



无锡日联光电有限公司

Wuxi Unicomp Photoelectronics Co., Ltd.

我们不仅提供优良的产品，更重要的是我们优质的服务

## *AX-8200HR X-ray Inspection Machine*



Wuxi Unicomp Photoelectronics Co., Ltd.

DIF, C Bldg, No. 2 Taishan Road,

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Tel: +86-510-81816006 Fax: +86-510-81816018

[www.unicomp.cn](http://www.unicomp.cn)



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***AX-8200HR X-ray Inspection Machine***

<b>System Specifications</b>	<b>Std. System</b>
<b>X-ray Tube Type</b>	<b>Sealed Tube</b>
<b>X-ray Tube Voltage</b>	<b>0 – 90kV</b>
<b>X-ray Tube Current</b>	<b>0.25mA</b>
<b>X-ray Tube Focal Spot</b>	<b>5 micron</b>
<b>Image Detector</b>	<b>4/2” Image Intensifier</b>
<b>Imaging Camera</b>	<b>2MP Digital</b>
<b>Magnification</b>	<b>Up to 450X</b>
<b>Maximum PCB Size</b>	<b>500 x 450mm</b>
<b>Maximum Inspection Area</b>	<b>450 x 400mm</b>
<b>Tilt Range</b>	<b>+/- 70 degrees</b>
<b>Step and Repeat Programming</b>	<b>X/Y/Z</b>
<b>Image Processing Software</b>	<b>AX-DXI</b>
<b>X-ray Machine Safety</b>	<b>&lt;1 micro Sv/hr</b>
<b>Machine Dimensions (WxDxH)</b>	<b>1080 x 1180 x 1730mm</b>
<b>Machine Weight</b>	<b>800Kg</b>
<b>Machine Operating Temp</b>	<b>0-40°C (Humidity 30-70RH)</b>
<b>Machine Line Voltage</b>	<b>100VAC-230VAC, 50/60Hz</b>
<b>Machine Power Consumption</b>	<b>0.5kW (max)</b>

**System Applications**

- **BGA bridging:** Excellent
- **BGA voids:** Excellent (measure using BGA void/area software)
- **BGA opens:** Excellent (requires PCB tilt ~ 65-70°)
- **BGA excessive/insufficient:** Excellent (measure using BGA void/area software)
- **CSP bridging:** Excellent (requires ~ 100X magnification)
- **CSP voids:** Excellent (requires ~ 100X magnification)
- **CSP opens:** Excellent (requires PCB tilt ~ 70°)
- **CSP excessive/insufficient:** Excellent (requires ~ 100X magnification)
- **Flip Chip bridging:** Excellent (requires ~ 200X magnification)
- **Flip Chip voids:** Excellent (measure using BGA void/area software)
- **Flip Chip opens:** Good (requires PCB tilt ~ 70° ~ 300X mag.)
- **Flip Chip excessive/insufficient:** Excellent (requires ~ 200X magnification)
- **QFN bridging & voids:** Excellent (measure using QFN void/area software)
- **QFP opens:** Excellent (requires ~ 150X magnification/PCB tilt ~ 45-50°)
- **SMT chip component attach:** Excellent
- **I/C internal structure:** Excellent for bond wire and die attachment
- **MLB inner layer analysis:** Excellent for pad stack alignment and drill offset

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## *AX-8200HR X-ray Inspection Machine*



**Internal cabinet access for PCB loading and unloading.  
Slide door to the right for internal access.**



**Place PCB into x-ray cabinet  
Note: Sliding front door allows for easy access for installation and calibration of camera.**

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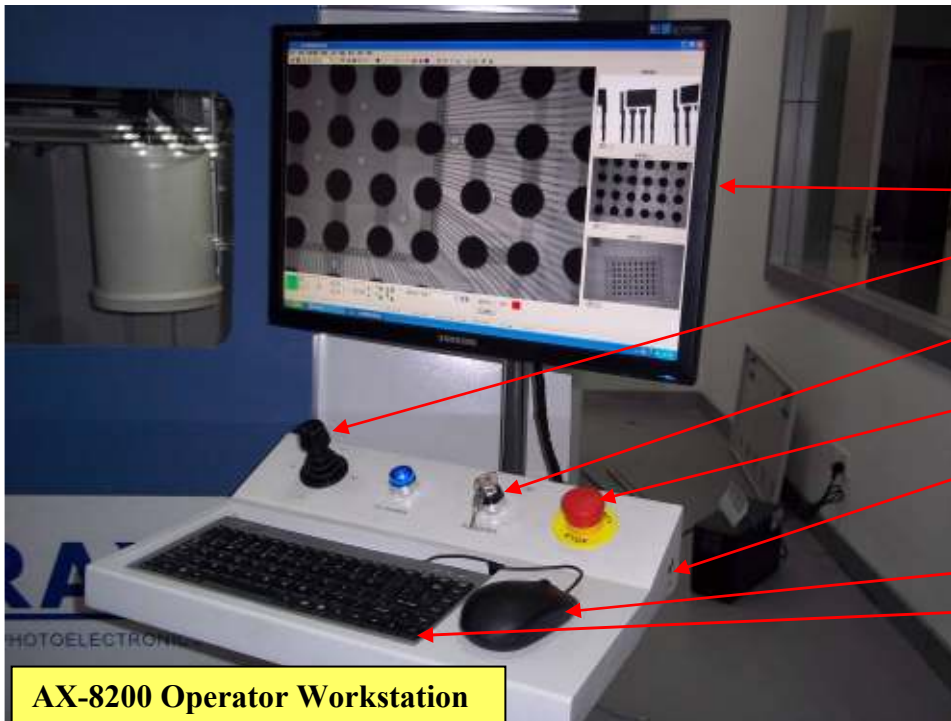


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### AX-8200HR X-ray Inspection Machine



- 21" LED Monitor
- Tilt & X/Y Joystick
- System Power Key
- Emergency Off Button
- USB Storage Input
- Mouse/Keyboard:
  - X/Y motion control
  - DXI software I/F

**AX-8200 Operator Workstation**



Note that all components in the Operator Workstation are adjustable to meet the height of the Operator.

- Monitor
- Operator Worktable

**AX-8200 Operator Workstation**

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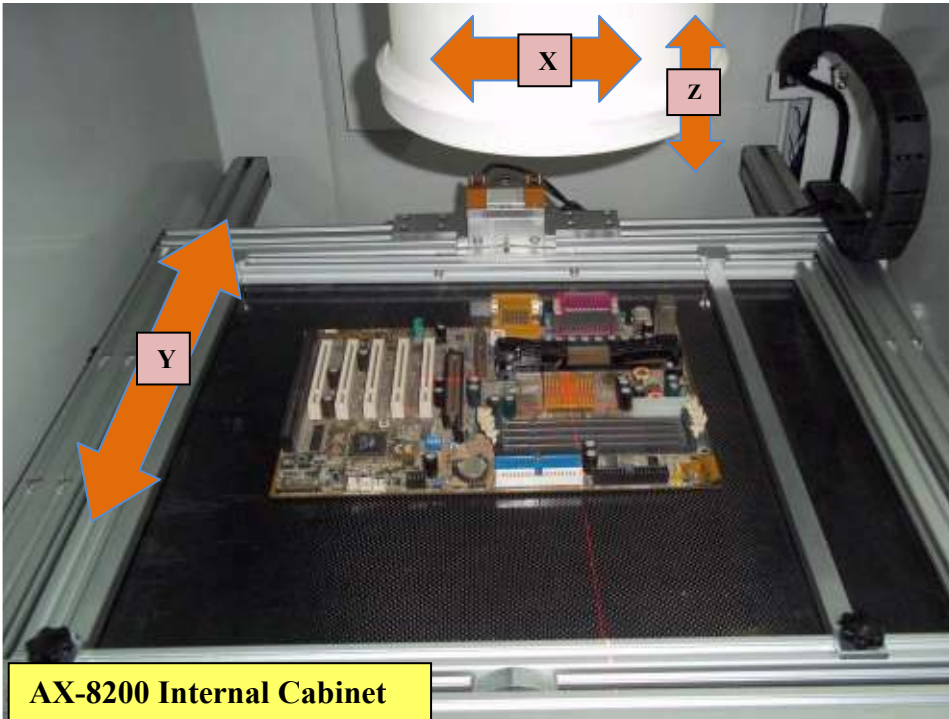


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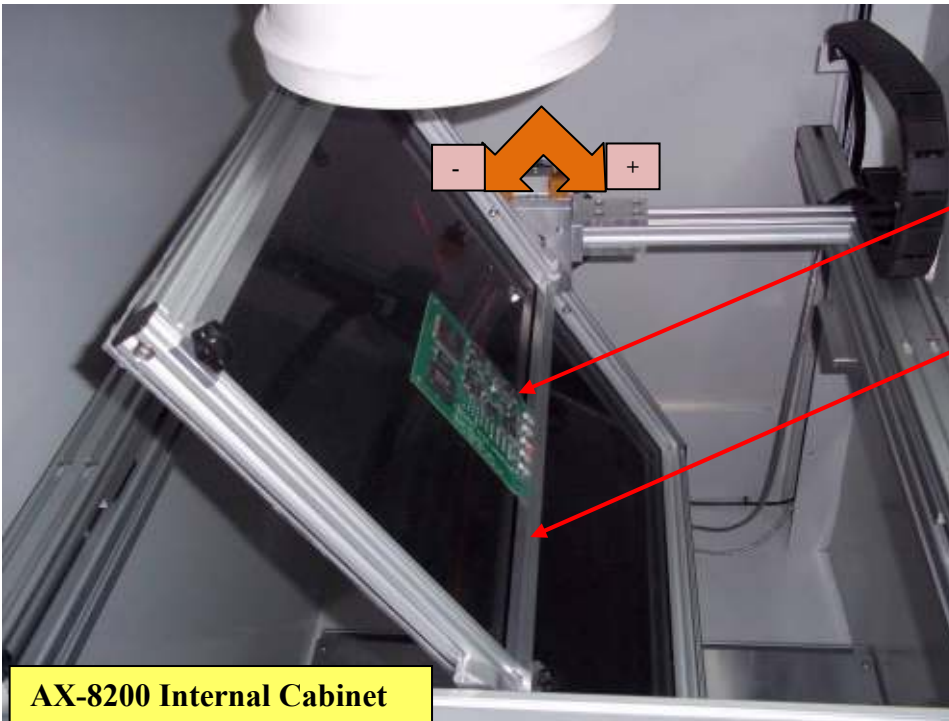
**Detector/X-ray Tube Motion**

- “X” axis motion for PCB position 450mm
- “Z” axis motion for FOV and magnification

**PCB Table Motion**

- “Y” axis motion for PCB position 500mm

AX-8200 Internal Cabinet



**PCB Tilt Motion**

- +/- 0 - 70 degrees

**PCB Tilt Lock Bar**

AX-8200 Internal Cabinet

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