Nicolet Imaging Systems
8221 Arjons Drive • San Diego, CA • 92126-6319

Technical Data Sheet

Nicolet Imaging Systems

8221 Arjons Drive
San Diego, CA
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080808GO

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)

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.)
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
Sales @ nicimg.com

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 %0 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

DISPLAY / ANALYSIS

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

CONTROL INTERFACE

- Component Inspection
- Assembly Inspection

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