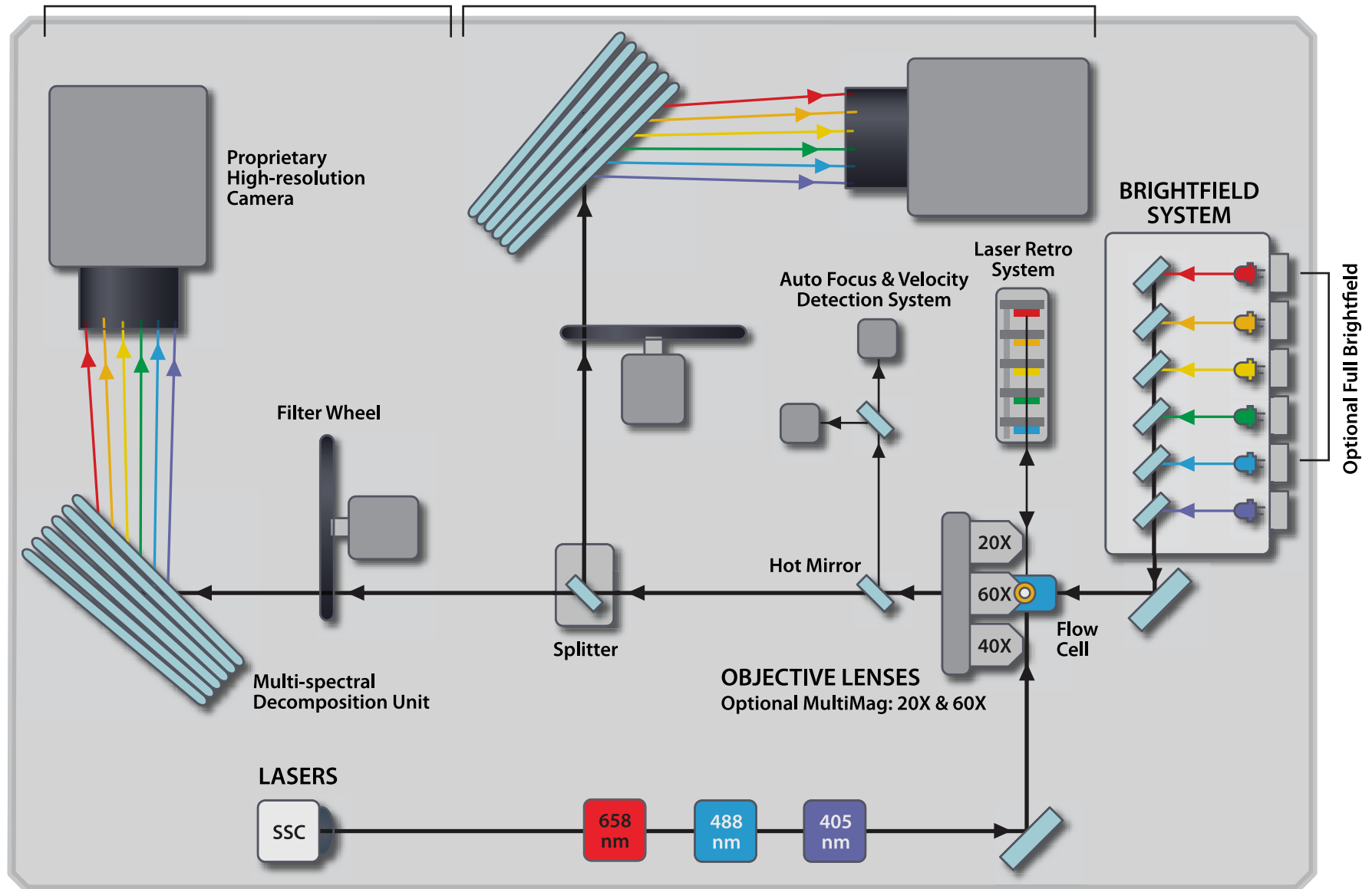


STANDARD COLLECTION SYSTEM

Image Channels: 1-6

OPTIONAL COLLECTION SYSTEM

Image Channels: 7-12



*AF: Autofocus laser, 830 nm

SSC: Side Scatter Laser, 785 nm

ImageStream^x Specifications

Advanced engineering creates exceptional performance

AUTOMATED INSTRUMENT OPERATIONS

Start up and shut down

Sample load and acquisition

Laser alignment, focus adjustment, calibration and self test

PERFORMANCE CHARACTERISTICS

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

SAMPLE CHARACTERISTICS

Images per Cell	Up to 12
Imaging Modes	Brightfield, SSC, and fluorescence
Sample Throughput	1 sample/minute nominal
Automated Processes	Startup, shutdown, and self-calibration
Volume	50 µl
Utilization Efficiency	> 50% of sample

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 OFP	7-AAD PE-Texas Red (ECD) PE-Alexa Fluor 610 Propidium Iodide	PerCP PerCP-Cy5.5 PE-Alexa Fluor 647 PE-Alexa Fluor 680 PE-Cy5 PE-Cy5.5 DRAQ5	PE-Cy7 PE-Alexa Fluor 750 Darkfield (SSC) Use either Fluorescence Or Darkfield	DAPI Hoechst 33258 CFP Alexa Fluor 405 Marina Blue Pacific Blue Cascade Blue LIVE/DEAD Violet DyLight 405 eFluor 450 Spectrum Aqua Brilliant Violet 421 Horizon V450	Alexa Fluor 430 Pacific Orange Cascade Yellow Lucifer Yellow Qdot 525 Qdot 545 LIVE/DEAD Aqua Brilliant Violet 570 Horizon V500	Qdot 565 Qdot 585 Brightfield 2*	Qdot 605 Qdot 625 eFluor 605	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 TO-PRO-3	Qdot 800 APC-Cy7 APC-Alexa Fluor 750 APC-eFluor780 DyLight 750

CAMERA 1

CAMERA 2

Excitation Lasers: 405 nm diode laser 488 nm solid state laser 658 nm diode laser

* 2 brightfield channels are necessary when using fluorochromes detected by both cameras. Brightfields can be set to channel 1&9, 2&8, 4&10, 5&11 or 6&12.

Consumables:

1.5mL Microcentrifuge Tubes, siliconized	Sigma	Catalog# T4816	250
Pierceable Plate Cover	X-Pierce	Catalog# XP-100	100