

## Commercial Opportunities

### Panoramic Test Object (ref: 405)

#### Overview

This device, the development of which has been led by the medical physics team at Leeds Teaching Hospitals NHS Trust, allows routine QA of dental panoramic x-ray units.

#### The Problem

Routine QA of dental panoramic x-ray units is severely limited because of the complexity of the device and therefore it is not possible to fully determine whether the equipment is correctly set up or out of tolerance. Existing devices on the market are complex to use, machine specific and costly.

#### The Solution

This device, which is light and easy to use, will allow dental surgeries and hospitals to routinely calibrate their x-ray units and hence circumvent the cost of using external contractors.

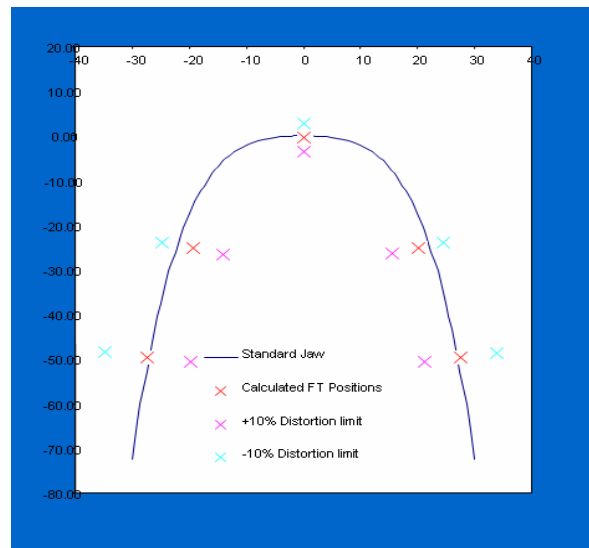
More frequent calibration is likely to reduce the numbers of x-rays a patient may have to undergo.

#### Key features of the device

Based on a standard jaw the device is mounted on a tripod which allows repeatable anatomic positioning in any panoramic machine including chin, bite and forehead positioning.

The device allows optimal patient positioning to be determined, therefore improving diagnostic efficiency.

All these measurements obtained in just three films. Combined with a remote solid state detector kV/dose meter, the device allows a full QA survey to be conducted on panoramic x-ray units that usually have minimal testing.



Panoramic Test Object in situ

#### Further Details

Leeds Test Objects Limited have been granted a licence to manufacture the Panoramic Test Object. Further information and details regarding cost and availability can be obtained from them at Leeds Test Objects Limited, Wetherby Road, Boroughbridge N Yorks YO51 9UY Tel: 01423 321102 [www.leedstestobjects.com](http://www.leedstestobjects.com)

OR

from their UK distributor: Southern Scientific Ltd, Scientific House, Rectory Farm Road, Sompting, Lancing, West Sussex, BN15 0DP Tel: 01903 604000 [www.ssl.gb.com](http://www.ssl.gb.com)

#### Key Measurements

- Quantification of the focal trough and image layer
- Accurate determination of the bite offset
- Quantification of the symmetry of the scan
- Measurement of the incident beams angles
- Simple visualisation of faults