

Our ImageStream X MK II specifications (דף שלישי)

Magnification: users can choose between the three following Objective lens

| | 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 128 μm | 40 x 170 μm | 120 x 256 μm |
| Imaging Rate | 2,000 cells/sec | 1,200 cells/sec | 4,000 cells/sec |

Lasers and optics: our ISX is equipped with two excitation lasers; 488nm and 642nm. This allow easy simultaneous combination of two fluorescent dyes. The 488nm laser can also be used to excite two more fluorescent dyes simultaneously – with the need of careful adjustments. The full spectral setup of the machine and example fluorophores:

| ISX BGU | | Excitation Lasers (nm) | | |
|---------|---------------------|------------------------------------|---------------------------|----------|
| Ch | Band (nm) | 488 | 642 | 785 Dark |
| 1 | BF | | | |
| 2 | 505-560 (527/65) | GFP FITC AF488 | | |
| 3 | 560-595 (577/35) | PE mOrange Cy3 | | |
| 4 | 595-640 (610/30) | RFP, 7AAD, PI, PE- TexRed | | |
| 5 | 640-745 (702/86) | PE-Cy5, PerCP | APC, AF647, Cy5, DRAQ5 | |
| 6 | 745-760 (762/35) | PE-Cy7, QD800 | APC-Cy7, APC-AF750 | SSC |