

# TAL 3D SCAN

The way to Industry 4.0  
**MIRTEC**

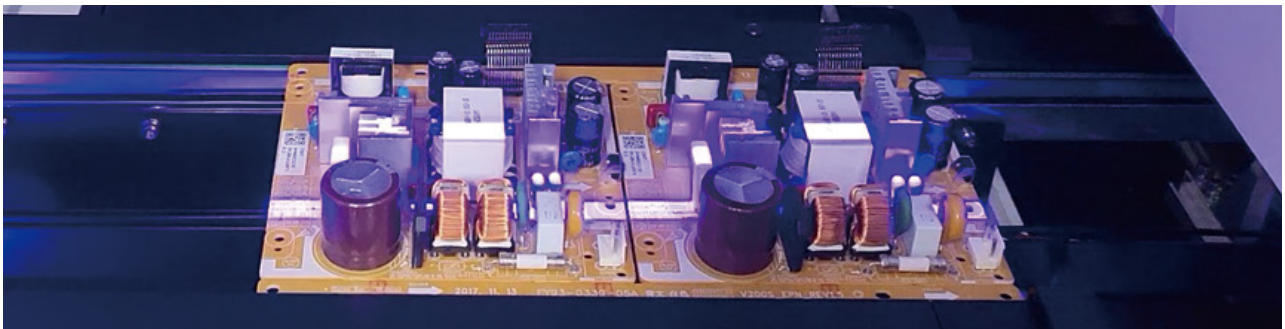
## Improve Your Productivity Over 30%

### **ZERO** Inspection Time for **Tall Parts**

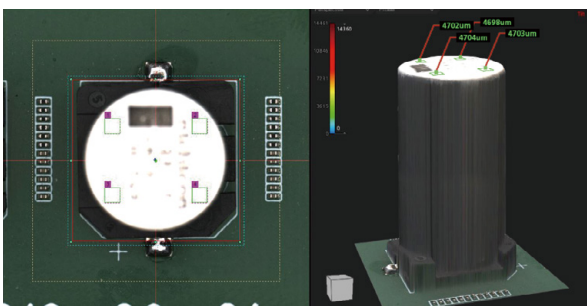
- Tall Component Analysis Laser 3D SCAN
- Innovative improvement of productivity for THT and SMT process
- Provides 3D inspection of tall components prior to AOI
- Exclusive 3D laser scan technology
- 3D inspection of tall components up to 70mm
- Patent pending



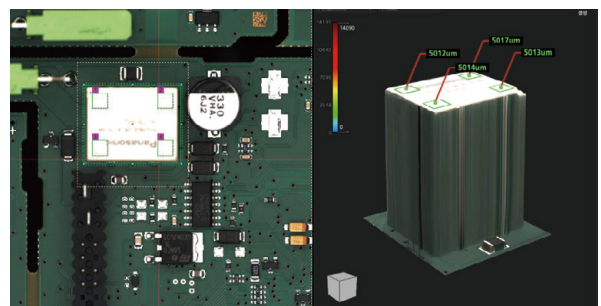
### Ultra-Fast Specialized Laser (TAL)



### Inspection Image



< 47 mm Capacitor >



< 50 mm Relay >

# Specifications

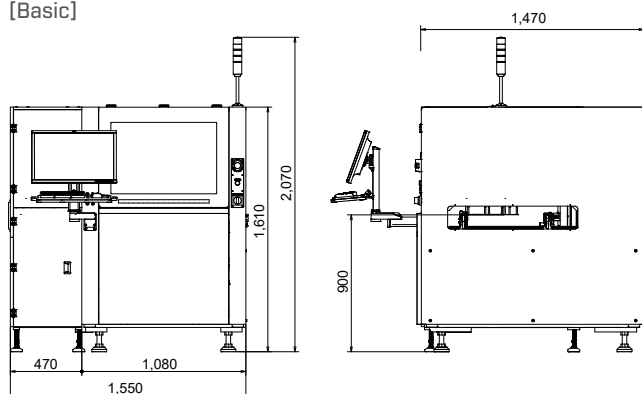
|                             |                        |      | TAL 3D SCAN + MV-6 OMNI                                             |
|-----------------------------|------------------------|------|---------------------------------------------------------------------|
| Machine Type                |                        |      | In-line 3D AOI                                                      |
| PCB Size Range (mm)         |                        |      |                                                                     |
| Basic                       |                        |      | 50 × 50 ~ 300 × 250 mm                                              |
| Extend                      |                        |      | 50 × 50 ~ 510 × 510 mm                                              |
| Maximum Inspection Speed    |                        |      |                                                                     |
| 3D/2D Inspection            | 15M                    | 15μm | 4,260mm <sup>2</sup> / Sec                                          |
| 2D Inspection               |                        |      | 10,716mm <sup>2</sup> / Sec                                         |
| Laser Scanning Area / Speed |                        |      |                                                                     |
| Laser                       |                        |      | 307 x 257mm / 6 Sec / Single Scan                                   |
| System Specifications       |                        |      |                                                                     |
| 3D Technology               |                        |      | Laser Scanning, Programmable Digital 12 Projection Moiré Technology |
| Height Accuracy             |                        |      | ±3 μm                                                               |
| Lighting System             |                        |      | 8 Phase Coaxial Color Lighting System                               |
| Side Camera System          | Option                 |      | 18 Megapixel Digital Color Side Camera (4ea)                        |
| Software                    | Standard               |      | Built-in SPC, Built-in Repair                                       |
|                             | Option                 |      | RMS, RRS, IRS, OLTT, Remote SPC, SPC Server System, Valor           |
| PCB Clearance               | Top                    |      | 70 mm (Top Edge : 3mm)                                              |
|                             | Bottom                 |      | 70 mm (Bottom Edge : 3.5mm)                                         |
| PCB Thickness               |                        |      | 0.5 ~ 5 mm                                                          |
| Max. PCB Weight             |                        |      | 4kg                                                                 |
| Min. Measurement            |                        |      | 0603 Chip (mm) / 0201 Chip (inch) / 0.4 Pitch (mm)                  |
| Max. Component Height       |                        |      | 70mm                                                                |
| Robot System                | Drive System           |      | Servo Motor                                                         |
|                             | Resolution             |      | 1μm                                                                 |
|                             | X,Y Axis Repeatability |      | ±10μm                                                               |
| Power Requirements          |                        |      | Single Phase(s) 200~240V 50~60Hz, 1.1kw                             |
| Breaker Capacity            |                        |      | 25 A                                                                |
| Air Requirements            |                        |      | 5 Kg <sup>f</sup> / cm <sup>2</sup> (0.5 MPa) / 25LPM               |
| Dimension [WxDxH] / Weight  |                        |      |                                                                     |
| Basic                       |                        |      | 1,550 × 1,470 × 1,610 mm / Approx. 1,100 kg                         |
| Extend                      |                        |      | 1,776 × 1,470 × 1,640 mm / Approx. 1,235 kg                         |

※ We will not be responsible for any problems caused by using unverified BARCODE READER. Contact our HQ for the list of allowed BARCODE READER models to use.

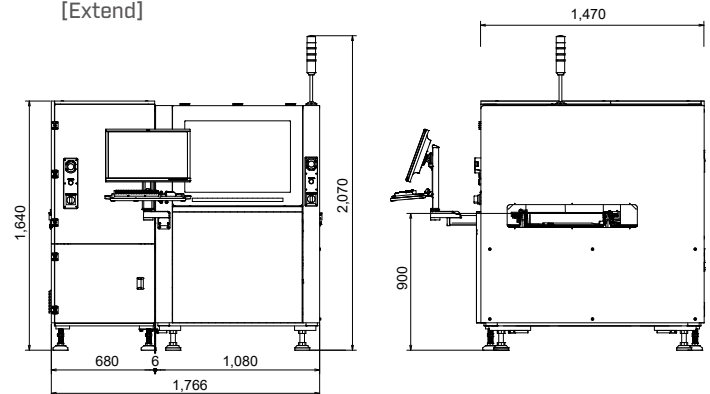
## Dimension

(Unit : mm)

[Basic]



[Extend]



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• Data subject to change without notice.