Tel: +86 138 2525 8612 Postcode: 518105

X-9200 UPKTECH - X-RAY Inspection Machine

Description:

X-9200 electronic semiconductor testing equipment, with a minimum detection accuracy of 1um, can be used to detect integrated circuit chip semiconductors, such as BGA, IGBT, flip chip and PCBA component welding, LED bonding, IC packaging and other industries for high-precision testing.



Application:

1.LCM Display Module 2.Semiconductor

3. Automobile industry 4. Battery

5. LED Bonding 6. IGBT Bonding

Features:

| Function | Advantage |
|---|---|
| CNC program: Automatic batch detection of different positions of samples | Automatic ON/OFF X-RAY light tube batch detection of samples |
| Array function: Automatic batch detection of samples with fixed positions and the same spacing. | Equipped with Japanese X-RAY light tube, the detection accuracy reaches 1 um. |
| Bubble measurement: One-click measurement of bubble size, void rate, and tin climbing height | High resolution digital X-RAY tablet |
| Length and width measurement: | The stage can accommodate a large |



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| measure the length and width of the partial detection area. | number of samples of various sizes. |
|--|---|
| Visual navigation interface: precise positioning, x-y realizes precise joystick displacement | Optional 360° rotation of the stage to detect samples |
| Analog color: better observation of inspection images | Allows 60° tilt observation |

High-end configuration:

| Joystick control | NC programming |
|------------------|--|
| | Simple mouse click operation to write detection program. The stage can be positioned in X and Y Directions; the X-ray tube and detector can be positioned in Z direction Software sets current and voltage Image settings: brightness, contrast, automatic gain and exposure. Users can set the pause time for program switching. Anti-collision system allows for maximum tilt and viewing of objects |



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Specifications:

| | Model | X-9200 |
|-----------|----------------------------------|----------------------------|
| | Tube type | Transmissive Tube |
| | Spatial resolution | 1μm |
| | Tube voltage | 100kv/110kv |
| Tube | Tube current | $200\mu A/300\mu A$ |
| | Image acquisition method | flat panel digital imaging |
| | Imaging accuracy | 76μm |
| | A/D density value | 16bit (65536) |
| | Resolution | 1648*1644px |
| Tablet | Capture frame rate | 30 (FPS) |
| | Magnification | 2000X/≥7500X |
| | Operating system | WINDOWS 10 |
| System | Power | AC110-220V50-60HZ 1800W |
| | Radiation safety test | <1 uSV/H |
| | Plate rotation angle | 60° |
| | Stage size | 690*685mm |
| | Detection range | 670*665mm |
| | Stage load capacity | ≤20kg |
| Structure | Machine Dimension | 1510*1770*1850mm(L*W*H) |
| | Machine size (including monitor) | 1810*2420*2200mm(L*W*H) |
| | Machine weight | 1800kg |
| | Platform movement method | Automatic/ Manual |
| Safety | CE certification | Yes: B-S191126500 |
| | State exemptions | Yes |
| | Radiation Safety License | Yes |



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Tube specification parameters:

| Item | Unit | G-320rm |
|---|--------------|--|
| Tube voltage working range | kV | 60-160 |
| Tube current working range (tube current) | uA | 10-200 |
| Maximum output | W | 20 |
| Minimum resolution (JIMA RT RC-02B) | um | 1 |
| X-ray window material/thickness | -/mm | C(Diamond)/0.29 |
| Material of cake material | | W(Tungsten) |
| X-ray radiation angle | Deg. | 168 (maximum), 80 (above 80% equal spacing) |
| Weight | Kg | 21 |
| Control | _ | Continuous, pulse |
| Pulse | _ | Software≥ 1 secSoftware≥5 0msSoftware≥5 e≥1 sec |
| External control | _ | RS-232C (G-311MH-DP has extern input point) |
| DC | V | 24 (+1.2,-1.2) |
| Maximum power consumption | W | 40 65 |
| Operating temperature | W | 10-45 |
| Storage temperature | $^{\circ}$ C | 0-50 |
| Humidity (working, storage) | $^{\circ}$ | ≤85(no condensation) |
| High voltage power supply | _ | built-in |



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X-RAY principle description:

