI-ION RECHARGEABLE BATTERIES

## DATA SHEET

### C.SCOPE XL4 LOCATORS

### SPECIFICATION

<b>Product name</b>	XL4 Locator Li-ion Battery Pack
<b>Part Number.</b>	YLBP-XL-1
<b>Nominal Voltage</b>	11.1V
<b>Capacity</b>	1.6Ah
<b>Charge Time</b>	5.5 hours
<b>Battery Life</b>	Up to 10 hours, depending on usage
<b>Service Life</b>	500 full charge/discharge cycles (to 70% Capacity)



<b>Product name</b>	XL4 Locator Li-ion Wall Charger
<b>Part Number</b>	YLBC-12-WP-1
<b>Input Power</b>	100-240V ac – 50-60Hz – max 0.3A
<b>Nominal Output Voltage</b>	12V dc
<b>Maximum Output Voltage</b>	12.8V dc



<b>Product name</b>	XL4 Locator Li-ion Vehicle Charger
<b>Part Number</b>	YLBC-12-V-1
<b>Input Power</b>	12-24V dc – max 1.5A
<b>Nominal Output Voltage</b>	12V dc
<b>Maximum Output Voltage</b>	12.8V dc



Specification subject to change without notice.



## LI-ION RECHARGEABLE BATTERIES

## DATA SHEET

### C.SCOPE SIGNAL GENERATORS/TRANSMITTERS

### SPECIFICATION

<b>Product name</b>	Signal Generator/Transmitter Li-ion Battery Pack
<b>Part Number.</b>	YLBP-TX-1
<b>Nominal Voltage</b>	7.4V
<b>Capacity</b>	5.2Ah
<b>Charge Time</b>	5.5 hours
<b>Battery Life</b>	Up to 10 Hours, depending on usage
<b>Service Life</b>	500 full charge/discharge cycles (to 70% capacity)



<b>Product name</b>	Signal Generator / Transmitter Li-ion Wall Charger
<b>Part Number</b>	YLBC-6-WP-1
<b>Input Power</b>	100-240V ac – 50-60Hz – max 0.3A
<b>Nominal Output Voltage</b>	6V dc
<b>Maximum Output Voltage</b>	8.4V dc



<b>Product name</b>	Signal Generator / Transmitter Li-ion Vehicle Charger
<b>Part Number</b>	YLBC-6-V-1
<b>Input Power</b>	12-24V dc – 50-60Hz – max 1.2A
<b>Nominal Output Voltage</b>	6V dc
<b>Maximum Output Voltage</b>	8V dc, 2A



Specification subject to change without notice.



## LI-ION RECHARGEABLE BATTERIES

## DATA SHEET

### CS880 METAL COVER LOCATOR

### SPECIFICATION

<b>Product name</b>	CS880 Li-ion Battery Pack
<b>Part Number.</b>	YLBP-MD-1
<b>Nominal Voltage</b>	11.1V
<b>Capacity</b>	1.6Ah
<b>Charge Time</b>	5.5 hours
<b>Battery Life</b>	Up to 80 hours, depending on usage
<b>Service Life</b>	500 full charge/discharge cycles (to 70% capacity)



<b>Product name</b>	CC880 Li-ion Wall Charger
<b>Part Number</b>	YLBC-12-WP-1
<b>Input Power</b>	100-240V ac – 50-60Hz – max 0.3A
<b>Nominal Output Voltage</b>	12V dc
<b>Maximum Output Voltage</b>	12.8V dc



<b>Product name</b>	CC880 Li-ion Battery Vehicle Charger
<b>Part Number</b>	YLBC-12-V-1
<b>Input Power</b>	12-24V dc – max 1.5A
<b>Nominal Output Voltage</b>	12V dc
<b>Maximum Output Voltage</b>	12.8V dc



Specification subject to change without notice.

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C.Scope has a policy of continuous product development and reserves the right to change the design, specification and labelling without notice. All errors and omissions excepted.



All C.SCOPE products are manufactured under a quality system accredited to ISO9001:2015.

The information in this leaflet is believed to be correct at the time of going to press.  
C.SCOPE International reserve the right to change prices at any time without prior notice.

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