X-Cite® LED Systems Overview

	X-Cite mini+®	X-Cite XYLIS™ II	X-Cite 110LED	X-Cite TETREM™	X-Cite NOVEM™	X-Cite XLED1
LED Type	Broadband	Broadband	Broadband	4 independent wavelengths	9 independent wavelengths	4 switchable wavelengths
Wavelength Range	360-690 nm	360-770 nm	375-660 nm	360-660 nm	340-800 nm	9 LED options (380-750 nm)
LED Warranty	20,000 hours	25,000 hours	25,000 hours	25,000 hours	25,000 hours	20,000 hours
Intensity Control	1% increments	1% increments	1% increments	1% increments	1% increments	0.1% increments
Analog Intensity Control	No	No	No	Yes	Yes	No
Manual Control	speedDIAL	speedDIAL	speedDIAL	smartDIAL™	speedDIAL	Yes (optional XLED controller)
Shutter Speed	1 ms USB 100 µs TTL	1 ms USB 100 µs TTL	1 ms USB 100 µs TTL	1 ms USB 100 µs TTL	1 ms USB 100 µs TTL	500 µs USB 10 µs TTL
Foot Pedal	Optional[1]	Optional[1]	No	No	No	No
PC Control	Yes	Yes	Yes	Yes	Yes	Yes
Consumables	None	Liquid light guide	Liquid light guide	Liquid light guide	Liquid light guide	Liquid light guide
Coupling	Direct coupling	Light guide	Light guide	Light guide	Light guide	Light guide
Applications	• DAPI to Cy5	• DAPI to Cy7 • Live cell and large format scanning • F.I.S.H. • Stereomicroscopes, macroscopes	• DAPI to Cy5	• DAPI/FITC/TRITC/Cy5 • Channel 3 can be used for YFP/TRITC/mCherry • 4-channel fast-switching LED • Live cell imaging	• Fura-2 to IR800 • 9-channel fast-switching LED • Live cell imaging • F.I.S.H.	• DAPI / FITC / TRITC / Cy5 • 4-channel fast-switching LED • Optogenetics • Live cell imaging
Additional Features	• UV off mode • “Favorite” intensity preset feature	• LaserLED Hybrid Drive® for extremely bright red emission • UV off mode • “Favorite” intensity preset feature • Whisper quiet operation	• Compact footprint	• Filter holder for channel 3 • Compact footprint • Up to 4 user profiles	• LaserLED Hybrid Drive • 4-position motorized filter changer (500ms) • Preinstalled clean up filters (optional) • Whisper quiet operation	• Clean-up filter holders included • Field-replaceable, modular LED design

[1] Foot pedal input port is included in this model. Foot pedal device is sold separately.

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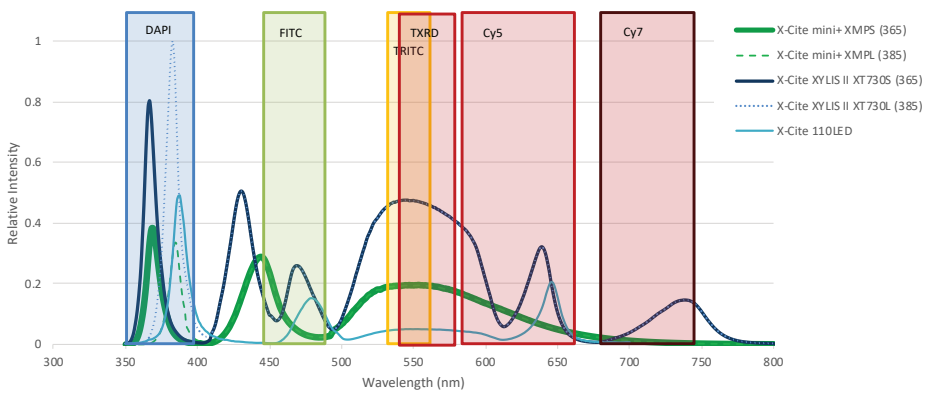
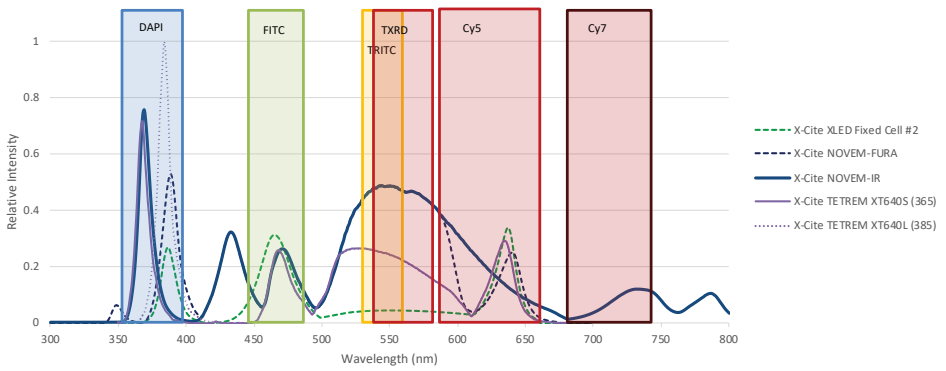
X-Cite® Spectral Comparison

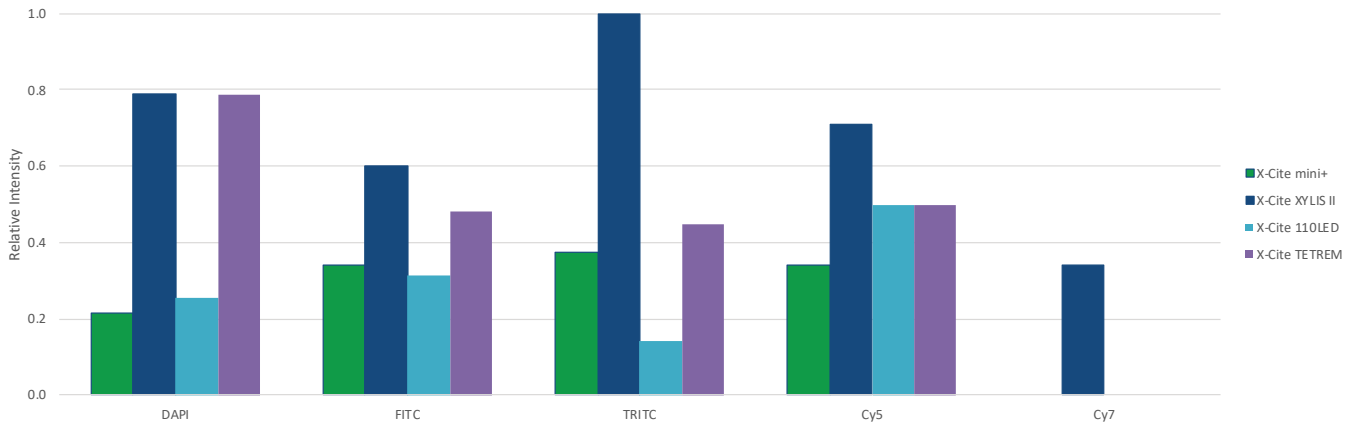
Broadband Systems



Systems with Independent LED/Channel Control



Objective Plane Power



- For LLG coupled systems, measurements were obtained with a 3 mm x 1.5 m Liquid Light Guide.
- For direct coupled systems, measurements were scaled for realistic comparisons to LLG coupled systems.
- In all cases, light coupling efficiency depends on the microscope optics, filters, dichroics, etc.
- Data represents typical output levels. Output will vary between individual units.
- Filter bands shown: 377/50, 470/40, 545/25, 560/40, 620/60, 710/70.

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