

# Optima III THT Dual Sided AOI

## Features

- ◆ Best Pre & Post Wave AOI Inspection System providing the highest Return on Investment, (ROI) in the industry by eliminating the need for human inspection
- ◆ Extra Large 10cm Depth of Field eliminates the effects of component height
- ◆ Extreme high speed (both sides 45 sec, Server board 600 x 600 mm<sup>2</sup>)
- ◆ Innovative vision algorithms eliminate PCB/Placement variation and detects defects perfectly

## Typical Defect Types

- ◆ THT/DIP Components
  - Missing / Wrong Components
    - \* Optical shape recognition
    - \* Color and Band Inspection
  - Polarity Check
    - \* Electrolytic Capacitors, Resistors & Diodes
    - \* All components w/ text including IC's (character verification)
    - \* Connectors and other components w/ polarity requirements
  - Solder Bridge and Solder Joint
- ◆ Optional inspection functions
  - Press-fit Inspection (down to 0.5x0.5mm<sup>2</sup>)
    - \* Lifted components & Pin shifting (top side)
    - \* Pin invisible & Pin unseated (bottom side)
  - SMD Inspection (down to 0603 package)
    - \* Drop / Wrong parts / Polarity check
    - \* Solder bridge
    - \* Missing components (down to 0402 package)
  - Label Inspection by OCR
    - \* Missing component
    - \* Polarity check
  - Surface Inspection (down to 0.5x0.5mm<sup>2</sup>)
    - \* Board surface inspection (scratch, particle)
    - \* Drop solder / component
  - Laser Height Detection (down to 0.5x0.5mm<sup>2</sup>)
    - \* Lifted components & Pin shifting (top side)

## Application for

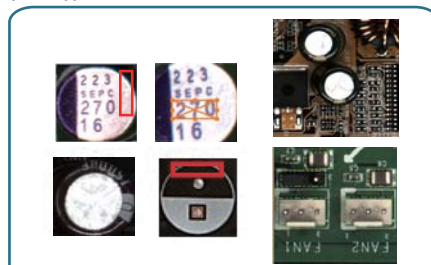
- ◆ Post wave, Leaded components, DIP, Axial leaded and metal can

## Dimension & Weight

- ◆ PCI-770 Model
  - 900 L x 1000 W x 1950 H (mm) / 450 Kg  
(Inspection area 330 L x 250 W (mm))
- ◆ PCI-770M Model
  - 1410 L x 1345 W x 1875 H (mm) / 800 Kg  
(Inspection area 510 L x 510 W (mm))
- ◆ PCI-770L Model
  - 1410 L x 1345 W x 1875 H (mm) / 800 Kg  
(Inspection area 610 L x 610 W (mm))



System Software



Defect Types



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# Optima III THT Top Sided AOI

## Features

- ◆ Best Pre & Post Wave AOI Inspection System providing the highest Return on Investment, (ROI) in the industry by eliminating the need for human inspection
- ◆ Extra Large 10cm Depth of Field eliminates the effects of component height
- ◆ Extreme high speed (top side 30 sec, Server board 600 x 600 mm<sup>2</sup>)
- ◆ Innovative vision algorithms eliminate PCB/Placement variation and detects defects perfectly

## Typical Defect Types

- ◆ THT/DIP Components
  - Missing / Wrong Components
    - \* Optical shape recognition
    - \* Color and Band Inspection
  - Polarity Check
    - \* Electrolytic Capacitors, Resistors & Diodes
    - \* All components w/ text including IC's (character verification)
    - \* Connectors and other components w/ polarity requirements
- ◆ Optional inspection functions
  - SMD Inspection (down to 0603 package)
    - \* Drop / Wrong parts / Polarity check
    - \* Missing components (down to 0402 package)
  - Label Inspection by OCR
    - \* Missing component
    - \* Polarity check
  - Surface Inspection (down to 0.5x0.5mm<sup>2</sup>)
    - \* Board surface inspection (scratch, particle)
    - \* Drop solder / component
  - Laser Height Detection (down to 0.5x0.5mm<sup>2</sup>)
    - \* Lifted components & Pin shifting (top side)

## Application for

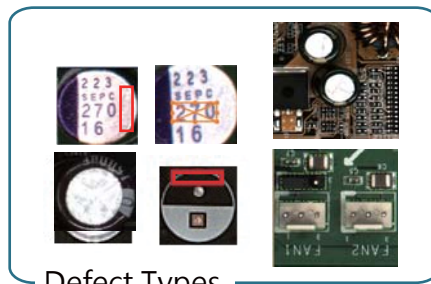
- ◆ Post wave, Leaded components, DIP, Axial leaded and metal can

## Dimension & Weight

- ◆ PCI-760 Model
  - 900 L x 1000 W x 1950 H (mm) / 450 Kg  
( Inspection area 330 L x 250 W (mm))
- ◆ PCI-760M Model
  - 1410 L x 1345 W x 1875 H (mm) / 800 Kg  
( Inspection area 510 L x 510 W (mm))
- ◆ PCI-760L Model
  - 1410 L x 1345 W x 1875 H (mm) / 800 Kg  
( Inspection area 610 L x 610 W (mm))



System Software



Defect Types



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# Optima III THT Bottom Sided AOI

## Features

- ◆ Best Pre & Post Wave AOI Inspection System providing the highest Return on Investment, (ROI) in the industry by eliminating the need for human inspection
- ◆ High resolution and high speed imaging system supports pin inspection of DIP components
- ◆ Extreme high speed (bottom side 45 sec, Server board 600 x 600 mm<sup>2</sup>)
- ◆ Innovative vision algorithms eliminate PCB/Placement variation and detects defects perfectly

## Typical Defect Types

- ◆ THT/DIP Components
  - Solder Bridge and Solder Joint

## Application for

- ◆ Post wave, Leaded components, DIP, Axial leaded and metal can

## Dimension & Weight

- ◆ PCI-780 Model
  - 900 L x 1000 W x 1950 H (mm) / 450 Kg  
(Inspection area 330 L x 250 W (mm))
- ◆ PCI-780M Model
  - 1410 L x 1345 W x 1875 H (mm) / 800 Kg  
(Inspection area 510 L x 510 W (mm))
- ◆ PCI-780L Model
  - 1410 L x 1345 W x 1875 H (mm) / 800 Kg  
(Inspection area 610 L x 610 W (mm))

- ◆ Optional inspection functions
  - SMD Inspection (down to 0603 package)
    - \* Drop / Wrong parts / Polarity check
    - \* Solder bridge
    - \* Missing components (down to 0402 package)
  - Label Inspection by OCR
    - \* Missing component
    - \* Polarity check
  - Surface Inspection (down to 0.5x0.5mm<sup>2</sup>)
    - \* Board surface inspection (scratch, particle)
    - \* Drop solder / component
  - Pin Scan Inspection (down to 0.5x0.5mm<sup>2</sup>)
    - \* Pin invisible & Pin unseated (bottom side)



System Software



Defect Types



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