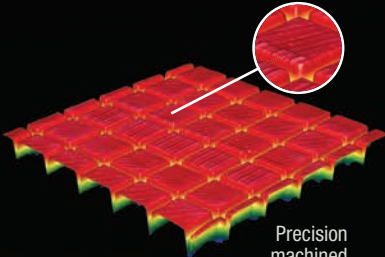


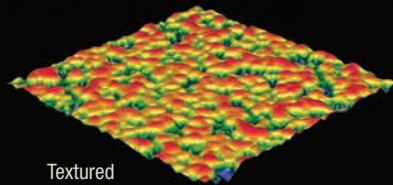
PosiTector® **RTR3D**

Replica Tape Reader

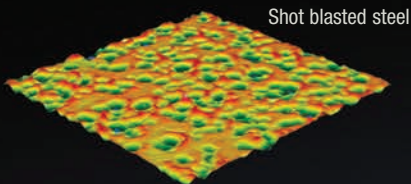
IP65



Precision
machined
plastic



Textured
mold



Shot blasted steel



Measures and
records surface
profile parameters
using replica tape



For use with **OPTICAL Grade**
Testex™ Press-O-Film™ Replica Tape



Advanced model shown

DeFelsko®
The Measure of Quality

 **Bluetooth®**


WiFi

Available on the
App Store



PosiTector® **RTR3D**

All Gages Feature...

Simple

- Measures peak height (H_L) and common 2D/3D profile parameters such as R_a , R_z , S_q , S_{pd} , and more (see inset below)
- Ideal for measuring on flat, curved, or irregular surfaces
- **NEW** Larger 2.8" impact resistant color touchscreen with redesigned keypad for quick menu navigation
- **NEW** On-gage help explains menu items at the touch of a button
- RESET feature instantly restores factory settings

Durable

- **NEW** Weatherproof, dustproof, and water-resistant—IP65-rated enclosure
- **NEW** Ergonomic design with durable rubberized grip
- Rugged indoor/outdoor instrument—ideal for field or laboratory use
- Shock-absorbing protective rubber holster for added impact resistance
- Two year warranty on gage body AND probe

Accurate

- Certificate of Calibration (containing R_a and R_t measurements) showing traceability to an accredited national laboratory included
- Conforms to national and international standards including ISO and ASTM

Versatile

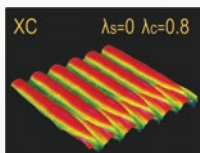
- PosiTector body accepts all PosiTector RTR, SPG, 6000, 200, DPM, IRT, SST, SHD, BHI, and UTG probes easily converting from a surface profile gage to a coating thickness gage, dew point meter, soluble salt tester, hardness tester, or ultrasonic wall thickness gage
- Selectable display languages
- **NEW** Auto rotating display with Flip Lock

Powerful

- Calculates and records all fourteen 2D and 3D parameters (below) with each measurement
- **NEW** Screen Capture—save screen images for record keeping and review
- **NEW** Up to 30% longer battery life
- 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.
- Every stored measurement is date and time stamped
- Includes PosiSoft suite of software for viewing and reporting data
- Apply short and long cutoff filters and discard lengths to optimize the analysis for a specific application
- Orient the 2D trace between horizontal, vertical and diagonal (XY, YX)

2D Parameters – 'R' – Profile Parameters

R_a	Roughness average
R_q	Root mean square roughness
R_p	Maximum profile peak height
R_v	Maximum profile valley depth
R_t	Total profile height
R_z	Average maximum height of the profile
R_{pc}	Peak count per unit length



R_a	6.3	H_L	65
S_a	6.9	S_{pd}	82
microns			

Typical display of the Advanced model

3D Parameters – 'S' – Height/Amplitude

H	Average maximum peak-to-valley height
S_a	Average roughness
S_q	Root mean square roughness
S_z	Maximum area peak-to-valley height
S_p	Maximum area peak height
S_v	Maximum valley depth
S_{pd}	Areal peak density

Optical Grade Tape is required for measuring 2D/3D parameters

Select Standard or Advanced Features

Standard Models

Includes ALL features as shown on left plus...

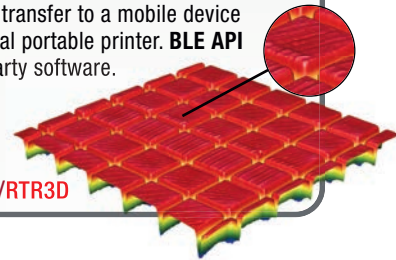
- **NEW** Storage of 1,000 readings per probe—stored readings can be viewed or downloaded

Advanced Models

Includes ALL features as shown on left plus...

- **NEW** Storage of 250,000 readings from multiple probes in up to 1,000 batches
- Live graphing of measurement data
- Download high resolution Surface Data Files (.SDF) for analysis in the included PosiSoft or third-party software
- Generates two dimensional (2D) and three dimensional (3D) thumbnail images. Ideal for inclusion into reports and confirming consistent blasting results.
- **NEW** Touchscreen keyboard for quickly renaming batches, adding notes, and more
- 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.

For a complete comparison of the Standard and Advanced features visit www.defelsko.com/RTR3D



Ordering Guide	Peak Height/2D/3D
Standard	RTR3D1
Advanced	RTR3D3
Probe Only	PRBRTR3D

Measuring Range (H)	20 – 115 μ m	0.8 – 4.5 mils
Measuring Range (Rt)	10 – 115 μ m	0.4 – 4.5 mils
Minimum Roughness (R_a)	2 μ m	0.08 mils/80 μ in
Accuracy (H)	$\pm 5 \mu$ m	± 0.2 mils
Accuracy (Rt)*	$\pm (5 \mu$ m + 5%)	$\pm (0.2$ mils + 5%)
Accuracy (R_a)*	$\pm (0.25 \mu$ m + 5%)	$\pm (0.01$ mils + 5%)
Anvil Pressure	1.1 Newtons	110 grams-force
Anvil Size	$\varnothing 6.35$ mm	$\varnothing 0.25$ inches
Field of View	3.8 x 3.8 mm	0.149 x 0.149 inches
Lateral Sampling	3.7 μ m	0.145 mils
Vertical Resolution	100 nm - 2D/3D 10 nm - SDF	3.93 μ in - 2D/3D 0.393 μ in - SDF
Resolution	0.1 μ m	0.01 mils

* When measured using Optical Grade X-Coarse Replica Tape

ALL GAGES COME COMPLETE with one roll of Optical Grade X-Coarse tape, stainless steel burnishing tool, burnishing ball, 5 cleaning cards, check shim(s), replica tape holder, microfiber cleaning cloth, surface cleaning putty, protective rubber holster, wrist strap, 3 AAA alkaline batteries, instructions, nylon carrying case with shoulder strap, protective lens shield, Long Form Certificate of Calibration (containing R_a and R_t values) traceable to an accredited national laboratory, USB cable, PosiSoft Software, two (2) year warranty on body and probe.

Conforms to ASME B46, ASTM D4417/D7127, ISO 8503-5, NACE SP287, SSPC-PA 17, SSPC-SP5, SP6, SP10, SP11-87T and others.

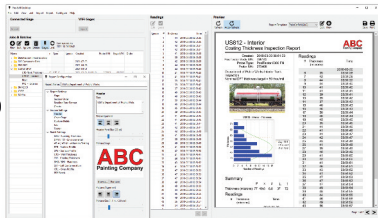
PosiSoft® Suite of Software

Powerful ways to view and report your PosiTector and PosiTest data

PosiSoft Desktop — PC/Mac

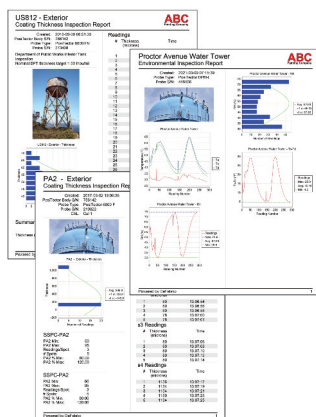
Powerful desktop software for downloading, archiving, and reporting measurement data.

- Import readings directly from the gage via USB, WiFi, or legacy PosiSoft Desktop versions
- **Jobs feature** consolidates batches into groups to keep measurement data organized and to quickly create multi-batch reports
- Fully integrates with PosiSoft.net—backup and synchronize jobs, batches, readings, and report templates to the cloud (see inset at right)
- Export readings as .csv (comma separated value) files for easy import into Excel and other spreadsheets



Professional, Custom Reports

- Compile single or multi-batch reports from multiple probes and instrument types
- Add pictures, screen captures, notes, and more with an onscreen live preview
- Instantly create professional reports from pre-formatted report templates
- Design custom layouts and templates—add custom cover pages and logos, and choose to display charts, histograms, and/or individual readings
- Drag-and-drop Custom Fields mode—import PDF forms and overlay fields to automatically populate inspection data



Prompted Batch Mode

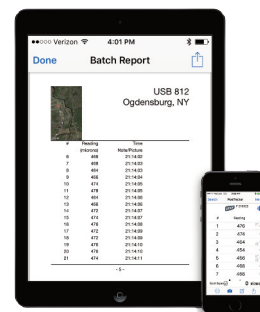
Create pre-defined batches with onscreen text and image prompts for each reading and upload to PosiTector 6000, 200, and UTG gages (*Advanced models only*).

- Ideal for ensuring a consistent measurement pattern for repetitive jobs or when specific measurement locations are required

PosiTector App — iOS/Android

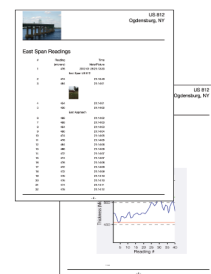
Fully-featured mobile app that connects to the PosiTector SmartLink, PosiTector Advanced gages, and the PosiTest AT-A.

- Auto pairing Bluetooth BLE connection
- Add images and notes to individual readings or batches directly from your device
- Email readings as .csv (comma separated value) files for easy import to Excel and other spreadsheets.
- Synchronize readings with PosiSoft.net—backup and synchronize jobs, batches, and readings to the cloud (see inset below)



Mobile Reporting Solution

- Compile single or multi-batch reports from multiple probes and instrument types
- Add pictures, screen captures, notes, and more
- Email pre-formatted or custom reports from your device instantly



PosiSoft.net

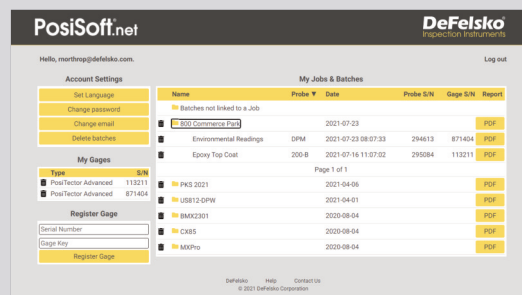
Secure storage of measurement data in the cloud.

compatible with **PosiSoft Desktop** and **PosiTector App**

- Upload measurement data directly from WiFi-connected PosiTector Advanced gages from anywhere in the world—no software required
- Synchronize and share measurement data across multiple computers

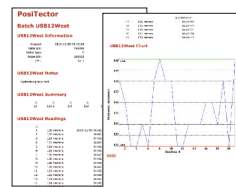
Ideal for...

- Users with multiple computers, instruments, and office locations
- Inspection companies managing data from multiple inspectors
- Login from PosiSoft Desktop to synchronize all measurement data and stored report templates from your account



PosiSoft.net Web Viewer Review measurement data and print simple, pre-formatted PDF reports from any web browser—no software installation required.

PosiSoft USB Drive — Gage based



A simple gage interface to retrieve data in a manner similar to USB flash drives or cameras. No software to install or internet connection required. Measurement data can be printed quickly from a formatted HTML report or exported in .csv format for further analysis in spreadsheets.

PosiTector Developer Resources

•Bluetooth 4.0 •WiFi •Keyboard Mode •USB Serial

PosiTector and PosiTest AT-A instruments can integrate with third-party software, drones, ROVs, PLCs, and robotic devices using several industry-standard communication protocols including: Bluetooth 4.0, WiFi, Keyboard mode, and USB serial.



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