

TM 900

A novel device for 3D measurements of xenografts in mice



Accurate and repeated measurements, independent of diverse shape of the tumor and the subjective assessment of the operator

Higher precision than caliper measurement

Accuracy to 300 µm

Full 3D visualization of tumor

Automatic calculation of dimensions and tumor volume

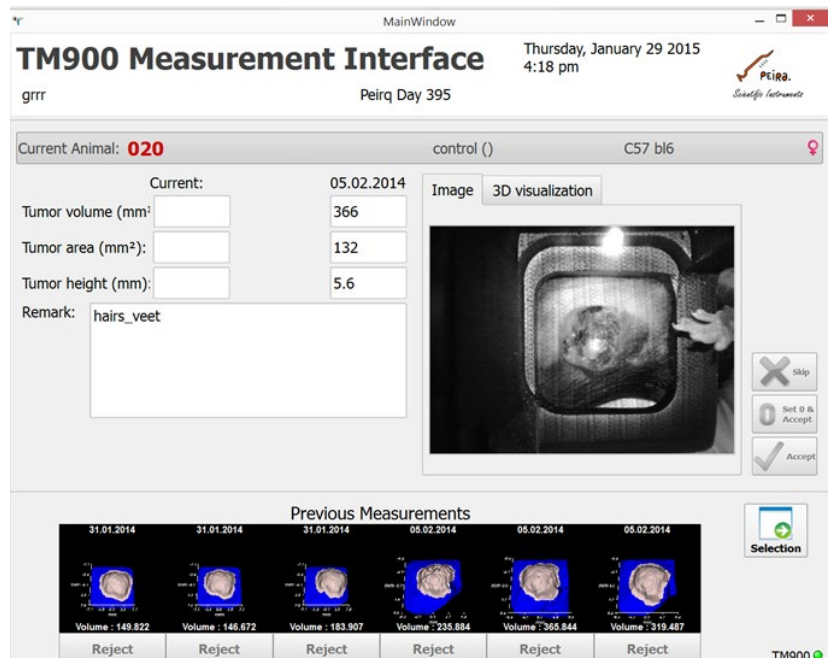


TM900 system & software

The scanner is supplied with a dedicated laptop and software for measurement analysis.

System allows:

- defining experiments,
- assign animals to groups (randomization),
- visualize,
- reanalyze, make plots of the data.



Stereo vision technology

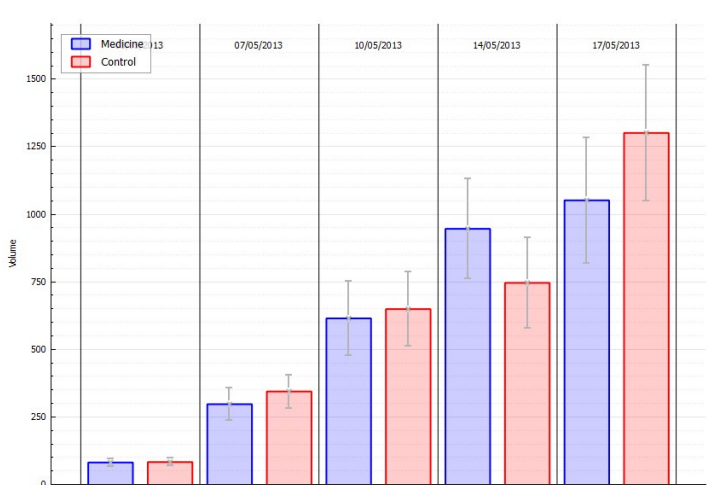
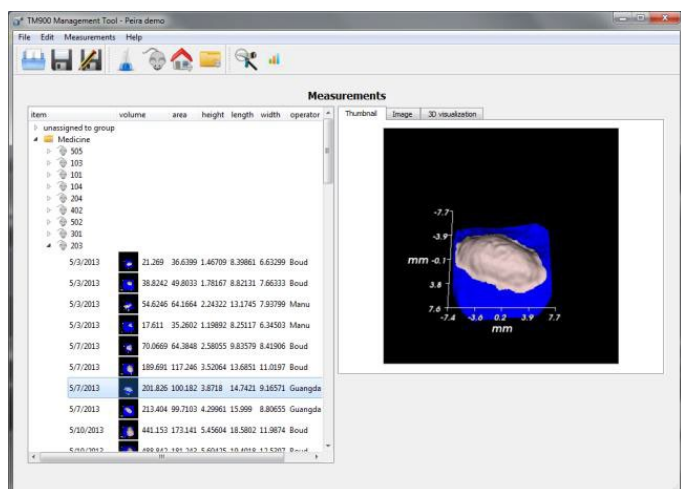
A structured light pattern is projected on skin surface.

The deformation of the pattern is used to calculate the topography and subsequently, the volume of the tumor.

Scanner nozzles

Differently sized nozzles are foreseen to allow measurements of wide range of tumors.

The software enables the storage, analysis, visualization and data management



TM900 specification

- Measurement range (X - Y): 25 mm - 25 mm
- Maximum tumor size (L x W x H): 20 mm x 20 mm x 20 mm
- Accuracy per measured 3D point: < 0,3 mm
- Stereo capture time: ~ 0,1 s
- Device panel-pc interface: USB 2.0
- Camera: 1600 x 1200 pixel (2 MP)
- Projector: 300 x 300 pixeli, 532 nm (green for optimal contrast)
- Camera/projector working distance: 50 mm

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