

# RTK Pathfinder

Locate & Map with Data-Driven Innovation



UTTO's Pathfinder combines world-class precision locating performance with UTTO's breakthrough **Locate Assurance™** Cloud.

The UTTO Pathfinder delivers connected locating, transforming your damage prevention operations while scientifically training and incentivizing your field workforce.

Whether your business is high volume 811 tickets or mapping of new construction or legacy utility services, UTTO's technology and products will leave you wondering how you ever managed your field operations before.



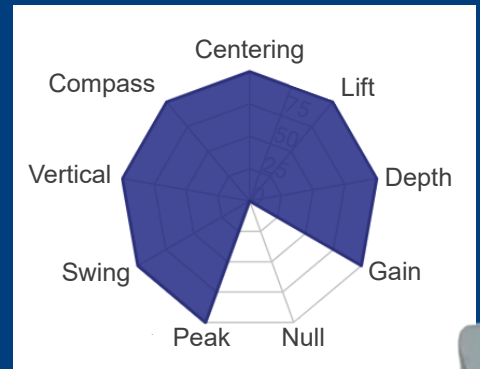
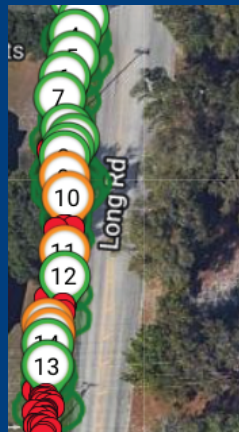
Gives your organization visibility into the quality and productivity of daily locate & mark operations



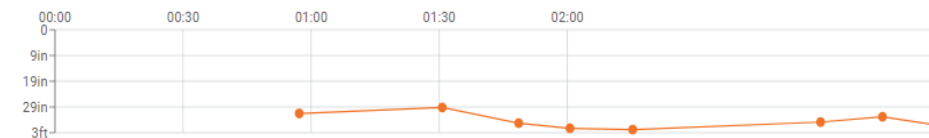
Provides alerts, reports, analytics and risk indicators of every locate or mapping session



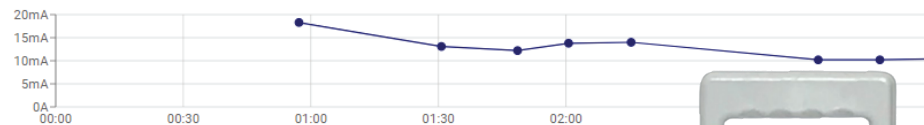
Speeds up your operations: from fast GPS fixes to *targeted* locate site audits



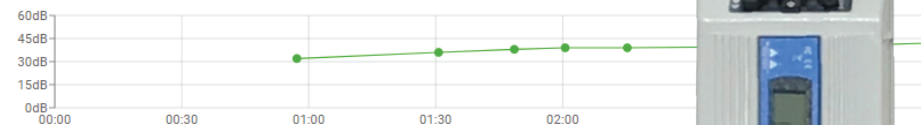
Depth Profile



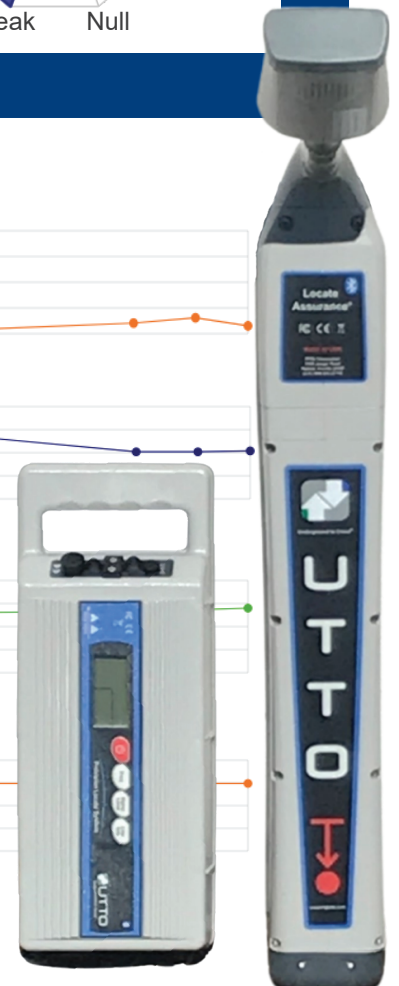
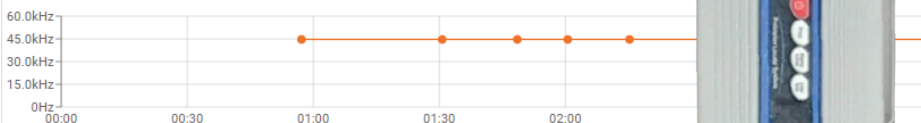
Current Profile



Gain Profile



Frequency Profile



## Receiver Specification



### Frequencies

(Frequency remote selection over P-Link)

#### Active Modes

Low Frequencies: 200Hz, 256Hz, 273Hz, 512Hz, 570Hz, 577Hz, 640Hz, 760Hz, 797Hz, 815Hz, 870Hz, 920Hz, 940Hz, 1,010Hz, 1,020Hz, 1,100Hz, 1,450Hz

Medium Frequencies: 4,010Hz, 8,192Hz, 8,400Hz, 8,900Hz, 9,200Hz, 32,768Hz, 33,000Hz

High Frequencies: 65,536Hz, 82,315Hz, 82,700Hz, 83,000Hz, 93,000Hz, 116,000Hz, 117,850Hz, 145,000Hz, 131,000Hz, 200,330Hz\*, 262,000Hz\*, 476,527Hz\* (\*permitted by law)

#### Passive Modes

Power Modes: 50-60Hz/150Hz/180Hz/250Hz/300Hz/350Hz/420Hz/450Hz/540Hz  
Rectified Cathodic Protection (CP) Modes: 50Hz or 60Hz  
Radio Frequency: 14kHz – 22kHz Band

#### Sonde Modes

512Hz / 640Hz / 815Hz / 8,192Hz / 32,768Hz

### Antenna Modes

Peak (single horizontal antenna)  
Null (single vertical antenna)

Pinpoint Peak (dual horizontal antennas)  
Simultaneous Peak/Null

Directional Guidance (left/right)

### Battery Life & Power Source

Intermittent use 50 hours (40 hours RTK GPS option & P-Link). Lithium Ion with internal charge management

### Physical & Environmental

Weight: 4.2lbs / 1.9 kg  
Dimensions: 30.3" x 9.4" (77 cm x 24 cm)  
Ingress Protection Rating: IP65 (dust and low-pressure water ingress)  
Operating Temperature: -4° F to +133° F (-20° C to +55° C )

### Locate Performance

Sensitivity: Detects 5uA at 1m @ 65kHz  
Dynamic Range: 126 dB  
Depth Measurement: To 50 feet/15m

Depth Accuracy: Typically >5% of depth  
LCD Bargraph: Manual Gain (L/R guidance auto gain)  
Auto Display: Depth & Current Measurement

### Locate Assurance™

"Trace" production mode or "Pinpoint" Mapping mode, compatible with UTTO Cloud Platform \*\*  
Connectivity: Bluetooth Classic to UTTO Mobile™ Application  
Locator Firmware Updates: Over the Air via UTTO Mobile™ Application (July 2021)  
UTTO Locate Training & Certification Simulator: Optional Upgrade

### GNSS Performance \*

Standard: 3ft/1m CEP horizontal accuracy (no correction)  
Advanced (optional): 6" (0.15cm) CEP with UTTO RTK

Time to Fix – Cold Start 45 seconds  
Time to Fix - Warm Start 8 seconds

### Compliance

FCC Part 15

## Transmitter Specification

### Frequencies

Operating Frequencies: See UTTO Pathfinder Receiver "Active Frequencies"  
(Custom frequencies available on request)

Optional control of frequency mode via remote Pathfinder Receiver P-Link comms (Dual Freq Line Output)

### Display Indicators

Signal load indicator, Output Voltage and Current Measurement, Ohms Resistance Measurement, Power level, frequency, mode, battery status and low level alert, Low battery warning transmitted to receiver over P-Link

### Signal Output

Direct Connection:  
Output Load Matching: Automatic from 5 to 25k ohms  
Dual frequency output mode (via P-Link remote control)

Signal Clamp Mode: 8kHz to 480kHz  
Induction Mode: 33kHz and above

### Output Power

Adjustable to 10 Watts for low & med frequencies (1 Watt for high frequencies)

### Battery Life & Power Source

40 to 60 hours intermittent use (dependent on load, frequency, power setting)  
Rechargeable maintenance free Lithium Ion

### Physical & Environmental

Weight: 6lbs / 2.7 kg  
Dimensions: 16" x 6.32" x 6" (41cm x 16cm x 15cm)  
Ingress Protection Rating: IP65 (dust and low-pressure water ingress)  
Operating Temperature: -4° F to +133° F (-20° C to +55° C )

### Compliance

FCC Part 15, Bluetooth

#### WARRANTY

36 Months (3 Years) Upon registration  
Warranty period activated from date of delivery against defects in material and workmanship (EXCEPT BATTERIES) on all instruments. Warranty is void if, after having received the instrument in good condition, it is subjected to abuse, unauthorized alteration, or casual repair. We will repair or replace products that prove to be defective during warranty period. NO OTHER WARRANTY IS EXPRESSED OR IMPLIED. THE WARRANTY DESCRIBED IN THIS PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. WE ARE NOT LIABLE FOR ANY/ALL CONSEQUENTIAL DAMAGES.

\*\*Software: UTTO Digital Services, Cloud Platform and Licenses not included.

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