

FRV-3600 solar cell inspection



- » Configurable Inline/ Offline
- » UPH > 3600
- » Concurrent front & rear inspection in single station.
- » On-the-fly inspection

Key technologies

- » Printing Analysis
- » Geometry Analysis
- » Colour Spectrum Analysis
- » Surface Analysis
- » Grid Analysis
- » Electrode / Busbar Analysis

Inspection Classifier:

- » Printing Dimension- Length & Width
- » Printing Angle
- » Printing Position
- » Printing Interruption
- » Colour Spot
- » Colour Homogeneity
- » Contour Checking
- » Orientation
- » Geometry Checking
- » Geometry Fracture
- » Geometry Angle
- » Surface Pitting
- » Surface Scratches
- » Surface Paste Stain
- » Finger Interruption
- » Rear Side Missing Paste
- » Rear Side Electrode Field Damage
- » Rear Side Geometry Checking
- » Rear Side Geometry Angle
- » Rear Side Orientation

TT VISION TECHNOLOGIES SDN BHD

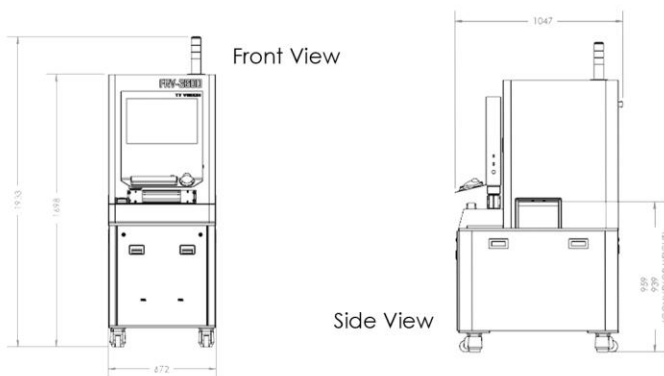
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Technical Specification

Topic	Description
Type of solar cell	Monocrystalline and Multicrystalline solar cell
Size of solar cell	From 125mm x 125mm up to 210mm x 210mm
Thickness of Solar cell	150 μm - 200 μm
Type of Inspection	Concurrent Front and Rear Inspection
Cycle Time	< 1 second per cell (Front & Rear concurrent)
Throughput	> 3600 cells per hour
Minimum Defect Area	0.016 mm ²
Accuracy	20 μm
Repeatability	20 μm
Camera	High Speed 4k Line-scan camera
Lighting	Max 400000 lux High Power Lighting (Special designed to handle ARC on solar cell)
Machine Interface	TCP/IP(Ethernet), RS232, Profibus, Digital IO
Data Interface	TCP/IP(Ethernet)
Processor	Quad-core Processor
Display Output	20" Wide Screen LCD / Touch Screen-optional
Power Requirement	110/220V, 50/60, 13A
Compress Air	> 4 bar
System Dimensions (W x H xD)	672mm x 1933mm x 1047mm
Conveyor Height	939mm - 959mm
Certification	CE



Defect Highlights

