X-Cite®

Fluorescence Illumination • In Control

X-Cite Vitae™ *vIR & vIR+*

Versatile, high performance solid-state illumination

Upgrade 180W & 300W Xenon sources with a high power solution

Maintain color balance over lifetime with optional feedback sensors

Ensure consistent color uniformity across large field of view

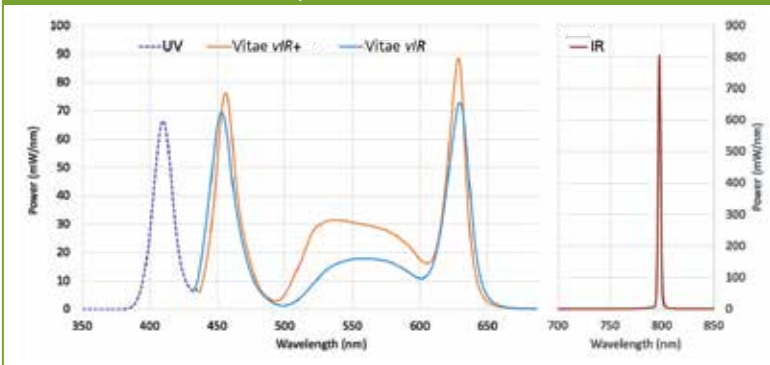Maximize coupling efficiency to application-specific light delivery

EXCELITAS
TECHNOLOGIES®

X-Cite Vitae™ *vIR* and *vIR+*

The X-Cite Vitae *vIR* and *vIR+* are customizable, multi-wavelength illumination systems designed for high precision medical illumination and diagnostic applications such as endoscopy and surgical visualization. The high brightness white light source is designed with equivalent lumens to replace 180W or 300W Xenon sources, and features adjustable color temperature in an easily-integrative turnkey system.

With an advanced optical design, the X-Cite Vitae *vIR* and *vIR+* will match any CCT with individual RGB control, and can achieve CRI of over 90% required for medical applications. The addition of UV and NIR wavelengths allows for excitation of surgical fluorophores ranging from PPIX (UV excitation) to ICG (NIR excitation).

X-Cite Vitae *vIR and vIR+* Spectrum

TECHNICAL SPECIFICATIONS • X-Cite Vitae *vIR* and *vIR+*

Output	Customized fiber and light delivery	
	Color	**Wavelength Range (nm)**
Wavelengths*	UV	400 - 425 >1.5W output
	Blue	435 - 470
	Green	500 - 600
	Red	610 - 645
	IR	795 - 805 >5W output
Response Times	TTL/Analog = 100us @100%, 1ms between colors	
Control Options	Manual on/off and intensity control – 1% increments for each color USB, RS232, TTL, Analog	
I/O Connectivity	TTL – input for on/off control: 2.4V-5V TTL compatibility Analog – input for intensity control	
Color Temperature	Tunable CCT for RGB white configuration	
Color Rendering Index	Spectral shaping for high CRI	
Feedback Sensors	Output monitoring	
Input Voltage	100-240 VAC, 50/60Hz; 7.3A/3.0A	
System Dimensions	12.0" x 13.0" x 6" (L x W x H)	

*Customizable upon request

Contact us at X-Cite@excelitas.com to discuss how the X-Cite Vitae *vIR* and *vIR+* can be customized to meet your integration needs.