TR-1

General specification	
Operating temperature	−10° C ∼ +50° C
Material	Shock−resistant plastic
Size (stored)	340 mm (H) X 860 mm (L) X 510 mm (W)
Size (handle deployed)	820 mm ∼ 1185 mm (H) X 1085 mm ∼ 1290 mm (L) X 510 mm (W)
Weight	17 kg
Waterproof Specification	Splash−proof
Power source	
Rechargeable battery	Dedicated 16.4 V lithium ion battery
Standard voltage	14.4 V
Battery life	3 ∼ 5 hours
External power source	AC100 V ∼ 220 V
Charging time	2 ∼ 6 hours
Detection Parameters	
Depth range	50 mm ∼ 1500 mm *
Width measuring	350 mm
Data collection speed	Walking speed around 4 km/hour
Frequency range	135 MHz ∼ 835 MHz (Center frequency 400 MHz)
Detectable material	Metal pipe, Plastic pipe, Cable and Optical fiber
Accuracy of depth estimation	Normal measurement : ±100 mm High−sensitive output measurement : ±300 mm ∼ 500 mm

*Specification may change without prior notice.

*The surrounding environment and quality of soil affects
 the measureable depth and the accuracy of depth estimation.

Simplified Ground Penetrating Radar

TR-1

TAKACHIHO SANGYO CO., LTD.

Iwakura Plant & Overseas Division
10-1, Ehigashi, Higashi-Machi, Iwakura-Shi
Aichi-Ken 482-0041 Japan
TEL +81-587-37-7771

https://www.takachiho-sc.com

TAKACHIHO

NO.23.04.100

Simplified Ground Penetrating Radar
TR-1

- SAVE TIME: Avoid unnecessary digging by scanning for hazards and utilities beforehand.
- SAVE MONEY: Avoid costly utility strikes and damage to equipment by scanning before you dig.
- SAVE LIVES: Avoid injury to workers from utility strikes

## Simple user interface. No complicated menus or displays

Pipe

Tap

Depth indication
0.6

Pipe

Simply tap anywhere on the screen to get a depth estimate for that location.
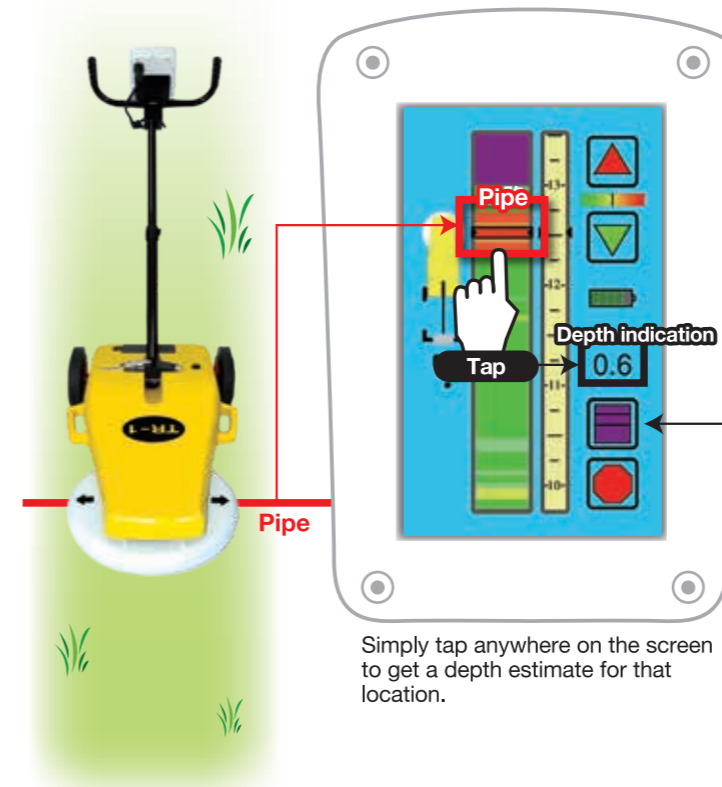
No more complicated waveforms. The TR-1 screen displays the likelihood hazards in a clear color-coded way. No expertise required.

Conventional waveform
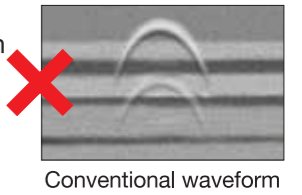
Chronos masking function

Select which depth ranges to display and which to hide using Chronos masking. Identify multiple utilities buried at various depths by isolating individual scan layers.
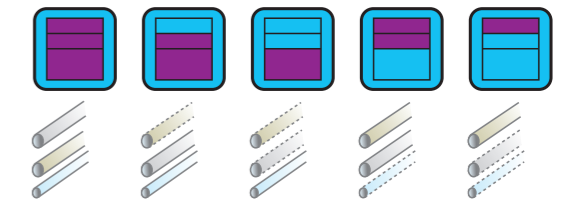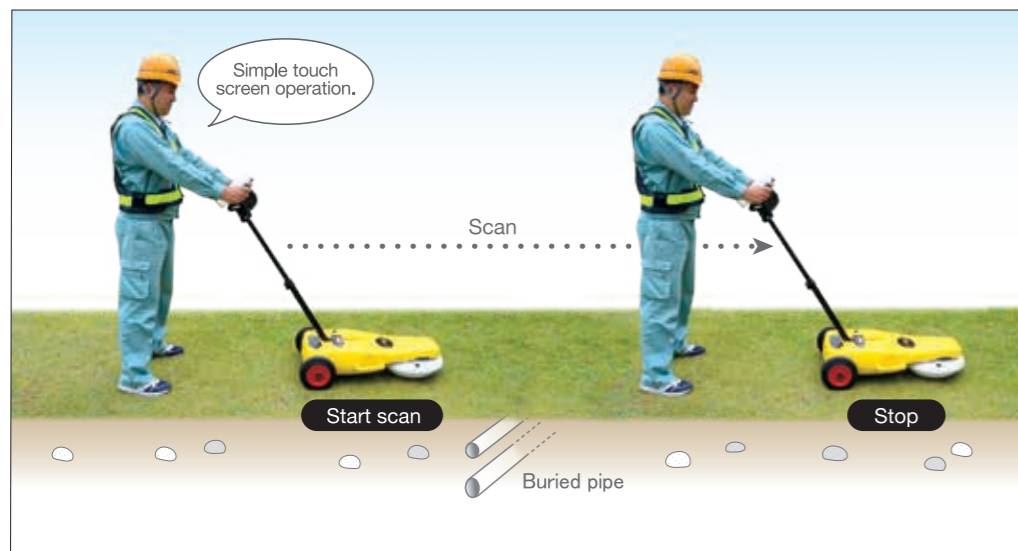
Tapping the masking icon allows the user to toggle which view they prefer, such as top layer only, top and middle, bottom only etc.
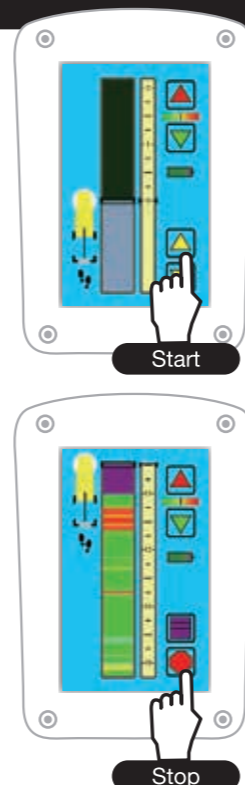
Simple to operate - No training required.

Tap ▲ to begin scan. Confrim the buried object and push ● to end scan. No special training or expertise required.

Simple touch screen operation.

Scan

Start scan

Stop

Buried pipe

Start

Stop

Searchable depth : 50 mm ～ 1500 mm/Width measuring : 350 mm

Use on any surface including irregular terrain

Lightweight

TR-1 can be used on any surface, including unpaved areas.

Standard tires are ideal for:

Off-road tires

Asphalt

Gravel

Grass

Off-road tires are available for irregular terrain such as sandy areas, tall grass or unpaved gravel.

Tires are easy to change.
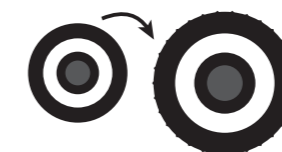
Off-road tires is availabe as an optional accessory.

17kg

TR-1 is lightweigh and compact making it easy to carry from jobsite to jobsite. No set-up or assembly required.

Transfer between work sites