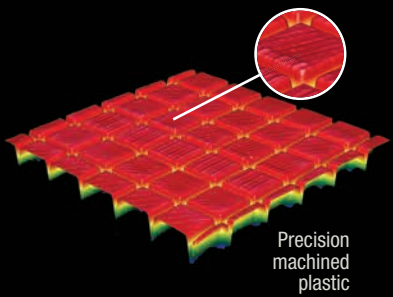


PosiTector® **RTR3D** Replica Tape Reader

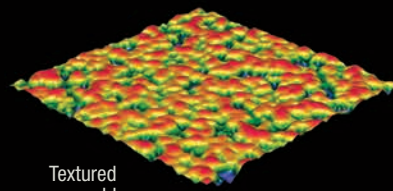
3D



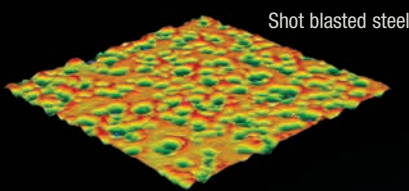
Measures and records surface profile parameters using replica tape



Precision machined plastic



Textured mold



Shot blasted steel



For use with **OPTICAL Grade** Testex™ Press-0-Film™ Replica Tape

Advanced model shown

DeFelsko®
The Measure of Quality



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)
- Enhanced one-handed menu navigation
- RESET feature instantly restores factory settings

Durable

- Solvent, acid, oil, water and dust resistant—weatherproof
- Rugged indoor/outdoor instrument—ideal for field or laboratory use; flat curved or irregular surfaces
- Shock-absorbing, protective rubber holster with belt clip
- 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

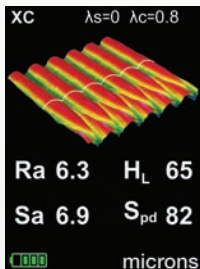
- PosiTector body accepts all PosiTector RTR, 6000, 200, SPG, DPM, SST, SHD and UTG probes easily converting from a surface profile gage to a coating thickness gage, dew point meter, soluble salt tester, Shore hardness durometer or ultrasonic wall thickness gage
- Selectable display languages
- High contrast LCD with backlit display
- Flip Display enables right-side-up viewing
- Uses alkaline or rechargeable batteries (built-in charger)

Powerful

- Calculates and records all fourteen 2D and 3D parameters (below) with each measurement
- 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.
- 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



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...

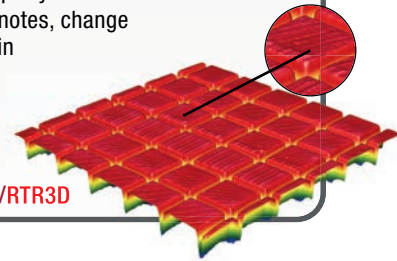
- Storage of 250 readings—stored readings can be viewed or downloaded

Advanced Models

Includes ALL features as shown on left plus...

- Storage of 100,000 readings 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.
- 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

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 μm	0.8 – 4.5 mils
Measuring Range (Rt)	10 – 115 μm	0.4 – 4.5 mils
Minimum Roughness (Ra)	2 μm	0.08 mil/80 μin
Accuracy (H)	$\pm 5 \mu\text{m}$	$\pm 0.2 \text{ mil}$
Accuracy (Rt)*	$\pm (5 \mu\text{m} + 5\%)$	$\pm (0.2 \text{ mil} + 5\%)$
Accuracy (Ra)*	$\pm (0.25 \mu\text{m} + 5\%)$	$\pm (0.01 \text{ mil} + 5\%)$
Anvil Pressure	1.1 Newtons	110 grams-force
Anvil Size	$\varnothing 6.25 \text{ mm}$	$\varnothing 0.25 \text{ inch}$
Field of View	3.8 x 3.8 mm	0.149 x 0.149 inch
Lateral Sampling	3.7 μm	0.145 mil
Vertical Resolution	100 nm - 2D/3D	3.93 μin - 2D/3D
Resolution	10 nm - SDF	0.393 μin - SDF
	0.1 μm	0.01 mil

* When measured using Optical Grade X-Coarse Replica Tape

ALL GAGES COME COMPLETE with one roll of Optical Grade X-Coarse replica 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 with belt clip, 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, ISO 8503-5, NACE SP287, SSPC-PA 17, SSPC-SP5, SP6, SP10, SP11-87T and others.



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