

ImageStream^x Specifications

Advanced engineering creates exceptional performance

PERFORMANCE CHARACTERISTICS

	Magnification		
	40X	60X	20X
Numeric Aperture	0.75	0.9	0.5
Pixel Size	0.5 x 0.5 µm	0.3 x 0.3 µm	1.0 x 1.0 µm
Field of View	60 x 256 µm	40 x 170 µm	120 x 512 µm
Imaging Rate	1,000 cells/sec	600 cells/sec	2,000 cells/sec

SAMPLE CHARACTERISTICS

Volume: 50 µl

Utilization Efficiency: > 50% of sample

Throughput: 1 sample/min nominal

AUTOMATED INSTRUMENT OPERATIONS

Start up and shut down

Sample load and acquisition

Laser alignment, focus adjustment, calibration and self test

OPERATIONAL REQUIREMENTS

350 W, 90-240 VAC, 50-60 Hz

100 Mbps ethernet, minimum

No external air or water necessary

PHYSICAL CHARACTERISTICS

36" W x 26" H x 24" D (91 cm x 66 cm x 61 cm)

350 lbs (159 Kg)

SPECTRAL IMAGING BANDS AND APPLICABLE DYES

CHANNEL 1 420-480 nm	CHANNEL 2 480-560 nm	CHANNEL 3 560-595 nm	CHANNEL 4 595-660 nm	CHANNEL 5 660-740 nm	CHANNEL 6 740-800 nm	CHANNEL 7 420-505 nm	CHANNEL 8 505-570 nm	CHANNEL 9 570-595 nm	CHANNEL 10 595-660 nm	CHANNEL 11 660-740 nm	CHANNEL 12 740-800 nm
Brightfield	FITC GFP YFP Acridine Orange Alexa Fluor 488 Alexa Fluor 500 Alexa Fluor 514 SYTO Spectrum Green LysoTracker Green DyeCycle Green Calcium Green-1 MitoTracker Green DyLight 488	DsRed Dil Cy3 R-phycoerythrin OPF Alexa Fluor 546 Alexa Fluor 555 DyLight 549 Calcium Orange	7-AAD PE-Texas Red (ECD) PE-Alexa Fluor 610 Propidium Iodide Spectrum Orange MitoTracker Red LysoTracker Red RFP mCherry Alexa Fluor 568 Alexa Fluor 594 Alex Fluor 610 DyLight 594 Texas Red	PerCP PerCP-Cy5.5 PE-Alexa Fluor 647 PE-Alexa Fluor 680 PE-Cy5 PE-Cy5.5 DRAQ5 Nile Blue	PE-Cy7 PE-Alexa Fluor 750 Darkfield (SSC)	DAPI Hoechst 33258 CFP Alexa Fluor 405 Marina Blue Pacific Blue Cascade Blue LIVE/DEAD Violet DyLight 405 eFluor 450 Spectrum Aqua	Alexa Fluor 430 Pacific Orange Cascade Yellow Lucifer Yellow Qdot 525 Qdot 545	Qdot 565 Qdot 585	Qdot 605 Qdot 625 eFluor 605 mCherry Alexa Fluor 568 Alexa Fluor 594 Alexa Fluor 610 DyLight 594 Texas Red Spectrum Red Calcium Crimson	Qdot 705 eFluor 650 Nile Blue APC APC-Cy5.5 DyLight 649 MitoTracker Deep Red Alexa Fluor 647 Alexa Fluor 660 Alexa Fluor 680 DRAQ5 Cy5 Cy5.5	Qdot 800 APC-Cy7 APC-Alexa Fluor 750 APC-eFluor780 DyLight 750

Excitation Lasers:

405 nm diode laser

488 nm solid state laser

561 nm solid state laser

658 nm diode laser

Note: Twelve image channel configuration shown. Multiple lasers can be used in six image channel configuration. Other laser lines are available. Please contact Amnis for more information.