

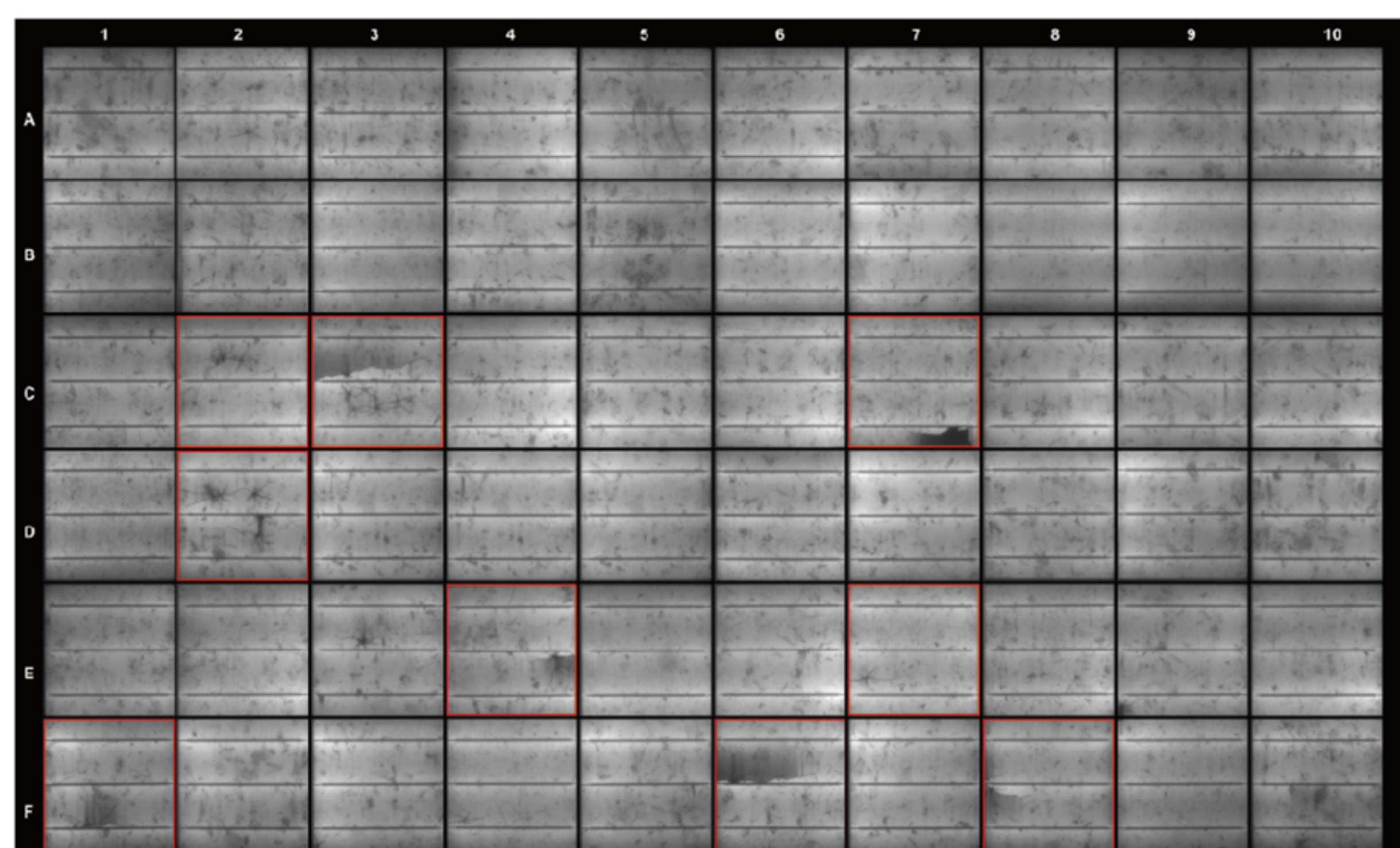
K5500

Electrical, Optical & Thermal
Imaging & Test Systems

PV Module Inspection System

High-Speed In-Line PV Module Inspection Using Luminescence Imaging

Electroluminescence or photoluminescence imaging allows automatic visual inspection of PV module for in-line product quality control, especially before and after lamination process.



In-Line PV Module Product Inspection & Grading

Electroluminescence Photo Imaging

DC Resistance, Hi-Pot, Ground Bonding Test

Automatic Detection of Microcrack, Dark area & Finger Defect

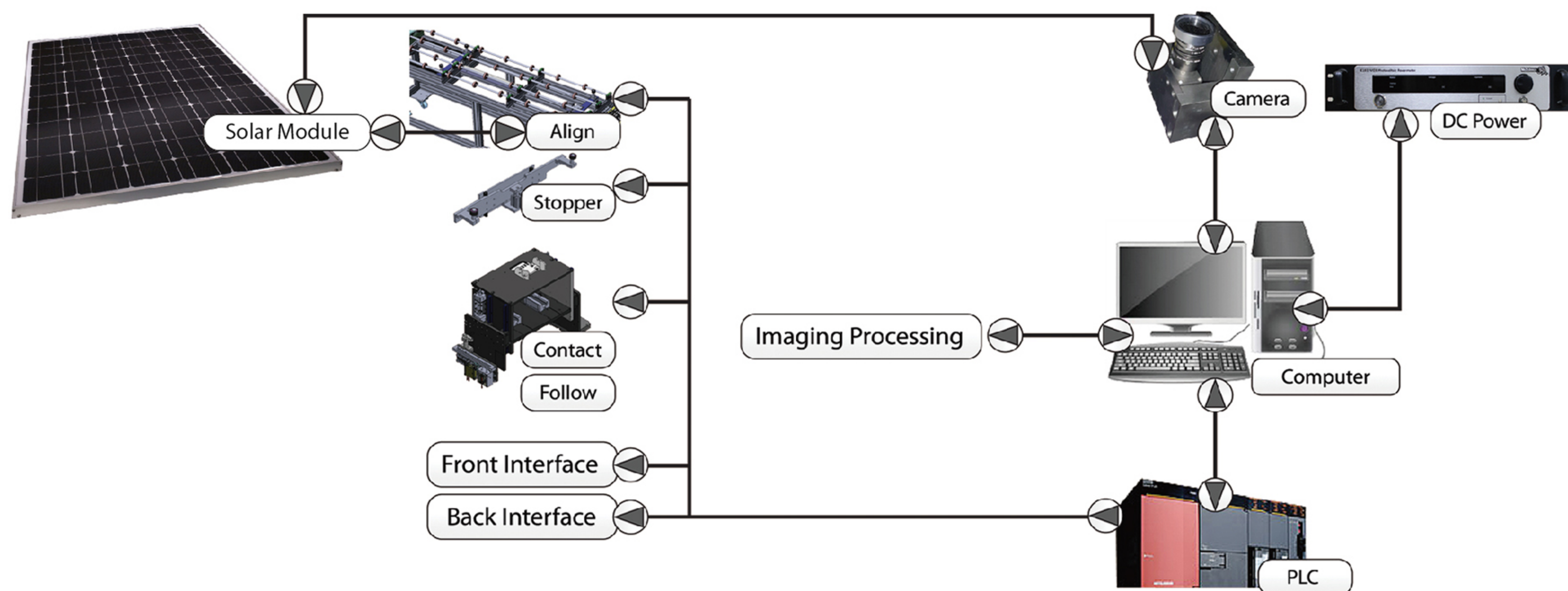
Image Comparison Before/After Lamination



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System Configuration



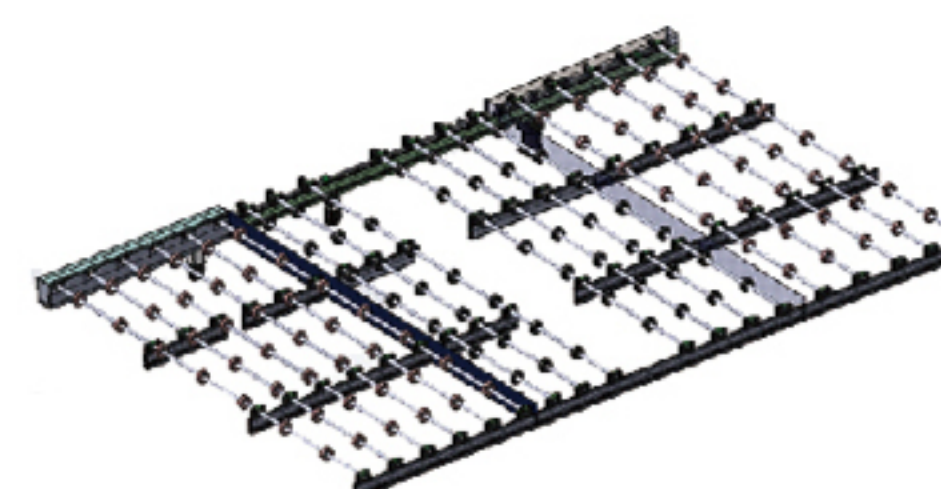
System Components



<K301 Imaging Kit>



<K103 ELX Powermeter>



<Conveyor Roller Type>



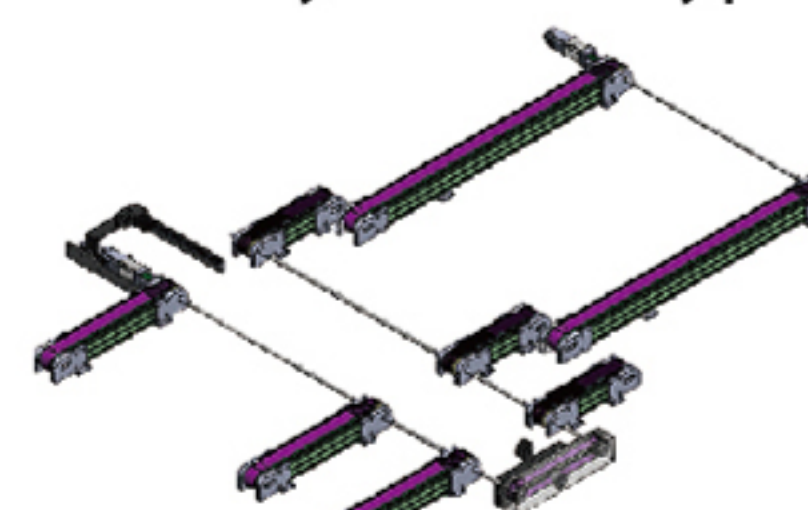
<PLC>



<K755 PV Module Inspection Software>



<DC Power Supply (Option)>



<Conveyor Belt Type>



<Barcode Reader>

System Specification

Model Name	K5500 PV Module Inspection System
Model Species	ELXB (Lamination Before), ELXA (Lamination After), ELXR (Repair). PLX
System Configuration	K301 Camera Set, K101 MDX DC Power Supply, Main Frame(Dark Room), Loader, Unloader, Conveyor, Control Unit Barcode Reader, PC & Monitor, Accessory
Camera number	ELXB : 6set, ELXA : 3set, ELXR : 2set, PLX : 6set
Auto detection	Mono > 2mm, Detection rate : 95% / Multi > 8mm, Detection rate : 80%
Tact Time	40 sec (option : 25 sec)
Measurement	Micro Crack, Printing/Firing Defects, EL/PL Intensity
Test Sample	Roller Conveyor Type, Stroke : Maxl. 2,000mm, Speed : 400mm/sec, Accuracy : 100um
Interface	PLC, 24V I/O, TPC/IP
Dimension	ELXB(2,500mm x 2,400mm x 1,500mm), ELXA(1,800mm x 2,400mm x 1,500mm), ELXR(2,100mm x 2,400mm x 1,500mm)
Test Sample	Crystalline Si Solar Module, Max. Size : 1,050mm x 2,000mm, Max. 8 x 12 Array Solar Module
Option	Barcode(Manual,Auto), MES, Printer, TV, Hipot, Ground Bonding
Utility	220V Single Phase 30A, Air press 6bar