

# Specifications

## Leica THUNDER fluorescence microscope

### STAND

Leica DMI 8 Inverted microscope with fully motorized objective nosepiece, stage and fluorescence filters change,

### OBJECTIVES

- N PLAN 5x/0.12 PH0 dry
- N PLAN 10x/0.25 PH1 dry
- HC PL APO 40x/0.95 CORR dry
- HC PL APO 40x/1.30 OIL CS2
- HC PL APO 63x/1.40-0.60 OIL
- HCX PL APO 100x/1.40-0.70 OIL

### EXCITATION

LED 8 light source

Excitation: 395, 438, 475, 511, 555, 575, 635, 730nm

### EMISSION

- Filter cube CYR71010/11525416:  
Excitation: 436/28, 506/21, 578/24, 730/40  
Dichroic: 459, 523, 598, 763  
Emission: 473/22, 539/24, 641/78, 810/80
- Filter cube DFT51010/11525418, size P  
Excitation: 391/32, 479/33, 554/24, 638/31  
Dichroic: 415, 500, 572, 660  
Emission: 435/30, 519/25, 594/32, 695/58
- Extra emission filters: 460/80 535/70 590/50 642/80 100%

### DETECTION

K8 Camera; 95% quantum efficiency (QE) back-thinned CMOS sensor.

### STAGE / INCUBATION

- Automated high precision (Quantum) x,y,z stage with autofocus
- OKOlabs Cage incubator, Temperature and CO2 controlled

### SOFTWARE

- LAS X /Thunder acquisition, includes:  
Instant Computational Clearing (ICC) for removal of out of focus background  
Small Volume Computational Clearing (SVCC) ICC for z-stacks  
Large Volume Computational Clearing (LVCC) 3D ICC and deconvolution

