



Manufacturers of Industrial X-Ray Units

Pixi Real-time X-Ray Evaluation System

Pixi x-ray unit has dimensions of 86" wide x 73" tall x 50" deep with a control cart that is 24" wide x 24" Deep x 67" tall. And it al weighs 2300 lbs. Both on casters for easy moving. Standard line voltage requirements are 220 vac, 15-20 amp single phase.



Components

This system is composed of 6 major components:

- Constant potential x-ray system
- High energy image amplifier
- Solid state array video system
- 4 axis remote controlled part manipulator
- Control Panel
- Lead lined radiation protection cabinets





Constant Potential x-ray system is a 125-5 self contained hi voltage generator/ x-ray tube combination both in a oil filled tank. Output is self regulated with readout meter for MA & KVP. These readout meters are located on the control panel. The control panel features safety controls such as x-ray enable key switch, push button on/ off switched, continuously variable KVP & automatic ma control with readout meters, self regulating tube warm-up, and a complete safety interlock system for automatic x-ray shutdown.



Image Tube

The High energy image amplifier is a tri-field High-energy cesium iodine image tube, also included is a 3 position magnification switch for changing the viewing size. When switch is in normal position the viewing area is 9", Mag mode 1 position is down to 6" of viewing, and Mag Mode 2 is 4.5" of viewing area. That magnification is double that of the normal Position. The switch is located on the control panel.

Camera & Unit Features

- The solid stat array video camera is designed specifically for use with image intensifiers
- It features a "Anti-Bloom" sensor, which allows inspection without the problem of lead masking the part.
- This feature includes high gain, and high contrast with more than 570 lines horizontal and more than 485 line vertical resolution.
- Motorized lens coupled to camera with remote controls for iris and zoom control.
- No image sticking on screen with low lag.
- Positive and negative images displayed simultaneously on two 12" monitors.

Manipulator

- 4 axis remote controlled part manipulator
- 10" movement up and down
- 14" movement left to right with a 6" diameter parts stage
- 8" in and out travel
- Rotation in a 360 degrees
- All speeds are variable from the control panel.



Control Panel

The control panel is mounted on the control cart which is designed to be user friendly. By accentuating operators convenience and efficiency. Mounted with the control panel are the 2 12" monitors, main power circuit breaker, x-ray key switch, kvp vertical brightness control, x-ray on switch and indicator lamp, also with a x-ray on switch. The readouts for MA & KVP, magnification switch for changing 9", 6", or 4.5" Mag modes. Which is also located on the control panel.

Radiation Chamber

- Lead lined radiation protection chamber supplied will be totally x-ray shielded
- Meets all federal and state radiation regulation.
- Chamber is a generous 48" D x 28"w x 36" inside
- The door opening is 23" w x 23 H and has a 10x 12 lead glass viewing window.
- A light will illuminate the inside when unit is in operation