



## Advanced Pipe and Cable Locator

(Solution for underground Pipeline and Cable Locating)



### After Sales Services:

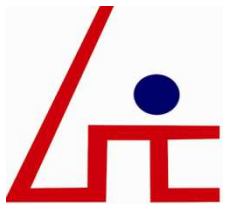
- We have purchased and installed the OEM Calibration Rig.
- We have complete repair facility
- Equipment training provided after supplies

### Optional Accessories:

- Ni-MH rechargeable battery kit with charger for transmitter
- Li-Ion rechargeable battery for receiver
- 5" Signal Clamp
- 12V DC Car Adaptor for powering the transmitter
- Mains adaptor for powering the Transmitter
- Bluetooth & GPS for GIS mapping
- Signal - Direction feature for positive line identification
- Remote antenna for pin-point the cable from bunch of the cables
- A - Frame for fault finding

## Simplifying underground **Pipe & Cable Locating**

- Multi-Frequency pipe and cable locator
- High rejection of power source interference
- Most advance Receiver with high speed dual core processor
- Carbon Fiber Reinforced Antenna Tube and ABS housing
- Sharp TFT ¼ VGA Bright Colour Display of 3.52"
- Antennas: 02 Nos. Peak, 01 Nos. Null and 01 Nos. Compass
- Multiple locating antenna: Null, Peak, Peak Hold & Sonde Mode
- Customised start-up screen (your company logo as start-up screen)
- Locating Modes: Passive, Inductive, Clamp & Direct connection
- Passive Signals: Radio, Power, CP, 50 Hz / 60 Hz, CATV, Sonde
- Inductive Frequencies
- Active Frequencies
- Proportional Left and Right Arrows
- Push buttons for operation and gain control
- Compass-Full 360 Degree Line Direction Indication
- Continuous depth display up to 6 Meter
- Continuous battery status
- 1000 Data Logging
- License free multi-user 'Data Management Software'
- Download data in in .exl, .csv, .text, .kml & .shp
- Auto Time Off feature
- Operating Temp.: -20 Degree to +50 Degree
- Weather Proof: IP54 & NEMA
- Optional Li-Ion Rechargeable Battery Pack for Receiver
- Optional 5" Clamp (coupler) or 18" Flexible Induction Clamp
- Optional Remote Antenna for Particular Cable Identification
- Optional Bluetooth and GPS Modules



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# USING LATEST TECHNOLOGIES FOR BETTER PRODUCTIVITY AND BUSINESS PROFITS

## Technology at work for your

The **Transmitter** (Signal Generator) is used to apply a signal constant current to the ground bed and cable returns the signal back to the transmitter. The **Receiver** takes measurements along the route of cable / pipe and find out the results directly onto the receiver screen

### **Passive Mode** (Use Receiver only):

- 50 Hz: sweep the area for locating energised power cables
- RF (Radio): sweep area for identifying u/g conductive utilities
- Power 50: sweep the area for identifying u/g conductive utilities
- CP: sweep the area for identifying u/g Oil & Gas steel pipelines

**Induction Mode:** Switch ON receiver and transmitter, select same frequency on both receiver and transmitter. Make a minimum distance of 5 Meter between them and start locating while moving both in one direction. Suitable for all conductors buried for minimum 25 Meter in length.

**Direct Connection Method:** Connect output cable to transmitter. Connect Red lead to conductor and black lead to independent ground stake. Select same frequency on both receiver and transmitter and start locating. Transmitter is stationary. Depth measurement is available and suitable for all conductors buried for minimum 25 Meter in length.

**Clamp method (optional):** Connect clamp to transmitter and to conductor. Select same frequency on both receiver and transmitter and start locating. Transmitter is stationary. Depth measurement is available and suitable for all conductors buried for minimum 25 Meter in length.

**Duct Rod and Duct Tracer (optional):** Connect to duct rod for locating duct blockage by locating the Sonde transmitter location. Connect to duct tracer having copper wire; locate the duct and duct blockage point.

May please contact us for further information / assistance

## TECHNICAL SPECIFICATIONS

### **10 Watt Signal Generator:**

- Input supply 12 NOS.XD cell battery pack
- Output Current Settings: 10mA – 1000mA
- Mono LCD Display
- Input DC Supply Socket / Output Socket
- Output Frequencies: 3 / 6/ 512 / 640 / 982 Hz/ 8.19 /9.82/32.8/65.5/200 KHz
- Weight: App. 5 Kgs., Dimension: App. 42 x 18 x 18.5 cms

### **vLocPro2 Receiver:**

- Construction: Carbon Fiber Reinforced Antenna Tube and High Impact thermoplastic (ABS) Injection Moulded Housing
- Weight: App. 2.1 Kgs. & Dimensions: 262L x 122W x 639H in mm.
- Display: Sharp TFT LCD ¼ VGA Colour Display of 3.52" size
- Antennas: 02 Nos. X Peak, 01 Nos. X Null & 01 Nos. X Compass
- Battery Type: 06 Nos. X AA Alkaline Batteries
- Battery Life: 12 hours of intermittent use at 21 Degree C
- Passive Signals: RF, Power, CP, 50Hz / 60 Hz, CATV, Sonde
- Displayed Information:
  - Signal Strength: Moving bar graph & numeric value
  - Mode Indications: Peak, Null, Broad Peak with Arrows and Sonde
  - Proportional Left and Right Arrows
  - Compass: Full 360 Degree Line Direction Indication
  - Customised Start-Up Screen
  - Line Location: Depth & Current Measurement
  - Operating Frequency, Continuous Battery Status & Speaker Volume
  - Bluetooth & GPS Status
  - Configuration Menu and Sub-Menus
- License Free Data Management Software
- Internal 1000 Data Logging
- Down data in .exl, .csv, .text, .kml and .shp file formats
- Depth Range: Up to 6 Meters
- Depth Accuracy: 3% up to 3 Meter, 5% above 3 Meter
- Operating Temperature: -20 Deg. C to + 50 Deg. C
- Weather proof: IP54 & NEMA 4

(All above information; subject to change without notice)

# DATA MANAGEMENT, GPS INFORMATION & GIS MAPPING

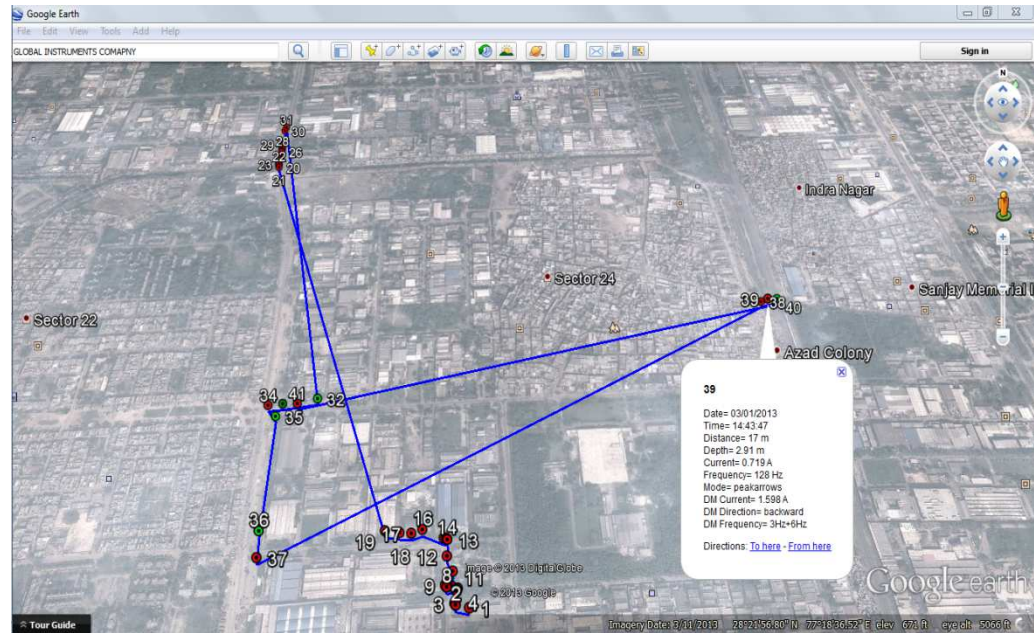
A screenshot of Microsoft Excel showing a table of GPS data. The table has 13 columns: Log, Date, Time, Latitude, Longitude, Distance, Chainage (M), Depth (m), Current (A), Freq (Hz), Mode, Signal Direction, and Remarks. The data is organized into a log format with 31 entries.

Log	Date	Time	Latitude	Longitude	Distance	Chainage (M)	Depth (m)	Current (A)	Freq (Hz)	Mode	Signal Direction	Remarks
1	24/12/2011	11:39:01	22.368165	73.10785806	0	0	3.569	0.043408	320	peakarrows	forward	
2	24/12/2011	11:40:40	22.36803639	73.10778331	15	15	2.247	0.036635	320	peakarrows	forward	
3	24/12/2011	11:41:24	22.36792206	73.10776806	12	27	2.225	0.034539	320	peakarrows	forward	
4	24/12/2011	11:42:42	22.36767639	73.10766639	30	57	2.215	0.035087	320	peakarrows	forward	
5	24/12/2011	11:46:14	22.36823833	73.10807167	75	132	2.864	0.026128	320	peakarrows	forward flashing	
6	06/01/2012	16:06:10	21.6664	72.83795472	82803	82935	14.373	0	32768	broad	none	
7	06/01/2012	16:06:18	21.6664	72.83795167	0	82935	14.373	0	32768	broad	none	
8	06/01/2012	16:12:51	21.66658833	72.83796333	22	82957	19.646	0.000177	32768	peakarrows	none	
9	06/01/2012	16:14:24	21.66667972	72.83796333	9	82966	20	0	32768	broad	none	
10	06/01/2012	16:16:14	21.66668167	72.83797167	0	82966	20	0	32768	broad	none	
11	06/01/2012	16:16:14	21.66668167	72.83797167	0	82966	20	0	32768	broad	none	
12	06/01/2012	16:24:21	21.66666667	72.83793667	3	82969	20	0.000424	32768	null	none	
13	06/01/2012	17:14:55	21.66387306	72.83981972	366	83335	2.056	0.03567	512	peakarrows	none	TEST POINT TLP
14	06/01/2012	17:21:40	21.66355333	72.83993061	39	83374	1.829	0.043808	512	peakarrows	none	
15	06/01/2012	17:22:16	21.66343667	72.84014972	20	83394	1.531	0.042861	512	peakarrows	none	
16	06/01/2012	17:23:54	21.66302306	72.84056833	63	83457	1.515	0.040703	512	peakarrows	none	
17	06/01/2012	17:24:28	21.663005	72.84057333	2	83459	1.535	0.040311	512	peakarrows	none	
18	06/01/2012	17:34:47	21.66188833	72.84171639	171	83630	1.341	0.039625	512	peakarrows	none	
19	06/01/2012	17:36:26	21.66161	72.84198833	41	83671	1.377	0.038527	512	peakarrows	none	
20	06/01/2012	17:38:31	21.66137667	72.84224333	36	83707	1.789	0.035377	512	peakarrows	none	
21	06/01/2012	17:39:46	21.661175	72.84245667	31	83738	1.69	0.035255	512	peakarrows	none	
22	06/01/2012	17:43:11	21.66051833	72.84316833	103	83841	1.237	0.036647	512	peakarrows	none	
23	06/01/2012	17:53:39	21.66412	72.83970333	536	84377	2.151	0.044377	512	peakarrows	none	
24	06/01/2012	17:54:32	21.66442167	72.839585	35	84412	2.137	0.050093	512	peakarrows	none	
25	06/01/2012	17:55:20	21.66466167	72.83951833	27	84439	1.442	0.052619	512	peakarrows	none	
26	06/01/2012	17:56:44	21.66503833	72.83941	43	84482	1.634	0.054039	512	peakarrows	none	
27	06/01/2012	17:57:30	21.66538833	72.83938333	29	84511	0.994	0.052966	512	peakarrows	none	
28	06/01/2012	17:58:20	21.66538667	72.83929833	10	84521	1.132	0.048432	512	peakarrows	none	KM METER POST

Downloaded Sample Data in Excel Format

Downloaded Data have:

1. Log Number
2. Date(when GPS is ON)
3. Time(when GPS is ON)
4. Latitude(when GPS is ON)
5. Longitude(when GPS is ON)
6. Distance in Meters(when GPS is ON)
7. Accumulated Distance in Meters(when GPS is ON)
8. Depth in Meters or Feet
9. Current in Amp.
10. Frequency
11. Mode (Antenna Mode)
12. Signal direction availability information



Google Earth View

- Each record (log no.) creates a pin on Google Map
- ROU line created joining each pin in increasing order
- Google Earth shows the mapped route
- Click on any pin to see the recorded data
- Above map shows the way of working i.e. started with pin 1 to 19, moved from 19 to 20, back from 31 to 32, back from 35 to 36 and moved in another direction from pin 37 to pin 38.