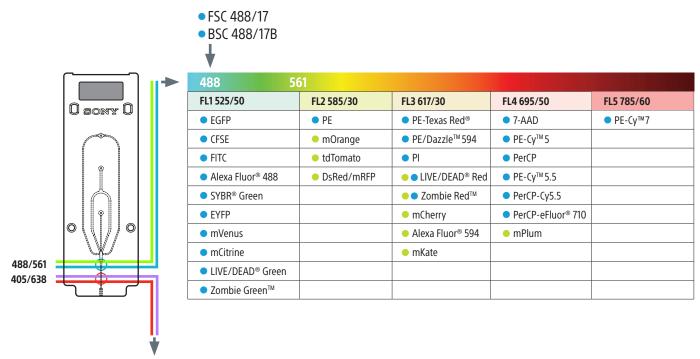


MA900 Fluorochrome Guide

## MA900 Fluorochrome Guide: For 4-laser, 12-color models LE-MA900F/FP



405	638						
FL6 450/50	FL7 525/50	FL8 585/30	FL9 617/30	FL10 665/30	FL11 720/60	FL12 785/60	
<ul><li>BV421</li></ul>	AmCyan	<ul><li>BV570</li></ul>	<ul><li>BV605</li></ul>	<ul><li>BV650</li></ul>	<ul><li>BV711</li></ul>	● BV785	
<ul> <li>Alexa Fluor® 405</li> </ul>	<ul><li>BV510</li></ul>	■ Zombie Yellow™		• APC	<ul><li>APC-Cy5.5</li></ul>	● APC-Cy7	
<ul> <li>Zombie Violet™</li> </ul>	<ul><li>T-Sapphire</li></ul>	<ul> <li>LIVE/DEAD® Yellow</li> </ul>		<ul><li>Cy5</li></ul>	<ul> <li>Alexa Fluor® 700</li> </ul>	APC-Alexa Fluor® 750	
<ul> <li>LIVE/DEAD® Violet</li> </ul>	<ul> <li>Pacific Orange™</li> </ul>			<ul> <li>Alexa Fluor® 647</li> </ul>		● APC/Fire™ 750	
<ul><li>DAPI</li></ul>	<ul> <li>Zombie Aqua™</li> </ul>			LIVE/DEAD® Far Red		● Zombie NIR™	
<ul> <li>Pacific Blue™</li> </ul>	<ul> <li>LIVE/DEAD® Aqua</li> </ul>					● LIVE/DEAD® NIR	
• mCFP							
• BFP							
<ul> <li>SYTOX™ Blue</li> </ul>							
<ul><li>Hoechst 33342</li></ul>							

## Legend:

The MA900 cell sorter can be equipped with up to four lasers and two beam spots. Each beam spot is spatially separated and contains two lasers (model dependent).

The 488- and 561-nm lasers are on Spot 1, while the 405- and 638-nm lasers are on Spot 2. For panel design, select one dye from each FL channel of each beam spot. Dyes from the same FL channel cannot be run together. Each dye's circle label indicates its excitation laser. FSC and BSC scatter is detected with the 488-nm laser. Use the Compensation Wizard for determining the fluorescence spillover compensation.



SH800 and MA900 Sorting Chip Guide

## SH800 and MA900 Sorting Chip Guide

Part number	LE-C3207	LE-C3210		LE-C3213			
Nozzle size	70 μm	100 μm		130 μm			
Mode		Standard	Targeted				
Drop frequency (Empty drops/second)	~50 K	~30 K	~22 K	~12 K			
Max suggested* event rate	12 K	6 K	<4 K	2.5 K			
(Total events/second)	*When sorting for purity, do not exceed the indicated event rate.						
Drop volume	1.5 nL	3 nL	4 nL	7.9 nL			
Sorted events/1 mL (of sorted volume)	~700 K	~333 K	~250 K	~40-125 K			
Application	Fastest sort speed     Limited to small particles     Runs at highest pressure	Most common nozzle for various cell types     Targeted Mode improves targeting precision of larger cells with uneven geometry into tubes or multi-well plates		<ul> <li>Provides best viability</li> <li>Runs at lowest pressure</li> <li>Slowest sort speed</li> <li>Can sort any cell size under 25 μm</li> </ul>			
Cell type examples	RBC <i>E. Coli</i> Yeast Spleen Lympl	Bone Marrow  Cultured	CHO Macrophages d Stem Cells	Neurons ES cells Hybridoma K562 HeLa			
				Fibroblasts HEK-293T			
FSC gain	16 8	4		0.5-1			
Particle size (Nozzle size must be 5 to 7x larger than particle size)	<10 μm	<18 µm		<25 μm			
	Cell Sorter software autocalibrates optimal settings for each individual chip						
Pressure	40 psi	20 psi		9 psi			
Frequency (clock)	40-52 kHz	27–31 kHz	21–23.5 kHz	10-12 kHz			
Droplet profile			-	•			