

cellTRAY Imaging System Product Specifications

Nanopoint is a privately-held life sciences instrumentation and microfluidics platform company that is advancing biomedical research with its extended time-lapse live cell imaging solutions. Nanopoint's award-winning, patented cellTRAY®, patent-pending automated microfluidics delivery system, on-stage incubation system and proprietary imaging software provides solutions to a broad spectrum of applications including drug discovery, assisted reproductive technologies, lab-on-a-chip, stem cell research, and bio-detection.

The cellTRAY® Imaging System has won major awards for innovation and design excellence:

- 1) 2009 Frost and Sullivan North American Cell Imaging Solutions Product Innovation of the Year Award,
- 2) 2009 ID Magazine Annual Design Review Best of Category – Equipment, and
- 3) 2009 International Design Excellence Award Gold Medal Winner in Medical & Scientific Products.

For more information on any of our products please visit us on the Web at:
www.nanopointimaging.com

cellTRAY® slide: CT-2601	
Dimension (W x L x H)	25.4 x 76.2 x 4 (mm)
Well size (W x L x H)	1.5 x 1.5 x 3 (mm)
Channel section (W x H)	1.5 x 0.1 (mm)
Capacity	6 regions, 1 well/region
Materials	Polycarbonate (top), borosilicate glass (bottom), RTV (bonding agent)
Autoclavable	Yes

Stage-Top Incubator	
Temperature range	Room temperature to 45°C (heat only)
Temperature stability	±0.1°C
Humidity	90-100% (relative humidity)
Humidity chamber capacity	30 (mL)
Gas port fitting	Barbed for 1/16" ID silicone tubing
Stage adaptor	Standard well-plate footprint
Autoclavable	Humidifier (No); Heater (No); Manifold Base (Yes); Manifold Top (Yes-remove plastic elbow used by humidifier); Conical Lids (No); Gas Line Tubing (No)

Fluidics Tower	
Pumps	Syringe-type pumps
Delivery range	0.01 - 50 (µL/s)
Flow resolution	0.002 (µL)
Dispense volume range	0.1 – 250 (µL)
Available syringe capacity	125, 250, and 500 (µL)
Power	110-220 volts AC
Weight	13.5 (kg) / 30 (lbs)
Size (W x D x H)	19.5 x 24 x 55 (cm) / 7.7 x 9.4 x 21.7 (in)
Autoclavable	Tubing (Yes-nylon wrap version only); Syringes (Yes-keep intact); Valves (No); Flow meter (No)

Prior Pro Scan System	
Stage travel range	114mm x 75mm
Minimum step size (resolution)	0.01µm
Load capacity	10kg
Stepper motor	4 phase, 1 amp per phase, micro-stepping

cellTRAY Imaging Parameters	
Sensor type	1/2" CCD
Effective pixels	1392 x 1040, 1.4 megapixels
Frame rate	15 fps at 1392 x 1040
Dynamic range	67 dB
Digital output	8 and 12 bit
Pixel size	4.65 x 4.65 (µm)
Full well capacity	>18,000 electrons
Read noise	12 e- rms
Interface	USB 2.0
Image formats	TIFF, JPG, BMP
Time lapse	User definable

Customer Microscope Pre-Requisites	
<ul style="list-style-type: none"> • Inverted (10x objective) • Available camera port • Appropriate C-mount adapter (1/2" format) • Regulated CO₂ supply (optional) 	

Desktop Computer
Intel Core 2 Duo Processor (2.4 GHz)
3 GB RAM (memory)
250 GB Hard Disk Drive
DVD-Recordable
USB 2.0 Ports
Serial Port
Microsoft Windows 7
Microsoft .Net 3.5 or later
cellTRAY Manager
cellTRAY Life Support Manager
Flat Screen Monitor

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