

NX-CIS160-LDA CONVEYORIZED INSPECTION SYSTEM



National X-Ray Corp. continuously researches and integrates the latest technology in X-ray image detection systems to produce high performance inspection systems that match the specific needs of the customer application. Easily integrated into the Non-Destructive lab, or implemented directly on the production floor, this ergonomic, simple to operate and highly capable X-ray System yields immediate results. Along with the NX-iRAD series of image processors and equipped with other optional control software packages, this fully configurable system fulfills the requirements of today's SPC/Inspection demands. Digital panels, Digital line arrays and Digital image intensifier systems, along with a wide variety of x-ray systems and manipulator sub-systems, make this system the ideal Non-Destructive Testing system.

Features

- ◆ Basic system includes properly sized conveyor & cabinet, advanced Image Processing Software, a variety of LDA choices handpicked for the right application and the proper x-ray system
- ◆ X-Ray energies ranging from 80kV to 450kV depending on application needs
- ◆ Wide dynamic operating range
- ◆ Conveyor INPUT & OUTPUT Staging Areas available
- ◆ Split Conveyor System when inspecting lowZ material to eliminate the belt in the imaging area
- ◆ Basic system requires only standard electrical supply
- ◆ Wide range of optional sub-systems available that include Gulmay & Comet
- ◆ Advanced Image Processing "NX-iRAD"
- ◆ Image archiving, LAN ready, internet mail compatible, printing ready
- ◆ Multi-View Windowing Option great for applying different LUT's onto different Regions of Interest
- ◆ American Designed, Build and parts readily available from local vendors

NX-CIS160-LDA System Specifications

Application Range

- Penetration of up to 6" of Al, or 1.5" Fe @ 160kV
- Test Sample weights up to 20 lbs
- Sample sizes up to 12" x 12" x 18"H
- ASTM E-155, MIL standards & others

Inspection Enclosure

The NX-CIS160-LDA Conveyorized Inspection System is manufactured in compliance with all federal, state and local radiation safety regulations (CFR 1020.40). A tunnel type system is used to eliminate the need of opening doors, which would slow down the process for inspection throughput. The use of different width conveyors, detectors and different kV systems allows this system to be configured for nearly all type of high throughput products whether it be for aluminum, iron, ceramics or plastics.

160kV Dimensional Data (approximate):

- Footprint Dimensions: 12' W x 3' D x 72" H (w/out Console or X-Ray Generators)
- Conveyor Width: Configurable (12 to 24 Common)
- Maintenance Access Door: 18" W x 30" H
- Control Console:
 - Single bay: 24" W x 27" D x 74" H
 - Double Bay: 46" W x 27" D x 74" H
 - Writing Surface: Add 19" depth
- Approximate Weight of entire system: 3,500 lbs

Conveyor

Split Type Dual Conveyor

- 6 up to 20" Conveyor
- Capacity: up to 200 lbs

Control Console

The control console contains all necessary components for system control:

- Microprocessor-based X-ray Controller
- Operator Interface for Image Dispositioning
- Writing Surface
- Single Bay or Dual bay
- System Control Electronics

X-ray System

- 160kV, 225kV, 320kV up to 450kV Highly Stabilized X-Ray Systems chosen for each individual application.

National X-Ray Corp. reserves the right to change products specifications without prior notice, as part of an ongoing production improvement program.

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ISO 9001 Compliant

Imaging System

The imaging system is matched to your particular application requirements and could include:

- 50µm, 100 µm, 200 µm up to 400 µm Pitch
- Cadmium Tungstate or Gadox Scintillators
- 1" up to 24" + LDA Lengths
- 160kV up to 450kV LDA Detectors

Options

- 2k High Resolution Monitors
- Dual Screen Image Monitors
- PC Network Capability
- X/Y Image Intensifier X/Y Shutters
- Tubehead Shutter
- Laser Alignment
- Interior Viewing CCTV Camera
- Input/Output Handoff Mechanics
- Reject Marking/Handling Capabilities

Utilities

- 230 VAC ±10%, 60 Hz, 40A, 4-Wire (L1, L2, Neutral, Ground)



The Tube Shutter of the NX-CIS160-LDA System as seen from the Maintenance access door.

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