

X-Cite® Product Selection Guide

		X-Cite® 120q	X-Cite® 120q w/iris	X-Cite® 120PC q	X-Cite® <i>exacte</i>
Lamp					
Intelli-Lamp®	automatic hour tracking, temperature monitoring	○	○	○	○
Pre-alignment	fast, easy, safe installation	○	○	○	○
2000 hour warranty	guaranteed long life	○	○	○	○
Broad spectrum	excites wide range of fluorophores	○	○	○	○
DC powered	improved stability				○
Stability					
Closed-Loop Feedback (CLF)	compensates for changes in lamp output, provides stable output over days				○
0 - 20ms stability	ideal for high speed acquisitions, flash photolysis and other ultra-fast applications				○
Milliseconds to seconds stability	ideal for structured illumination, video rate acquisitions, tiling and other short-medium term applications	○	○	○	○
Seconds to hours stability	ideal for general fluorescence assays and other medium term applications	○	○	○	○
Hours to days stability	ideal for cell culture time-lapse, comparative and quantitative studies over multiple time points and other long term applications				○
Measurable output	light guide compatible with X-Cite® Optical Power Meter	○	○	○	○
Calibrated output option	absolute power reading in watts, provides repeatability				○
Illumination Uniformity					
Microscope Adaptor	compatibility with modern microscopes from all major manufacturers	○	○	○	○
Liquid light guide	ensures homogeneity, allows isolation of microscope from heat and vibration	○	○	○	○
Intensity Adjustment					
5-step iris (100%, 50%, 25%, 12%, 0%)	limits photobleaching		○	○	
100-step iris (1% increments)	limits photobleaching with improved ability to optimize specimen illumination				○
Shutter	turn illumination on/off without having to readjust iris constantly			○	○
Shutter - high speed	high speed acquisition, critical exposures				○
Band pass filter	removal of cell-damaging deep UV and IR wavelengths				○
Remote Control					
Foot Pedal	hands-free operation of shutter			○	○
Graphical user interface (GUI)	computer control of all functions, unit status information (including CLF)			○	○
Open code for all functions	easily adaptable to many software platforms			○	○
RS-232 connector	standard communication port			○	
USB connector	easy to use with today's standard computers				○
TTL	high speed shutter activation				○
Safety					
Interlock switches	prevents unit from running with access panels open	○	○	○	○
Light shields/shutter	automatic shielding of light when light guide is not inserted	○	○	○	○
Light guide detection	ensures proper/complete insertion of light guide				○