

Picture 1: 3 AXIS INTERFEROMETER AND 3 AXIS REFLECTOR

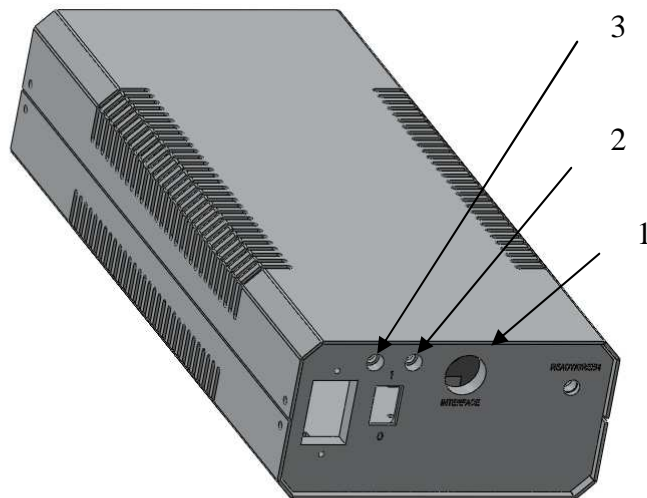
In picture 1 are shown a detail of measurement with the 3 – axis interferometer and 3 - axis reflector. As first input laser beam is delivering by laser measuring head (is not drawing into Picture 1).

The 3 axis interferometer split the input laser beam in 3 parts. Signal beam one is responsible for distance, signal beam two for pitch angle and last beam or yaw – angle.

All signal beams are going to target object (Three axis reflector is fixing on target object) and will be reflected in the 3 axis interferometer.

Each signal beam interfered with the reflected laser beam. After them, the interfered laser beams transmitted into the laser measuring head.

The single signals are analyzed and passed on to software.

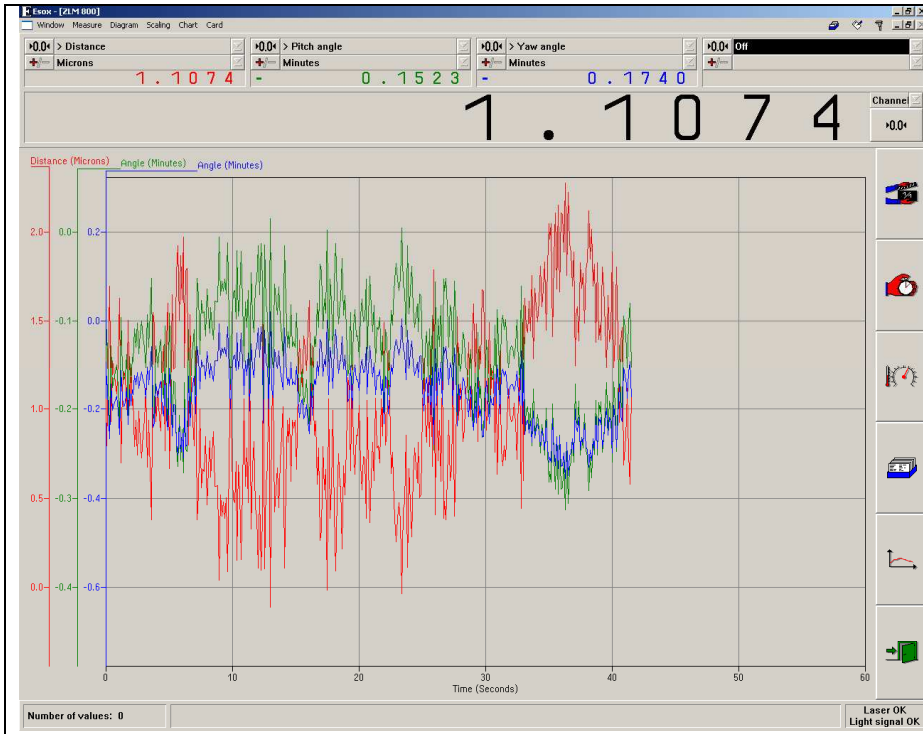


Legend:

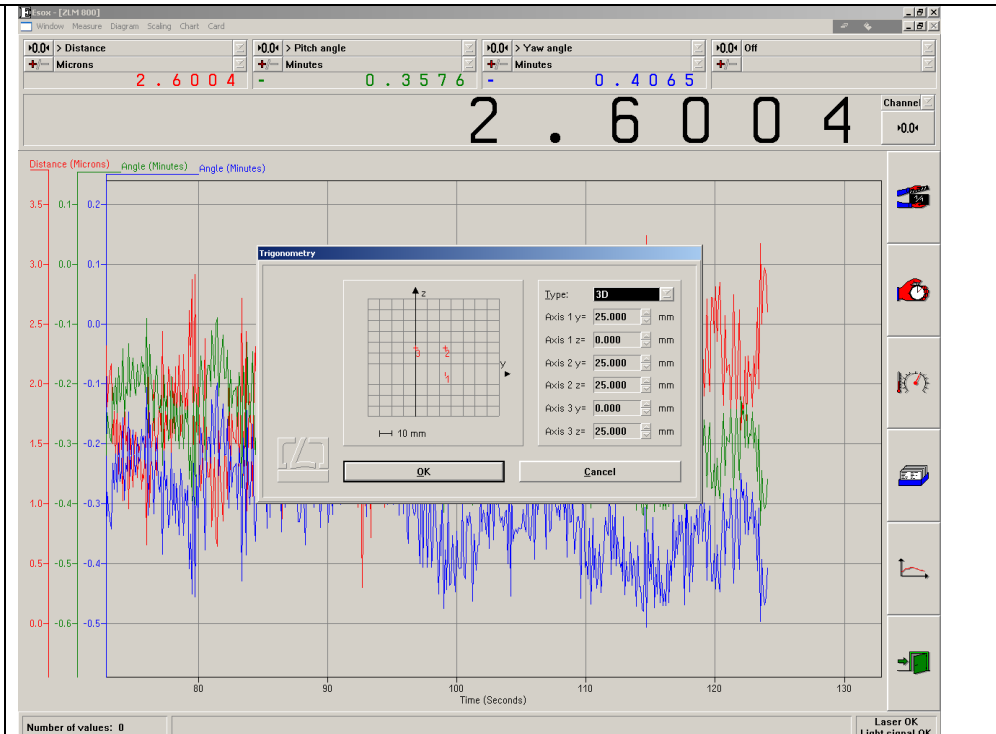
- 1 plug in for cable position for axis 1
- 2 plug in for cable position for axis 2
- 2 plug in for cable position for axis 3

Picture 2: BACK SITE OF LASER MEASUREMENT HEAD

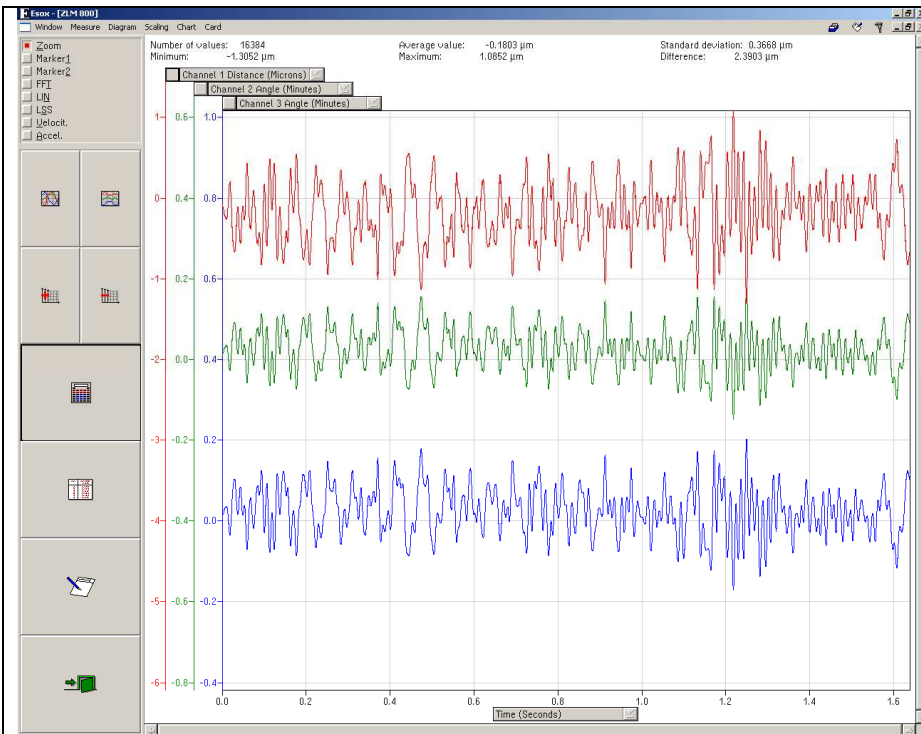
Some collected software pictures:



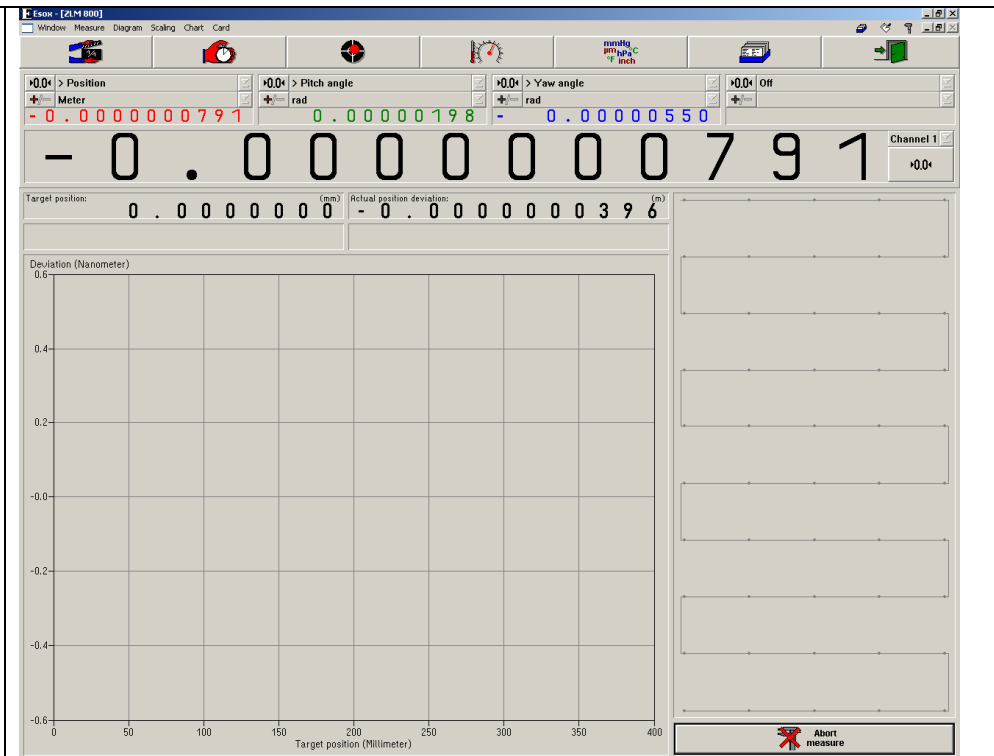
Software is shown a measurement of 3 axis (distance, yaw- and pitch angle)



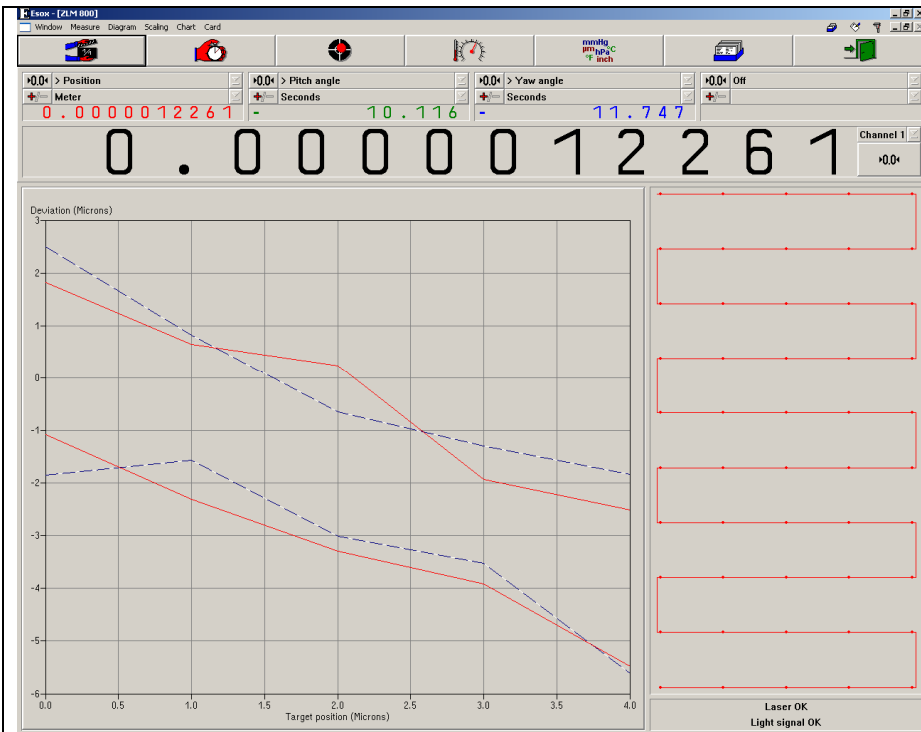
Setting the trigonometry



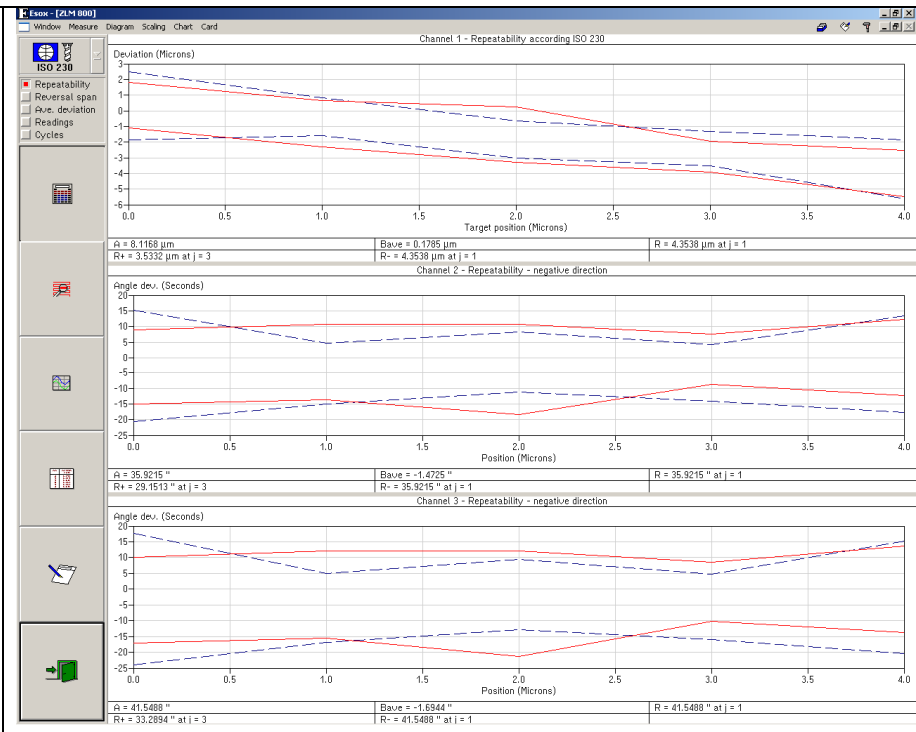
Statistics of measurement



Start of measurement in 5 position



Complete position and angle measurement



Statistics according to ISO 230