

UT_POLE

The smartest access mean up to 12m

Pipe-racks, pressure vessels, small tanks, internal heat insulated tanks, low thickness roofs... Many UT measures are performed at heights, causing dull preparation workload and residual risks.

A majority of those NDT operations are located under a 12m height, causing scaffold sprout during shutdowns. Huge saves of time and energy would be collected in the operation of a simple, portable, and versatile access mean.

After a 2 year's iterative project with HSE teams of various industries and field controllers, the UT_POLE has become the most versatile tool for UT, VT, and surface preparation at heights.





SIMPLICITY MEETS SAFETY

The UT_POLE has been designed from the pole itself to the probe holders to protect the operator.

The operator safety has been secured thanks to an extensive compression, flexion, abrasion study on pole, completed with lab and field testing campaign.

Each probe carrier, including UT B-scan, RVT, cleaning has been designed to be as reliable as if the operator was operating.

FEATURES

- **Strong** : rugged and IP67 weatherproof,
- **Versatile** : 12m range from ground, roof, top,
Safe : work-at-height free, on-purpose designed pole/clamps, remote EX detector, overextend safety line,
- **Operability** : light workload preparation,
- **Accurate** : uncompromised UT/VT/cleaning performances.



USE CASES

UT_POLE is the perfect tool for visual inspection under pipe supports, unknown thickness roofs, bolted tanks, internal heat-insulated tanks.



For a safer world.



SPECIFICATIONS

INSPECTED SURFACE

- Plates : Carbon steel & Stainless steel
- Wall temperature : 0°C to 100°C
- Plate thickness : 2 - 50mm
- Max coating thickness : 1mm
- Minimum surface diameter : 16"

CARRIER

- Dimensions : 27X19X10 cm
- Lightweight : 2kg
- Magnetics : 15kg magnetic hold
- Water resistant, IP67
- Rugged connectors
- Encoding precision : 0.1% FS
- 12m pole, 5kg

WATER TANK

- Capacity : 5 or 20L
- Pumping : Batteries
- Flow : Adjustable +/- 1L/min

BATTERY

- Tension : 24V DC
- Type : Batteries
- Autonomy : 5h

ULTRASONIC MEASUREMENTS

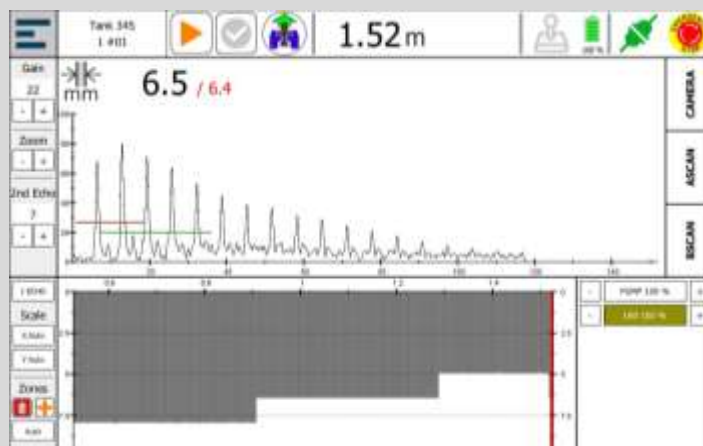
- Sensors type : UT, dual Emission/Reception
- Standard precision : +/- 0.15mm
- Frequency/Diameter : 5Mhz/13mm
- Voltage : 0V - 200V
- Sampling frequency : 80Mhz
- Adjustable gain : 0 - 60 dB
- Visualization : A&B-scan, display
- Reporting : automated excel generation
- Post inspection data modification

SIGNAL PROCESSING

- Hardware : Panasonic CF31 or CF19
- Gates : Adjustable
- Display : A&B-scan, real time
- Date record : A&B-scan
- Save format : .csv ; .jpg

OPERATING CONDITIONS

- Operating temperature : from 1° to 40°C
- Wind : <10knts
- Rain : Yes, please.





ABOUT US

ROBOPLANET develops NDT equipment since 2008 in a wide range of industries : Marine, Defense, Energy and Heavy Industry. We aim to provide safe, performant and cool equipment for NDT teams in their daily jobs. 14 years of experience, feedback and partnership with key asset owners and field experts allow us to build the future of NDT.

OTHER PRODUCTS

- **ALTISCAN V2** : remotely controllable magnetic crawler,
- **UT ROVER** : remote rover for no man entry areas,
- **Software** : automated data recording and analysis.

REFERENCES



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