

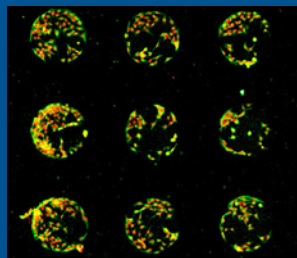
InnoScan[®] 1100

Fluorescence Scanners

3-Color

Ultra High Resolution

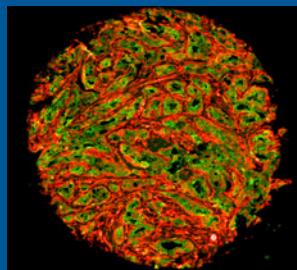
Fluorescence Imager



CMA block imaged at 0.5µm/pixel and 532/635nm

Whole-slide imaging

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



TMA spot imaged at 0.5µm/pixel and 488/635nm

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

Applications

Cell Microarrays

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

Tissue Immunofluorescence

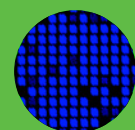
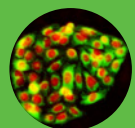
Fluorescence detection in tissue, and in **Tissue Microarrays (TMA)**, increases sensitivity of **biomarker validation**. The InnoScan 1100 allows **simultaneous detection** of up to three biomarkers directly in tissue.

High density Microarrays

High-density DNA and peptide arrays allow analysis of an entire genome and proteome. The InnoScan 1100 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



Technical specifications

RESOLUTION	0.5-40µm/pixel		
LASER EXCITATION WAVELENGTH	● 488nm	● 532nm	● 635nm
DETECTION RANGE *	● 502-519nm	● 550-610nm	● 663-750nm
COMPATIBLE FLUOROPHORES **	Cy2	Cy3	Cy5
	Alexa488	Alexa555	Alexa647
	FITC	Sytox Orange	Draq5
LOADER CAPACITY	Single slide (<i>InnoScan 1100</i>) or 24 slides-Autoloader (<i>InnoScan 1100 AL</i>)		
LASER POWER	Two fixed 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 10 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	> 95%		
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)	InnoScan 1100: 316 x 549 x 432 mm ³ (12.5" x 21.6" x 17.0")		InnoScan 1100 AL: 330 x 660 x 440 mm ³ (13"x26"x17.3")
	InnoScan 1100: 30 kg (67 lbs)		InnoScan 1100 AL: 35 kg (73 lbs)

* Maximal detection range for each channel, the detection range will be in accordance with the chosen emission filter. Chosen filter should block every excitation wavelength (OD>5). Please contact us for any additional information

** 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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