Widefield 6 (August 2020)

Technical Specifications

- Leica LASX live cell imaging workstation with Photometrics Prime 95B sCMOS camera (1200x1200 11µm pixels, 8 ,12 bit or 16 bit, 70 fps full frame).
- Leica DMI6000 inverted epifluorescence microscope with phase-contrast and DIC available for some lenses.
- Adaptive Focus Control (AFC) for live cell applications ensures that the specimen is actively kept in focus during a timecourse.
- Motorized stage - enables multi-position image acquisition.
- Leica LAS-X acquisition software. Automated multi-channel, multi-focus and multi-site image acquisition.
- Synchroniser allows fast switching between transmitted light and fluorescence channels
- Shuttering of incident light allows integrated fluorescence and transmitted light time-lapse imaging.
- Environmental control chamber (Solent) allowing long-term temperature control and CO_2 enrichment. • Live data mode available on request

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Filter carousel

Position	Fluorophore	Excitation filter	Dichroic mirror	Emission filter
1	DAPI	350/50	400	BP 460/50
2	GFP	480/40	505	BP 527/30
3	Rhod	546/10	560	BP 580/40
4	Tx Red	560/40	595	BP 645/76
5	Far Red	620/60	660	BP 700/38
6	Analyser	Used for DIC		

Lenses

Lens	Dry/ Oil	Phase contrast	DIC	Working distance (mm)	Numerical aperture	Features	AFC	Serial number	Pixel width at 1x zoom in microns
5x HC PL Fluotar	Dry	No	No	12	0.15		No	506504	2.2
10x HC PL Fluotar	Dry	No	Yes	11	0.32		Yes	506522	1.1
20x N PLAN	Dry	Yes	Yes	3.2	0.4	Coverglass thickness correction	No?	506058	0.55
40x HCX PL Fluotar	Dry	No	Yes	3.3	0.6	Coverglass thickness correction	Yes	506201	0.275
40x HCX PL APO	Oil	Yes	No	0.1	1.25		No	506181	0.275
100x HCX PL APO	Oil	No	Yes	0.09	1.4	Iris Diaphragm	Yes	506220	0.11

Other lenses available on request

20x PL APO CS2	Dry	No	Yes	0.62	0.75		Yes	506517	0.55
63x HC PL APO CORR	GLYC	No	Yes	0.3	1.3	Coverglass thickness correction	Yes		0.175