



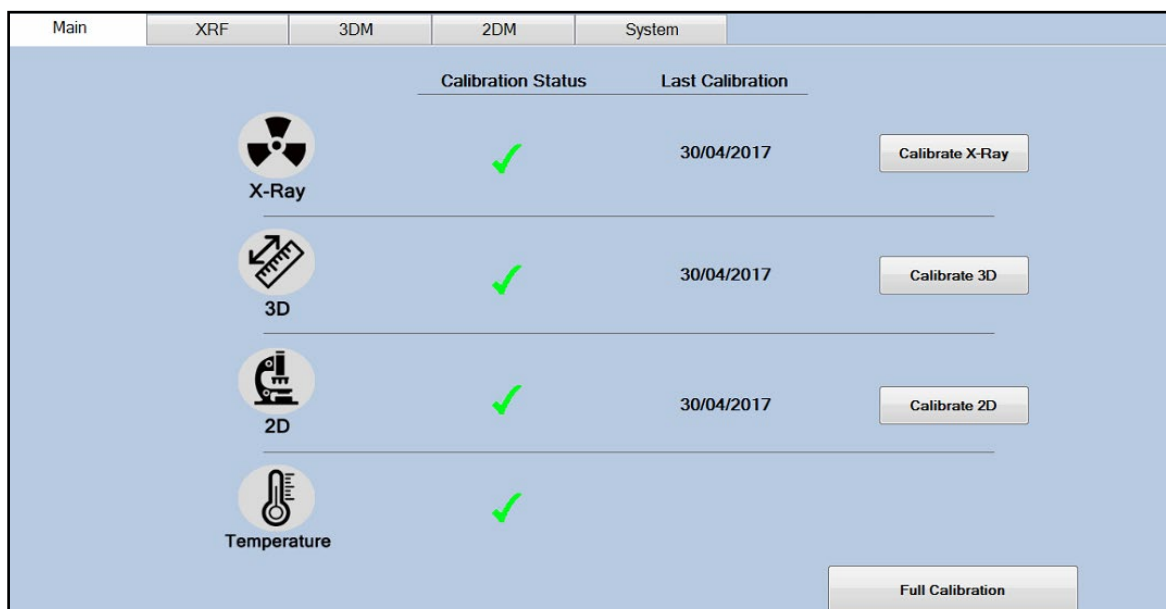
Onyx Hybrid Metrology





System Automatic Health Monitoring

Keep the tool calibrated and stable so that all measurement recipes will yield consistent results over a long period of time.

Regular preventive maintenance keeps the system calibrated, auto health monitoring is designed for daily quality assurance.

- ✓ Typically set for an automatic self test every 48 hours
- ✓ Complete auto-calibration requires less than 10 minutes
- ✓ Monitoring runs when the system is idle and doesn't affect run time
- ✓ Tests a variety of functional parameters and make calibration adjustments
- ✓ Home screen indicates the process status of each test and alerts



	Calibration Status	Last Calibration	
 X-Ray	✓	30/04/2017	Calibrate X-Ray
 3D	✓	30/04/2017	Calibrate 3D
 2D	✓	30/04/2017	Calibrate 2D
 Temperature	✓		
Full Calibration			

Automatic Health Monitoring Tools

X-Ray

- Capillary - moves the capillary motors to the center of the tubes beam
- Offset Tool - measures and calibrates the offset between the XRF and 2D components
- XRF Dark - noise calibration
- MCA - calibrates elements intensity in the correct energy scale
- Detector - Uniformity between the 4 detectors

3D Scanner

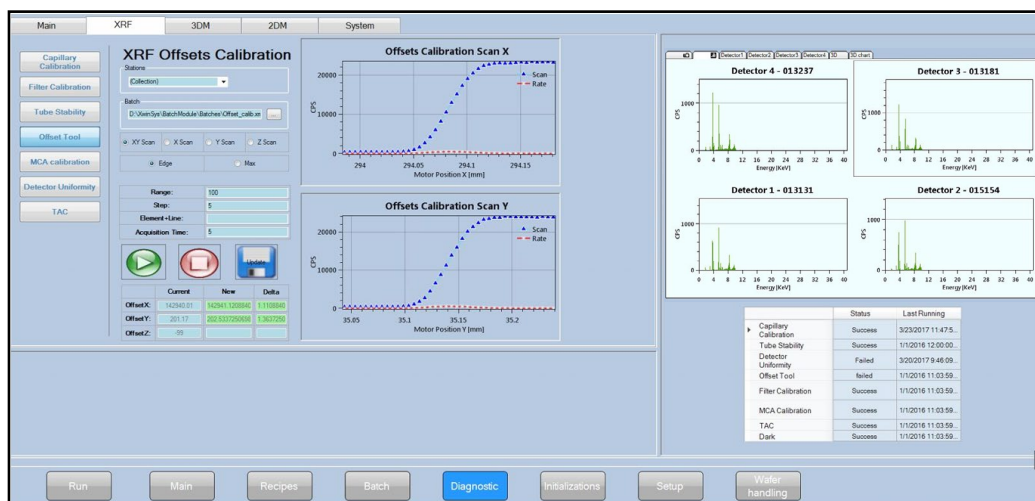
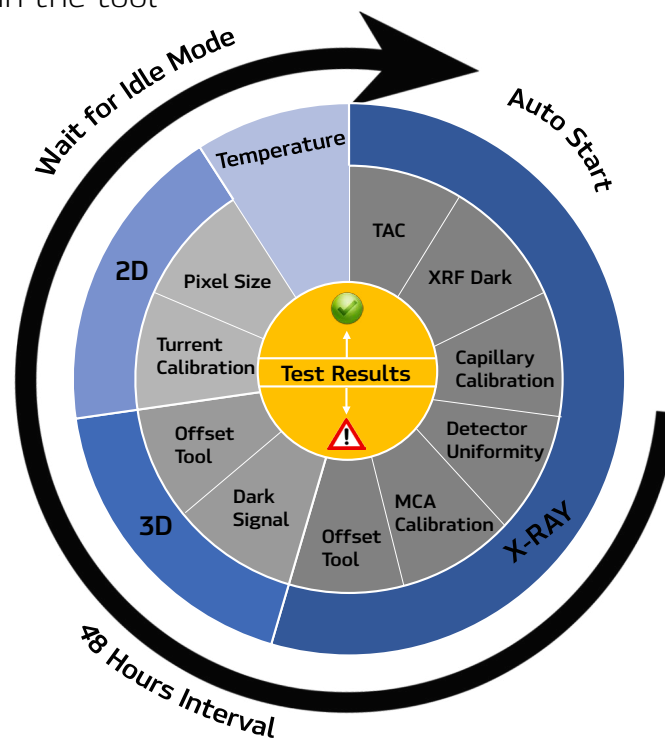
- Offset Tool - set the offset stage movement values between the 3D and 2D components
- Dark Signal - noise calibration

2D Microscope

Turret Calibration - set focus offsets between different magnifications

Temperature

Monitors temperature in the tool



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