

InnoScan[®] 1100 AL

Fluorescence Scanners



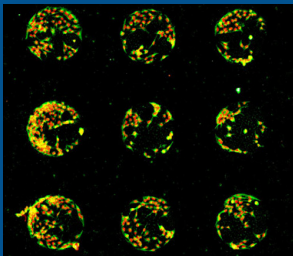
3-Color

Ultra High Resolution

Fluorescence Imager

Whole-slide imaging

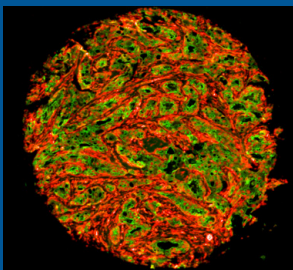
- 0.5 μ m/pixel resolution equivalent to 20x
- High sensitivity
- Simultaneous confocal PMT detection
- All standard microscope slides



CMA block imaged at 0.5 μ m/pixel and 532/635nm

Easy automation

- Fast
- Real-time autofocus or manual focus system
- 24-slide autoloader for high-throughput applications
- Easy and automated image acquisition with MAPIX software



TMA spot imaged at 0.5 μ m/pixel and 488/635nm

Applications

Cell Microarrays

Cell Microarrays (CMA) are used for applications such as Cell:ECM interaction studies, membrane receptor profiling, and more. The InnoScan 1100 AL allows users to **fully automate** their scans while obtaining **subcellular level analysis** capabilities.

Tissue Immunofluorescence

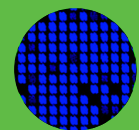
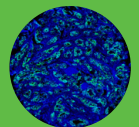
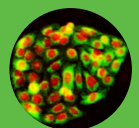
Fluorescence detection in tissue, and in **Tissue Microarrays (TMA)**, increases sensitivity of **biomarker validation**. The InnoScan 1100 AL allows **simultaneous detection** of up to three biomarkers directly in tissue.

High density Microarrays

High-density DNA and peptide arrays allow analysis of an entire genome and proteome. The InnoScan 1100 AL offers the **necessary resolution** to read these arrays.

Three color Microarrays

Three-color microarrays provide higher **multiplexing** capabilities as they allow the profiling of three different biomarkers in the same sample.



InnoScan® 1100 AL



Technical specifications

RESOLUTION	0.5-40µm/pixel		
LASER EXCITATION WAVELENGTH	● 488nm	● 532nm	● 635nm
	Cy2	Cy3	Cy5
COMPATIBLE FLUOROPHORES *	Alexa488	Alexa555	Alexa647
	FITC	Sytox Orange	Draq5
LOADER CAPACITY	24 slides		
LASER POWER	Two adjustable laser powers		
DETECTION TYPE	Real-time confocal with 3 analog photomultipliers (PMT)		
PMT GAIN	Linear from 0.1 to 100% (step 0.1 from 0.1 to 1% and 1 from 1 to 100%)		
OPTICAL FILTER	7-position filter wheel 1 standard fluorescence filter and 1 neutral density filter per channel (5 additional filters on request)		
FOCUS	Real-time autofocus Manual focus: offset adjustment 300µm range, 1µm increment		
SLIDE SIZE	Compatible with all standard microscope slides: 25-26 x 75-76 mm ² / 1" x 3" ; thickness: 0.9 - 1.2 mm		
SCANNING AREA	Adjustable up to 22 x 74 mm ²		
SCANNING SPEED	From 20 to 35 lines/second (25 lines/s max for 0.5µm pixel size) (3.55 min. per slide (at 10 µm, 3 colors) and 10.5 min. for an area of 22 x 22 mm ² (at 1 µm, 3 colors))		
DYNAMIC RANGE	> 4 orders of magnitude in normal mode > 6 orders of magnitude in extended dynamic range mode		
UNIFORMITY	< 5% CV		
BARCODE READER	Automatic barcode reading		
INTERFACE	Ethernet interface		
IMAGE FORMAT	TIFF (16-bit and 20-bit in dynamic extension mode)		
POWER SUPPLY	~ 100-240 VAC, 1.2 A, 47-63 Hz		
ACQUISITION SOFTWARE	MAPIX (image acquisition and spot quantification software)		
DIMENSIONS (LXDXH)	33 x 66 x 44 cm ³ (13"x26"x17.3")		
WEIGHT	39 kg (85.8lbs)		

* Non exhaustive list, please contact us for more information about fluorophore compatibility

Class I Laser Product
For Research use only

Specifications subject to change without notice.
Contact us for the most recent specifications.

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INNOPSYS

Carbonne - FRANCE
+33 561 971 974
contact@innopsys.fr

Chicago, IL - USA
+1 312 235 3587
contact@innopsys.com

www.innopsys.com