Technical Specification

Specification		
Microscope	Imaging Mode	Epi-Fluorescence, Transmitted light(Simple bright-field), Phase Contrast
	Imaging Application	Fluorescence Imaging, High-Contents Screening, Live-Cell Imaging, 2D/3D/Real-time Deconvolution, Multi-dimensional Imaging (X, Y, Z, T, λ) • Time-lapse • Multi-color • Multi-position • Mosaic(Stitching, Montage) for large field of view
	Objective Lens	• PlanApo λ² 10X(NA0.45), 20X(NA0.75), 40X(NA0.95), 4X(NA0.20), 60xH(NA1.40), 100xH(NA1.45) • CFI Plan Fluor DLL 10X(NA0.30), 20X(NA0.50) (with 6-position motorized nosepiece)
	Illumination Source	Epi-Fluorescence: 385mm, High-power White LED/Bright-field, White LED
	Autofocus	Image based Autofocus, Real-time focus correction by NIR sensing
	Fluorescence Channels	DAPI, GFP, TRITC, CFP, YFP, Cy5 (with 6-position motorized filter cube)
sCMOS Camera	Imaging Camera	5.5MP(2560X2160 pixels), 16-bit gray scale, 0.9 E-read noise
	Pixel Size	6.5x6.5μm²
	Frame Rate	40fps@Full resolution/100fps@2x2 Binning
	Binning Factor	2x2, 3x3, 4x4, 8x8
Incubator System	Compatible Imaging Chamber	Multi-well Plate(up to 1536), 35/50/60mm Culture Dish, Chambered Slide glass, Chambered Coverslip etc.
	Temperature Control Range	Ambient +3°C~45°C
	Gas Control Range	CO_2: 0~20%, O_2: 0~99%
	Humidity Control Range	Incubator inside controlled by up to 80~90% relative humidity
PC	Display & PC	27" FHD monitor/ Win10/ i5 8th-gen/ 256GB SSD/ 2TB HDD/ GPU
Etc.	Ambient Operating Temperature	20°C~30°C(68°F~86°F)
	Dimensions	32in x 25in x 22in(WxDxH)/80cm x 63cm x 57cm(WxDxH)
	Weight	120kg

※ The optical parts in Image ExFluorer are sourced from Nikon Instruments

- End-user can select other obj. lens for specific imaging application.