

X-Cite®

X-Cite Vitae™ *v/RX*

Innovative and versatile biomedical illumination platform

Precision tuning and exceptional optical stability

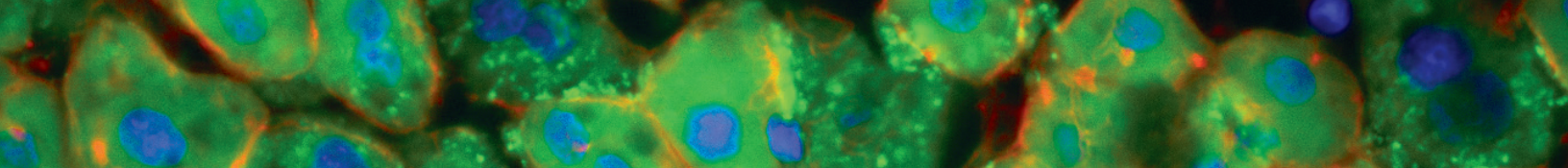
Accurate and consistent color temperature and uniformity across large field of view

High optical power with fully customizable design

Optimized coupling efficiency and light delivery



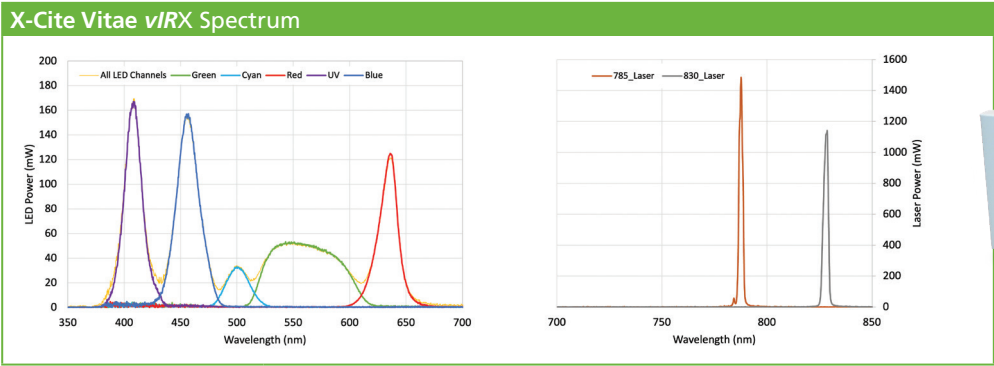

excelitas®



X-Cite Vitae™ vIRX

The X-Cite Vitae vIRX is a fully customizable, multi-wavelength illumination platform designed for high precision medical illumination and diagnostic applications such as endoscopy and surgical visualization, as well as high-speed analytical applications including multi-well plate and slide scanning and polymerase chain reaction (PCR). Featuring high optical output with support for up to 7 wavelengths including NIR, the Vitae vIRX easily replaces 180W or 300W Xenon sources while offering state of the art capabilities.

With enhanced control, accurate tuning, and exceptional optical stability achieved via integrated feedback sensors, the X-Cite Vitae vIRX will match any CCT and power with accuracy while maintaining optical output over lifetime. Designed to enable streamlined OEM integration, the Vitae vIRX can be tailored to meet the needs of each application and customer whether it be custom optics, control systems, or modification of form factor.



TECHNICAL SPECIFICATIONS • X-Cite Vitae vIRX	
Output	Four way universal turret accepting Storz, Wolf, ACMI and Olympus ferrules. Customized optical couplings also available.
Wavelengths	Fully customizable upon request. Support for 7 individually controllable channels. Default configuration as follows: • UV – 405 nm • Blue – 455 nm • Cyan – 500 nm • Green (broadband) – 530 – 590 nm • Red – 630 nm • R1 – 785 nm • IR2 – 830 nm
Minimum Pulse Width	10 μs
Control Options	Manual on/off and intensity control – 1% increments for each color; USB, TTL
I/O Connectivity	TTL – input for on/off control: 24V – 5V TTL compatibility Ethernet, USB, SD card slot
Color Temperature (CCT)	Fully tunable and accurate CCT for RGB white configuration
Color Rendering Index (CRI)	Spectral shaping for high CRI
Closed Loop Feedback	Integrated sensors for output monitoring and stability
Input Voltage	24VDC; 28A
System Dimensions	14.25" x 6" x 11.75" (W x H x D)

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



www.excelitas.com
x-cite@excelitas.com

2260 Argentia Road
Mississauga, Ontario
L5N 6H7 CANADA

Telephone: +1 905 821-2600
Toll Free (USA and CAN): +1 800 668-8752
Fax: +1 905 821-2055