Wide Scanning CIS

Features
Customized scanning width, resolution, LED light unit (internal or external) and data output (e.g. camera link) depends on your own needs.

Application
High precision of our CIS is widely applied to surface inspection in various industries such as printing, film, converters of electric components, textile, and food industry.

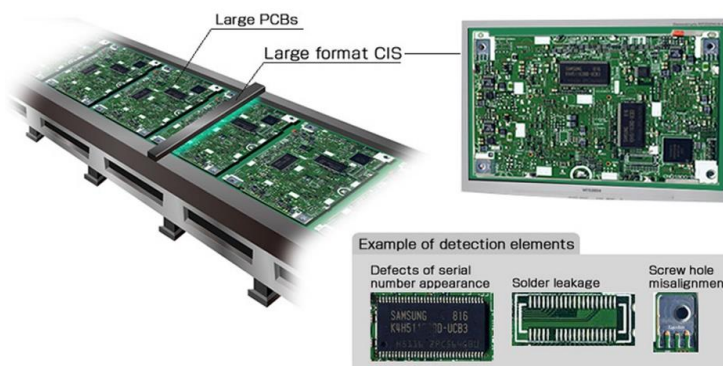|		Basic spec of PY / PL Series			Customization
Scanning width Resolution		310mm	650mm	940mm	1500mm	18mm~1960mm~
Scanning width		300dpi		600dpi		50dpi,100dpi,200dpi,300dpi,
Line speed	Monochrome:	19.2μs/line		32.7μs/line		600dpi,1200dpi (optional)
	Color:	57.7μs/line		98.2μs/line		
Scanning speed (8-bit, full output)	Monochrome:	4.39m/s		1.29m/s		
		51.0kHz/s		30.3kHz/s		
	Color:	4.39m/s		0.43m/s		
		51.0kHz/s		10.1kHz/s		
Clock Frequency		16MHz				
Inner light source		Red, Green, Blue (or without light source)				External HLU series
Output format		Camera link (or analog)				GigE, USB3.0 in developing
Focus position		9.1mm*PY / 14.8mm*PL (from glass surface)				0mm~20mm
Glass thickness		1.8mm				Special glass
Dimension (L*W*Hmm)		361*72*63	746*76*107	1026*76*107	1576*76*107	Customized shape
Product weight		0.6kg	3.3kg	4.6kg	4.6kg	
System solution support		Other technical services can be supported.				

For full output camera link (1IC/1Output): 1658mm:BASE x 2pcs, 2940mm:BASE x 3pcs, 31500mm:BASE x 5pcs.

Application Examples of Large format CIS
Large format CIS is based on a technology we have developed and offered for high-precision inspection and detection.
It supports reading widths of 800mm of greater and applied in electronic components, large-scale prints, apparel, and agriculture and food markets.
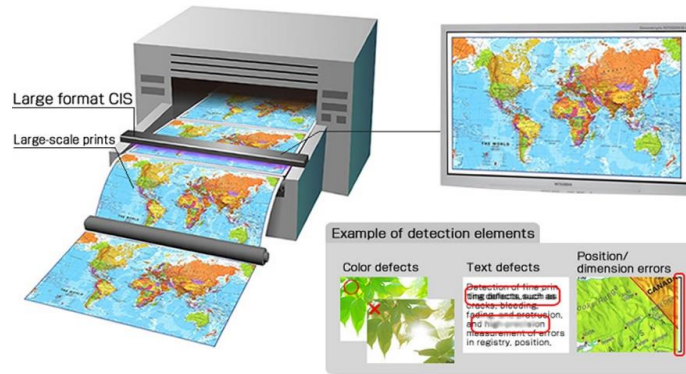
Electronic components
Soldering and fault detection on printed circuit boards (PCBs)

Large PCBs
Large format CIS

Example of detection elements
Defects of serial number appearance | Solder leakage | Screw hole misalignment
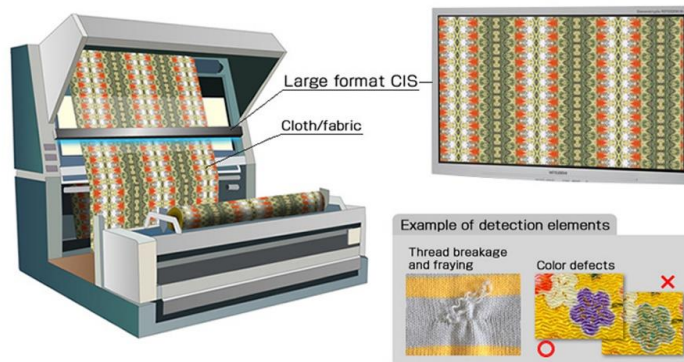
Large-scale prints

Detection of fine printing defects, such as cracks, stain, fading, and protrusion,
and high-precision measurement of errors in direction, position, angle, and dimensions of given locations.

Large format CIS

Large-scale prints

Example of detection elements

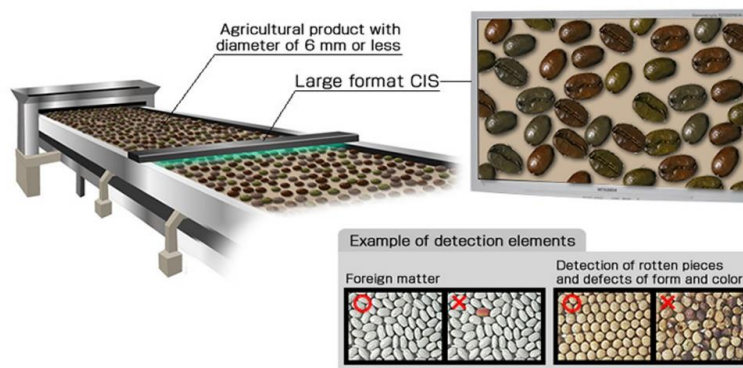Color defects   Text defects   Position/ dimension errors

Apparel

Detection of thread breakage and color defects in weaving with an automatic loom,
including reading of cloth patterns, form, and cutting dies

Large format CIS

Cloth/fabric

Example of detection elements

Thread breakage and fraying   Color defects

Agriculture and food

Detection of features such as size, form, bruises, scratches, color, and foreign matter

Agricultural product with diameter of 6 mm or less

Large format CIS

Example of detection elements

Foreign matter   Detection of rotten pieces and defects of form and color

* We are also able to apply the technology to other fields according to your needs.