

# PosiTector® **UTG** Series

## *Ultrasonic Thickness Gage*

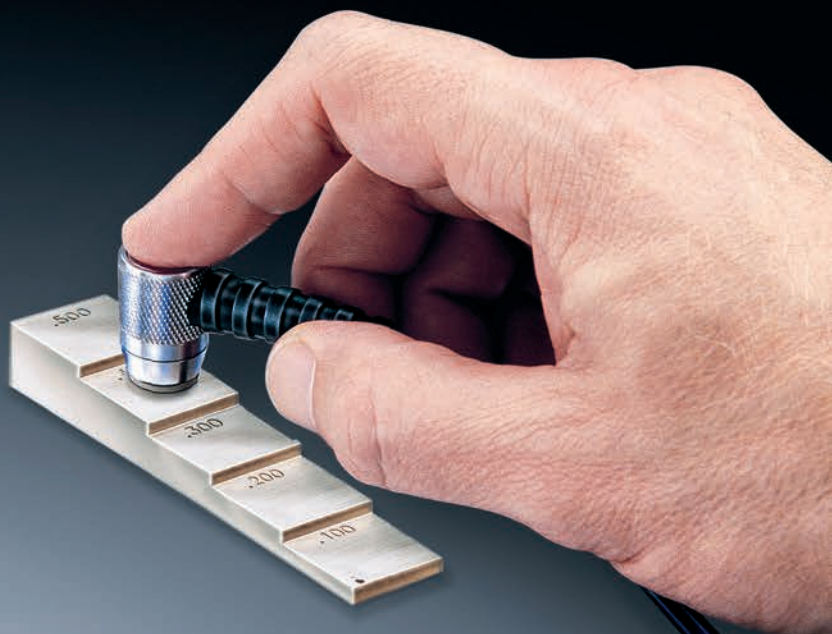
Measures the wall thickness of materials such as steel, plastic and more



UTG C shown



**UTG M Thru-Paint models** measure the metal thickness of a painted structure without having to remove the coating.



**DeFelsko®**  
The Measure of Quality

 Bluetooth®



Available on the  
App Store



# PosiTector® *UTG Series*

## All Gages Feature...

### Simple

- Pre-programmed velocities—simply select from a list of common materials or enter your own with ease
- **SmartCouple™** mode eliminates unintentional decoupling—ensures continuous measurements while measuring on scaled or pitted surfaces—ideal for analyzing large areas using multiple passes
- RESET feature instantly restores factory settings

### Durable

- Solvent, acid, oil, water and dust resistant—weatherproof
- Shock-absorbing, protective rubber holster with belt clip
- Two year warranty on gage body AND probe

### Accurate

- Precision transducers provide fast, accurate readings
- Certificate of Calibration showing traceability to NIST included
- Conforms to national and international standards including ASTM E797
- Built-in temperature compensation ensures measurement accuracy

### Versatile

- PosiTector body accepts all PosiTector probes easily converting from an ultrasonic wall thickness gage to a coating thickness gage, surface profile gage, dew point meter, soluble salt tester, or hardness tester
- High contrast LCD with backlit display
- Uses alkaline or rechargeable batteries (built-in charger)

### Powerful

- Min Scan mode—take continuous readings and record min/max thicknesses — ideal for quick inspection over a large area
- Continually displays/updates average, standard deviation, min/max thickness and number of readings while measuring
- Screen Capture—save screen images for record keeping and review
- Sealed USB port for fast, simple connection to a PC and to supply continuous power. USB cable included.
- PosiSoft USB Drive—stored readings and graphs can be accessed using universal PC/Mac web browsers or file explorers. No software required.
- Includes PosiSoft suite of software for viewing and reporting data

### Standard Models

**Includes ALL features as shown on left plus...**

- Storage of 250 readings per probe—stored readings can be viewed or downloaded

### Advanced Models

**Includes ALL features as shown on left plus...**

- Storage of 100,000 readings from multiple probes in up to 1,000 batches and sub-batches
- A-Scan with adjustable Gain and screen capture. **NEW!** UTG M and UTG P probes include dual cursors to measure the distance between echoes
- B-Scan—displays a cross sectional profile of the test material
- Live graphing of measurement data
- WiFi technology wirelessly synchronizes with PosiSoft.net and downloads software updates
- **Bluetooth® 4.0 Technology** for data transfer to a mobile device running the PosiTector App or optional portable printer. **BLE API** available for integration into third-party software
- Onscreen Batch Annotation — add notes, change batch names and more with built-in QWERTY keyboard
- Integrate with third-party software, drones, ROVs, PLCs, and robotic devices using several industry-standard communication protocols



A-Scan



B-Scan

For a complete comparison of the Standard and Advanced features visit [www.defelsko.com/UTG](http://www.defelsko.com/UTG)

## PosiSoft® ...**FREE SOLUTIONS** for viewing, analyzing and reporting data:



### PosiSoft Desktop

Powerful desktop software for downloading, viewing, printing and storing measurement data. Includes customizable, templated PDF Report Generator. No internet connection required.

### PosiSoft.net

A web-based application offering secure centralized management of readings. Includes customizable, templated PDF Report Generator. Access your data from any web-connected device.



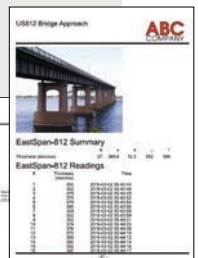
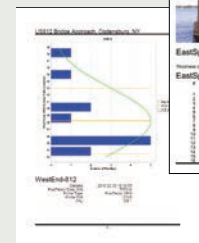
### PosiTector App

Mobile app connects PosiTector Advanced instruments, the PosiTector SmartLink and the PosiTest AT-A to your *iOS* or *Android* smart device.



### PosiSoft USB Drive

A simple gage interface to retrieve data in a manner similar to USB flash drives, cameras, or digital audio players. No software to install or internet connection required.





# Select from Six Models

## Corrosion Probes

Measures the wall thickness of materials such as steel, plastic and more. Ideal for measuring the effects of corrosion or erosion on tanks, pipes or any structure where access is limited to one side.



**UTG CA**  
for one-handed operation

### Cabled Probe — UTG C

- 5 MHz Dual Element transducer with cabled probe

### NEW Integral Probe — UTG CA

- 5 MHz Dual Element transducer with integral probe
- Same specifications and operation as the popular UTG C but with a convenient integral configuration — ideal for one-handed operation

### Xtreme Probe — UTG CX

- 5 MHz Dual Element transducer with braided stainless steel cabled probe
- Durable cable and heavy-duty strain relief for demanding applications



### NEW Low Frequency Probe — UTG CLF

- 2.25 MHz Dual Element transducer with cabled probe
- Designed for measuring attenuative materials such as cast iron
- Proprietary algorithm distinguishes back wall reflections from grain noise (reflections) found in cast materials



**UTG CLF**  
for cast materials

## Multiple Echo Probe

Features Thru-Paint capability to quickly and accurately measure the metal thickness of a painted structure without having to remove the coating. Also ideal for measuring sandblasted materials and other applications requiring a more durable wear face.

### Multiple Echo Probe — UTG M

- 5 MHz contact probe with wear resistant alumina probe tip and cabled probe
- Multiple-Echo technique averages 3 or more echoes for accurate and reliable readings
- Toggle between Single and Multiple-Echo modes
  - Multiple Echo mode eliminates coating thickness
  - Single Echo mode detects pits/flaws and increases measurement range



**UTG M1**  
Standard model  
in memory mode

## Precision Probe

Designed for high resolution measurements and thin materials including metals and plastics. Automatic Multi-Echo mode ensures the best accuracy on thin metals.

### NEW Precision Probe — UTG P

- 15 MHz Single Element Delay Line with cabled probe
- Field replaceable transducer
- Auto Single or Multiple-Echo mode depending on material and thickness
- Automatic probe tip temperature compensation
- Ideal for thru-paint applications to quickly and accurately measure the metal thickness of a painted structure without having to remove the coating



**UTG P**  
for high resolution  
and thin materials

### Ultrasonic Wall Thickness Probes

| Application           | Corrosion                             |            | Corrosion Xtreme | Low Frequency         | Multiple Echo                         |                                      | Precision                          |                                       |
|-----------------------|---------------------------------------|------------|------------------|-----------------------|---------------------------------------|--------------------------------------|------------------------------------|---------------------------------------|
| Model                 | UTG C                                 | NEW UTG CA | UTG CX           | NEW UTG CLF           | UTG M                                 |                                      | NEW UTG P                          |                                       |
| Probe Type            | 5 MHz Dual Element                    |            |                  | 2.25 MHz Dual Element | 5 MHz Contact                         |                                      | 15 MHz Single Element Delay Line   |                                       |
| Mode                  | Single Echo                           |            |                  |                       | Single Echo                           | Multiple Echo                        | Steel                              | Plastic                               |
| Measurement Range*    | 0.040" to 5.000"<br>1.00 to 125.00 mm |            |                  |                       | 0.100" to 5.000"<br>2.50 to 125.00 mm | 0.100" to 2.500"<br>2.50 to 60.00 mm | 0.008" to 0.475"<br>0.2 to 12.0 mm | 0.005" to 0.175"<br>0.125 to 4.500 mm |
| Thru-Paint Capability | No                                    |            |                  |                       | Yes                                   |                                      |                                    |                                       |
| Resolution            | 0.001"<br>0.01 mm                     |            |                  |                       | 0.001"<br>0.01 mm                     |                                      | 0.0001"<br>0.002 mm                |                                       |
| Accuracy              | ± 0.001"<br>± 0.03 mm                 |            |                  |                       | ± 0.001"<br>± 0.03 mm                 |                                      | ± 0.0004"<br>± 0.01 mm             |                                       |

\* Measurement range is for carbon steel and depends upon surface condition, temperature and material.

## Rugged Features...

Sealed USB Port  
for communicating  
with a PC or Mac

Onscreen material or  
velocity display

**WEATHERPROOF**

High contrast color  
LCD with backlit display

Scratch/solvent/impact  
resistant lens

Water and dust  
resistant

Multi-function  
navigation button

Solvent, acid, oil  
resistant, high grade,  
industrial strength  
housing

**UTG C3**  
Advanced model  
shown in B-Scan

Zero Plate

**All Gages Come Complete** with ultrasonic gel, protective rubber holster with belt clip, wrist strap, 3 AAA alkaline batteries, instructions, protective lens shield, nylon carrying case with shoulder strap, Long Form Certificate of Calibration traceable to NIST, USB cable, PosiSoft Software, two (2) year warranty on body and probe.

**Size:** 146 x 61 x 28 mm (5.75" x 2.4" x 1.1")

**Weight:** 140 g (4.9 oz.) without batteries

Conforms to ASTM E797



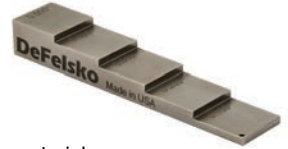
## Ordering Guide

| Application | Corrosion |          | Corrosion Xtreme | Low Frequency | Multiple Echo | Precision |
|-------------|-----------|----------|------------------|---------------|---------------|-----------|
| Probe Type  | Cabled    | Integral | Cabled           |               |               |           |
| Standard    | UTG C1    | UTG CA1  | UTG CX1          | UTG CLF1      | UTG M1        | UTG P1    |
| Advanced    | UTG C3    | UTG CA3  | UTG CX3          | UTG CLF3      | UTG M3        | UTG P3    |
| Probe Only  | PRBUTGC   | PRBUTGCA | PRBUTGCX         | PRBUTGCLF     | PRBUTGM       | PRBUTGP   |

## Options

### Calibration Test Blocks

to fulfill both ISO and in-house quality control requirements. Available in Imperial and Metric.



### Ultrasonic Couplant

glycol gel facilitates sound propagation through materials. Sold in packs of two or cases of twelve.

### Replacement Transducer

field replaceable transducer for PosiTector UTG P only.

### Bluetooth™ Printer

receives data from Advanced Models

### Rechargeable Batteries

a set of eneloop NiMH AAA batteries

### AC Power Kit

for continuous operation or battery charging — works in any country

### Replacement Zero Block

for PosiTector UTG CA only

### PosiTector Probes

PosiTector bodies accept all PosiTector probes easily converting from a coating thickness gage to a surface profile gage, dew point meter, soluble salt tester, hardness and ultrasonic thickness gage.



**UTG C3**  
Advanced model  
with A-Scan





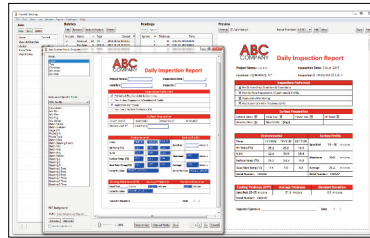
# PosiSoft® Suite of Software

Four FREE and unique ways to view and report your PosiTector and PosiTest data

## PosiSoft Desktop — PC/Mac

Powerful desktop software for downloading, viewing, printing and archiving measurement data. No internet connection required.

- Import readings directly from the gage via USB or from legacy PosiSoft desktop versions
- Synchronize measurement data including readings, notes and pictures to and from PosiSoft.net
- Import/Export Templates and Jobs to share with other users
- Import PDF forms and overlay **Custom Fields** for automatic population of inspection and measurement data
- Report preview automatically refreshes as changes are made



### Prompted Batch Mode

Create pre-defined batches with onscreen text and image prompts for each reading and upload to PosiTector 6000 gages (*Advanced models only*).

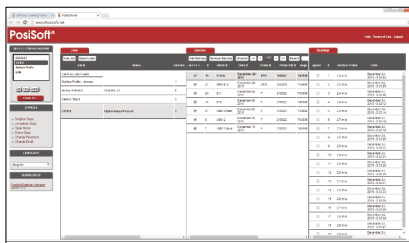
- Ideal for ensuring a consistent measurement pattern for repetitive jobs or when specific measurement locations are required
- Create and store multiple templates for different jobs



## PosiSoft.net — Web-based

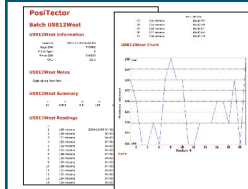
A web-based application offering secure centralized management of readings. Access your data from any web-connected device.

- Synchronize data when connected via USB or WiFi
- Synchronize measurement data including readings, notes and pictures with PosiSoft Desktop and PosiTector App
- Securely store measurement data in the cloud and share with authorized users via a secure login



*Jobs      Batches      Readings*

## PosiSoft USB Drive — Gage Based



A simple gage interface to retrieve data in a manner similar to USB flash drives, cameras, or digital audio players. No software to install or internet connection required.

- View and print readings and graphs using universal PC/Mac web browsers and file explorers
- Measurement data can be printed quickly from a formatted HTML report or exported in .CSV format for further analysis in spreadsheets
- Simple file management - Copy and paste measurement data from the PosiTector to a local folder on your computer, network folder or cloud drive
- Access stored screen captures (snapshots) of the PosiTector display



PosiTector and PosiTest AT-A instruments can integrate with third-party software, drones, ROVs, PLCs, and robotic devices using several industry-standard communication protocols.

## PosiTector App — Mobile

Mobile app connects PosiTector Advanced instruments, the PosiTector SmartLink and the PosiTest AT-A to your *iOS* or *Android* smart device.

- Auto pairing Bluetooth BLE connection
- Automatically generate user-formatted reports and share via email, text, cloud storage services like Dropbox, and more
- Export readings to PosiSoft Desktop or synchronize readings to and from PosiSoft.net for further reporting and archival options

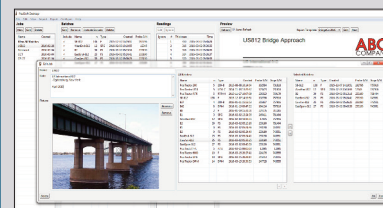
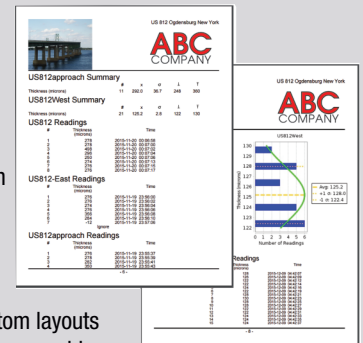


## PosiSoft Custom PDF Report Generator

Easily create reports from your measurement data in seconds.

featured on  
PosiSoft Desktop  
PosiSoft.net  
PosiTector App

- Include inspection information such as on-site pictures, screen captures, notes and more to communicate important details
- Create and save multiple custom layouts as templates – insert cover pages, add logos/images, and select font and point size
- Select the information to include for each product type – charts, histograms, readings, time stamps and more
- Compile multi-batch reports from one or more probes and instrument types
- Export readings as comma separated value (.CSV) files which can easily be imported into Excel and other supporting applications



**Jobs** feature consolidates batches into groups to keep measurement data organized and to quickly create multi-batch reports (not available on PosiTector App)

## PosiTector Developer Resources

including Bluetooth 4.0, WiFi, USB Keyboard, and USB Serial

**DeFelsko®**  
The Measure of Quality

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