TRANSMITTER

Output frequencies	512 Hz/ 9.5 kHz/ 38 kHz/ 80 kHz Dual : Direct mode serves 9.5 kHz & 38 kHz dual mode
Output power	5 watts maximum 1 watt maximum (80 kHz mode only)
Transmitting modes	Direct connection, Inducitive, External coil
Battery Type	Eight LR20 "D" size
Battery Life	Direct : 50 hours (Output 4 mA, 68°F/20°C) Inductive and External coil : 20 hours (50% Output, 68°F/20°C)
Battery Status	Low battery indication
Visual Indication	LCD with backlight
Measuring Function	Line Voltage: AC 0 to 250V
Operating Temperature	-20°C to 50°C / -4°F to 122°F
Material	ABS : shock and cold resistant, IP54
Dimensions	When using : 10.3" x 12.4" x 4.3" (261mm x 314mm x 110mm) When straging : 8.9" x 12.4" x 4.3" (227mm x 314mm x 110mm)
Weight	7.9 lbs. (3.6 kg approx.)

DECEIVED

KECEIVEK	
Active Frequencies	512 Hz/ 9.5 kHz/ 38 kHz/ 80 kHz
Passive Radio	9 kHz to 33 kHz
Passive Power	60 Hz : 45 to 65 Hz 120 Hz : 95 to 125 Hz
Measurement Modes	MODE1 : Peak/Null mode (contains both peak and null features) MODE2 : Peak mode (used for accurate locating) MODE3 : Null mode (used for easy locating)
Digital Level	Indicate horizontal level on LCD of the Receiver
Current value	Current value flowing on the conductor is displayed by milli-Amps.
Battery Type	Six Alkaline LR6 "AA"
Battery Life	24 hours (68°F/20°C)
Visual Indication	LCD with backlight
Operating Temperature	-4°F to 122°F / -20°C to 50°C
Dimensions	26.0" x 5.1" x 10.6" (660 x 130 x 270mm)
Weight	4.7 lbs (2.1 kg) approx. including batteries
Data Recording	Memorized 400 points of the depth / current / frequency
Material	ABS : shock and cold resistant, IP54
Interface	Data transfer port
Audio Output	Internal Speaker, Earphone (optional)





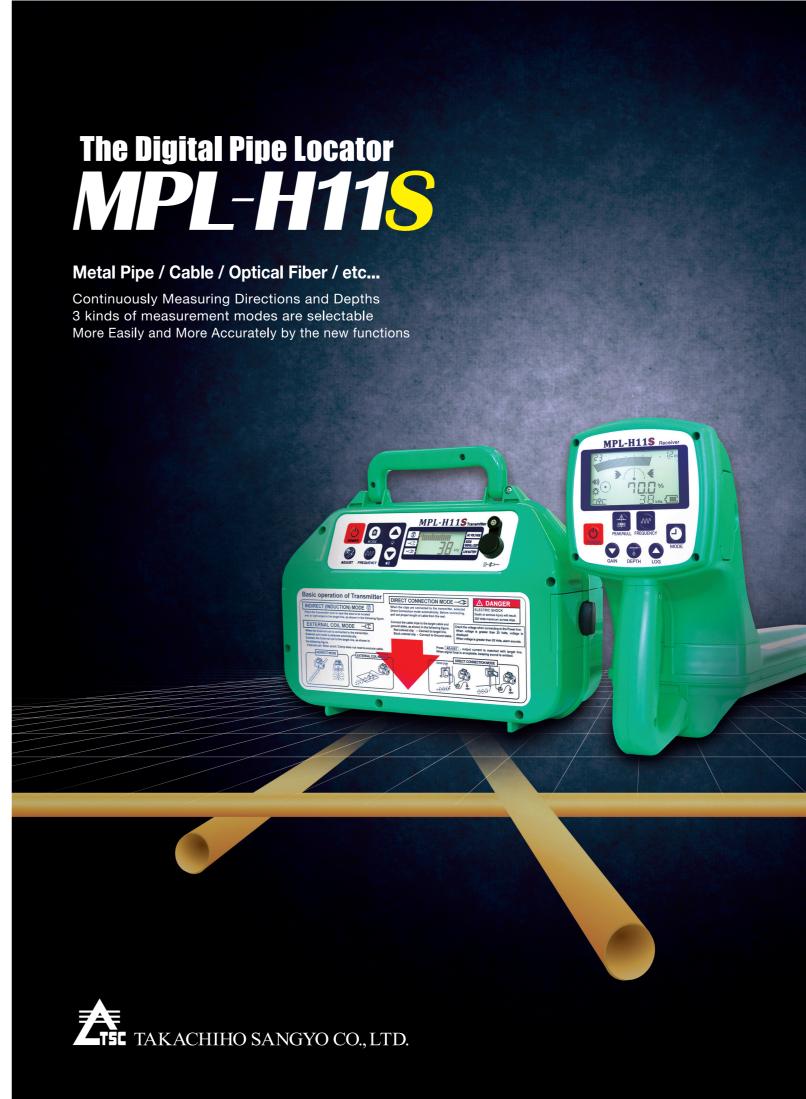


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Your Local Contact

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History of the MPL series Domestic **Overseas** Underground Metal Pipe Locator MPL-H2 Underground cable and pipe locator MPL-H3 Digital display was equipped exported to Asia and the Middle East MPL-H5 exported to Asia, the Middle East, Australia, and the United States Directive mode was equipped MPL-H6 4 type of frequencies enables multi-purpose locating SPOT-D-TEK II MPL-H5 MPL-H7 MPL-H7 3 receiving antennas enables high accuracy measurement exported to the United States SPOT-D-TEK III MPL-H7L Custom type LCD panel 1998 MPL-H7L MPL-H8 SPOT-D-TEK IV MPL-H7 Separated Antenna deep depth model MPL-H7D Data recording was equipped SPOT-D-TEK IV exported to the United States MPL-H10 MPL-H10 exported to the United States, China, and Korea Combined functions of H5 and H7L MPL-H10S GPS MPL-H10S exported to the United States, China, and Korea MPL-H100 2009 exported to the United States, China, and Korea 50th anniversary model MPL-H11 2014 MPL-H11S 2015 MPL-H100

Since we, TAKACHIHO SANGYO CO., LTD., released the very first model of MPL series in 1974, We have been keeping the manufacture and sale of underground measuring instrument using electromagnetic induction method for more than 40 years.

The Locator of MPL series has differential coil which minimizes the influence of the external noise to adversely affect the result of a measurement. Since the release of MPL series, MPL is evaluated with its high measurement accuracy. Customers related to the underground infrastructure of all over the world such as survey companies, power companies, telecom companies, and gas companies have been using MPL series.

For 30 years by the high measurement accuracy, it has been being used with the drill head location measurement in jacking method and with the front-end location measurement in HDD method.

Presently, it equips with three coils in a horizontal direction. It can achieve the high measurement accuracy by the differential method in not only the location measurement but also the depth measurement. Moreover, we offer the new release of various optional products for MPL such

We, TAKACHIHO SANGYO CO., LTD, will make a substantial contribution to maintenance and preservation of underground infrastructure facilities by using the underground survey technology mainly on cable locator.

Strength of MPL Series

Our Original Differential Coil Method

High Noise Resistance

By connecting the both ends of horizontally placed two coils, it is to minimize the measurement error by the outside noise that is known as "differential coil method".

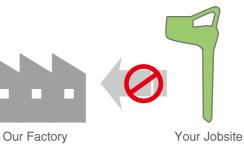


No-Need Calibration

To establish the differential coil method, we, Takachiho products, measure each one of coils' characteristic and adjust its balance.

Coils are connected by lead wire.

Thus, there is no balance error as time passes by.

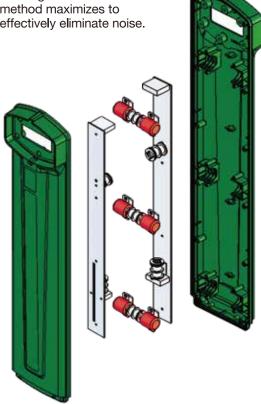


Accuracy:Three Horizontal

Merits by the differential method are usually enjoyed in only location measurement because horizontally placed coil used for a cable locator receiver in only two.

Takachiho products has three horizontal coils. Location and depth measurement are done with differential method.

Our original differential coil method maximizes to effectively eliminate noise.



Accuracy of Inductive Method.

Our original differential coil method reduces the error of the inductive method

There are many spots that External Coil or Direct Connecting Cord are not able to be connected to in the urban area so that it makes Indirect Method to be used. Our product minimizes the environmental noise to affect Inductive Method by the original differential coil method and improves precision of depth measurement and left/right location measurement.







We can detect the buried cables

More "Easily" and "Reliably"

Digital Level

When the Locator inclines at the time of the measurement, the measurement error becomes big. Digital Level installed in the Locator informs the operator the degree of leaning left/right or front/back direction.



Yaw Bar and Digital Level

Yaw Bar indicates the directions of the buried cable. **Digital Level reduces** the measurement errors.

Provide fast and easy detections.

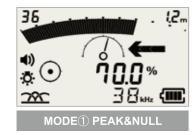
provide fast and easy detections of the buried cable.

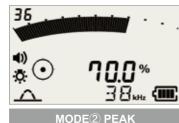


Three measuring modes are selectable.

The best measuring mode can be chosen according to state of the working site.

Five

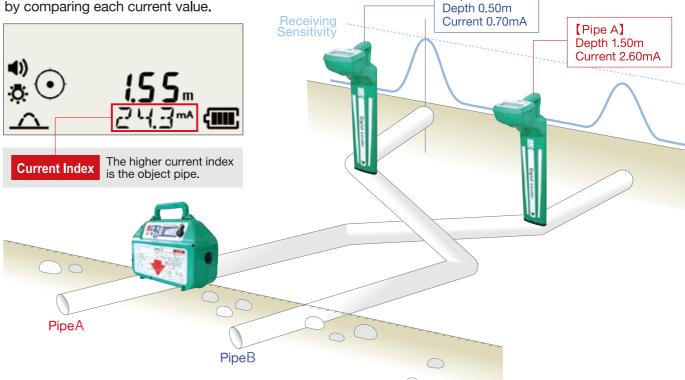






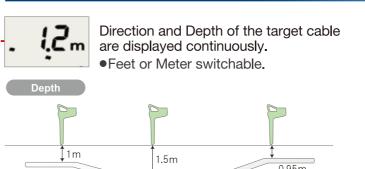
Distinction of the crossing pipes is POSSIBLE.

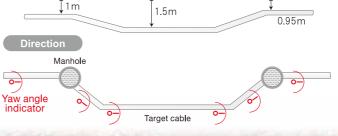
The objective pipe can be distinguished by comparing each current value.



[Pipe B]

Continuous Depth and Direction Display

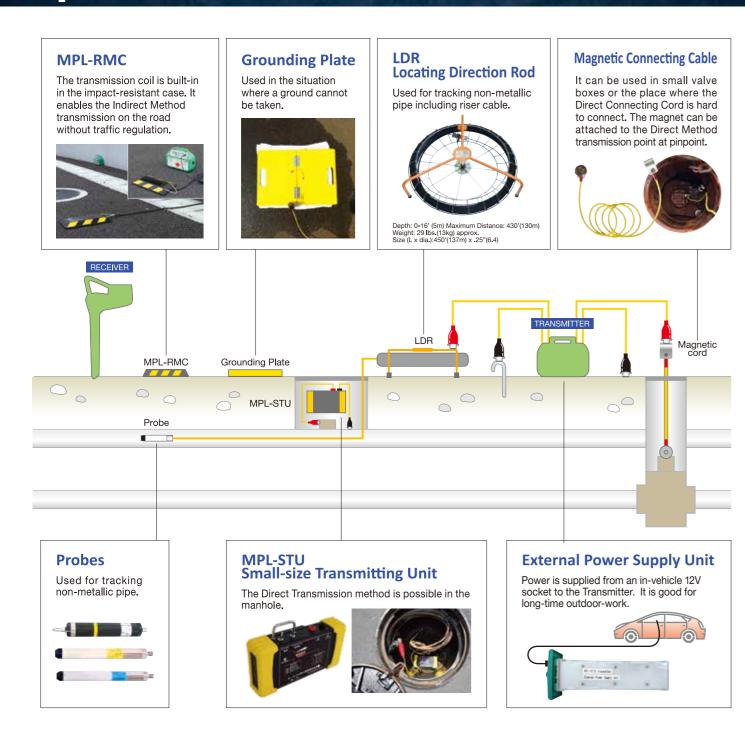








Optional Accessories of MPL-H118 Cable Locator



Locating Direction Rod Mini

Used for tracking non-metallic



Weight: 6.6 lbs. (3kg) approx. Size (L x dia.): 164' (50m) x .17" (4.3mm)

9.5kHz/80kHz **External Coil**

Used for External coil mode.



External Coil for riser cables

Used for External coil mode intended for riser cables.



External **Receiving Pole**

External Coil

for optical cables

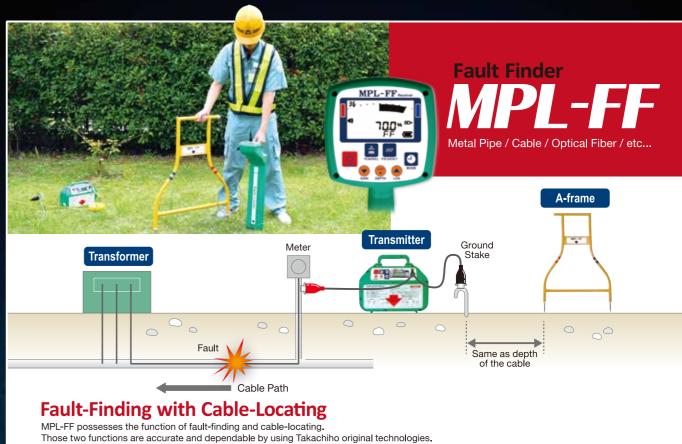
Used for External coil

mode intended for

optical cables.

Used for searching near the guardrails.





MPL-FF can locate cable with its depth.

And it finds ground-return faults of direct buried cable on electric, CATV and telecommunication cables in pinpoint.

MPL-FF is a specialized equipment to do those works with only one tool.

