NXR-10
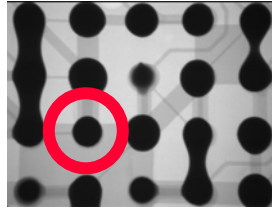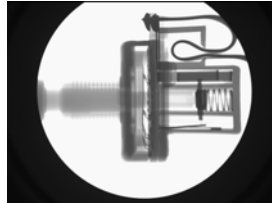## *Small Footprint High Performance X-Ray System*

- **Industry Standard for small component and small board inspection**
- **6" x 8" parts handling capacity**
- **High-output , 100 kV side window x-ray source**
- **Integrated power supply and x-ray tube**
- **Large component to chip-scale packaging inspection**
- **Flexible and easy-to-operate**
- **Low maintenance requirement**
- **5 Axis Manipulator Standard**
- **Worldwide Service and Parts Support**
- **Windows™ NT, proprietary AIP II image processor (standard)**
- **Printer, modem and network ready (standard)**

Component Inspection

Assembly Inspection

CONTROL INTERFACE

- Joystick X/Y table motion control
- Integrated controls for all other functions
- Sample rotation and speed control

DISPLAY / ANALYSIS

AIP-II Hardware

- Windows™ Operating System................... NT
- Pentium II-based processor............... 450Mhz
- Ethernet card .... 10/100 base t compatible
- Built-in modem................................. K56 Flex

AIP-II Advanced Software Library

The AIP II Software suite includes:
- Windows™ based menuing and easy-to-use macros
- Frame averaging and quad view analysis
- Wide range of image enhancement and analysis tools. I.e., specific tool sets for BGA, Flip Chip and Chip scale packaging inspection, including % voiding and drill offset.
- Modules for enhanced measurement capability
- Image storage and retrieval via Iomega drive or network.
- Ethernet Card .... 10/100 Base-T compatible

SPECIFICATIONS

Physical Dimensions

Dimensions (w/ stand) ....77.5" (H) x 45" (W) x 32" (D)
....197cm (H) x 114 cm (W) x 81.3cm (D)
Footprint..11.62 sq. ft. (0.95 sq. m)
Weight...325 lbs. (148 kg)
Table Load Height.. Variable
Safe Operating Temperature .... 32° to 99° F (0 to 40° C)
Power Consumption.. 600 watts
Line Voltage ....110 /120 VAC 60 Hz
.... 230 VAC 50 Hz power conversion kit optional

X-Ray Source

Energy...20-100kv standard
Power...10-60 Watts maximum
Focal spot size .... 10 microns
X-ray tube orientation... End-window X-ray tube

Image Detector

Detector Type .... 4" (10cm) X-ray image intensifier
Camera ....CCD, 512 x 480 pixels with zoom lens
Video Output .... RS-170 (NTSC)
Video Display .... High Resolution 15" SVGA Color Monitor
Printer ....Plain Paper Color Printer

Image Performance

Field-of-View ....0.045" (min.) to 1.80" (max.)
.... 0.1143mm (min.) to 45.72mm (max.)
Max inspection area.. 8" (X) x 6" (Y) on table surface
....20.32cm (X) x 15.24cm (Y)
Spatial Resolution .... >36 lp/mm at maximum magnification (min FOV)
Magnification................................Up to 100X at maximum usable zoom setting
.... ZI (sample position), Z2 Zoom Lens independent control

Safety / Regulatory

Fail safe, interlocked enclosure. Complies with all U.S. and International standards for cabinet radiography systems. This product is in conformity with all applicable CDRH directives. CE compliant.

Phone: 858-635-8600 | Toll Free: 888-464-2464

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Nicolet Imaging Systems