

# A8-16 Flying Probe Test System

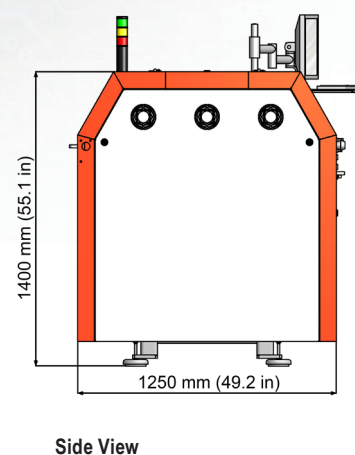
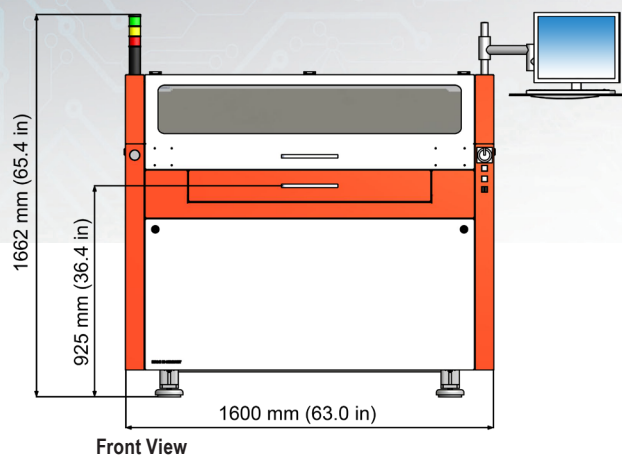
## For Rigid and Flexible Boards



- ▲ 16 Test Heads
- ▲ High Speed Direct Linear Drives for X and Z motion
- ▲ Light weight Carbon Z-Axis
- ▲ 8 High Resolution Color Cameras
- ▲ Fast 300 mA Kelvin Testing

# A8-16 Technical Specifications

## Flying Probe Test System



### Mechanics

Basic unit with 16 probes (8 top, 8 bottom)  
Universal shuttle system with clamp and stretch mode for testing flexible and rigid boards. Pneumatic clamping function controlled by foot switch.

|                         |                                 |
|-------------------------|---------------------------------|
| Max. board size (X x Y) | 610 mm x 640 mm / 24.0" x 25.2" |
| Min. board size (X x Y) | 10 mm x 10 mm / 0.4" x 0.4"     |
| Test area (X x Y)       | 610 mm x 620 mm / 24.0" x 24.4" |
| Board thickness         | up to 10 mm / 0.4"              |

|                               |                                       |
|-------------------------------|---------------------------------------|
| Smallest pad                  | 35 $\mu$ m / 1.4 mil* (special setup) |
| Smallest pitch                | 80 $\mu$ m / 3.2 mil                  |
| Resolution measurement system | $\pm 0.1 \mu$ m / $\pm 0.004$ mil     |
| Repeatable accuracy           | $\pm 4 \mu$ m / $\pm 0.16$ mil        |

|                      |                |
|----------------------|----------------|
| Soft touch probes or | 5 g to 10 g    |
| *Micro needle probes | 0.3 g to 2.5 g |

### Electronics

|                 |                                                                                   |
|-----------------|-----------------------------------------------------------------------------------|
| Continuity test | 1 $\Omega$ to 10 k $\Omega$                                                       |
| Isolation test  | up to 25 M $\Omega$ (FM)<br>up to 100 G $\Omega$ (ohmic)<br>MicroShort Detection® |
| Test voltage    | 100 mV to 1000 V                                                                  |

### Camera System

8 color cameras for fast optical scanning of top and bottom side.  
Resolution 9  $\mu$ m/ pixel

### Options

- 4-wire measurement with max. 300 mA test current
  - 0  $\Omega$  to 1 k $\Omega$   $\pm 2 \%$ , min  $\pm 25 \mu\Omega$
  - with Kelvin probes 0.3 g to 2.5 g
  - Smallest pad 80  $\mu$ m / 3.2 mil\*
  - Smallest pitch 120  $\mu$ m / 4.8 mil\*
  - \* special setup
- Embedded components test
  - R 0  $\Omega$  to 1 M $\Omega$   $\pm 1 \%$ , min.  $\pm 0.5 \Omega$
  - 1 M $\Omega$  to 200 M $\Omega$   $\pm 3 \%$
  - C 0 F to 100  $\mu$ F  $\pm 2 \%$ , min.  $\pm 30$  fF
  - L 0 H to 10 mH  $\pm 5 \%$ , min.  $\pm 0.25 \mu$ H
  - Diode / Varistor
  - $U_F$ ,  $U_R$ ,  $U_{BR}$  0 V to 12.5 V
- LaTest® open detection
  - with LaTest® probes 1 g to 10 g
  - High current 1.4 A (1 kHz)
- Retest of fault files from external grid test systems on inquiry
- Repair software with barcode support

|                    |                                      |
|--------------------|--------------------------------------|
| Data input format  | IPC-D-356A                           |
| Network connection | Ethernet, TCP / IP                   |
| Power supply       | 230 V, 50 Hz (115 V, 60 Hz), 1500 VA |
| Compressed air     | 8 bar / 115 psi, filtered            |
| Temperature        | 18 °C to 27 °C                       |
| Relative humidity  | 40 % to 60 %                         |
| Machine weight     | 1100 kg                              |

All information subject to change without notice!  
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