VILLUMINATORTM Top Hat Illumination Modules

We offer a range of high performance and innovative flat top illumination modules for the most demanding optical illumination applications.



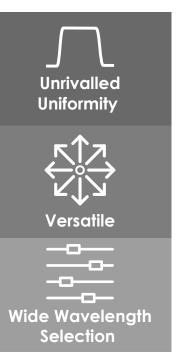




VIL100X

VIL121X / VIL151X

VIL350X



ABOUT OUR **PRODUCT**

Featuring our innovative patent-pending flat-fielding technology, by using LEDs as incoherent light sources, Villuminators™ flat top illumination modules are compact long-lasting luminaires with many choices of wavelengths that provide uniform top hat illumination, making them ideal for a variety of applications, including fluorescence imaging, machine vision, projection, display, and more.

Features

- Superior Top Hat Uniformity (>95%)
- Versatile to fit many applications
- Wide Selection of wavelengths
- · Long-lasting luminaires
- Customizable

- 151 -1				
Specifications	VIL100X	VIL120X	VIL151X	VIL350X⁵
Uniformity ¹	> 95%			
Flat Field Beam Diameter ²	Øllmm	Ø13mm	Ø21mm	Ø35mm
Typical Optical Power	Up to 240mW	Up to 140mW	Up to 240mW	Up to 6W
Working Distance ³	11mm	16mm	19mm	23mm
Weight	90g	140g	1 <i>5</i> 0g	580g
Dimension, mm	Ø40, Length 50	Ø40, Length 71	Ø40, Length 77	W97 x D81 x H106
Max Current/Voltage	1.5A / 4V			27A / 5V
Cooling	Passive Heatsink			Active Fan
Accessories	LED Driver (VLD0201)	Field Aperature atto LED Driver	LED Driver (VLD2501)	

^{1, 2, 3, 4} Refer to page 2 for more information

VBMB PTE LTD (V-BMB)



LinkedIn: www.linkedin.com/company/v-bmb/

⁵Currently only offered with white LED and not for microscopy applications

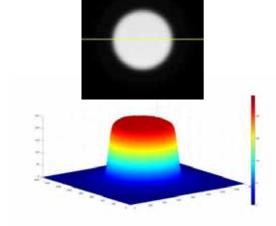
Precision Control Solutions Made Simple

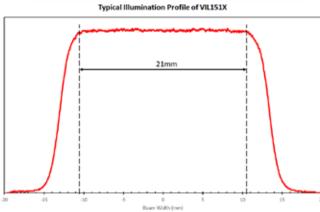
Part Number and Ordering Information



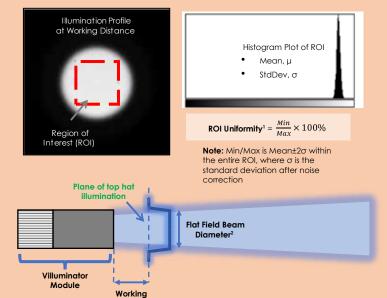
Only for VIL120X and VIL151X modules

Identifier	Wavelength/Color	Identifier	Wavelength/Color
Α	5700K (Cool White)	L	500 (Cyan)
В	4000K (Neutral White)	М	530 (Green)
С	2700K (Warm White)	N	554 (Lime)
D	365 (Ultra Violet)	0	590 (Amber)
E	385 (Ultra Violet)	Р	615 (Red-Orange)
F	395 (Violet)	Q	630 (Red)
G	425 (Violet)	R	660 (Deep Red)
Н	450 (Royal Blue)	S	730 (Far Red)
K	470 (Blue)	T	810 (Near-Infrared)

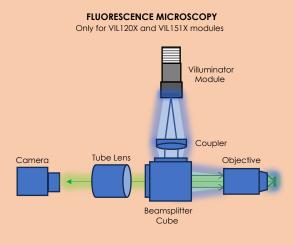




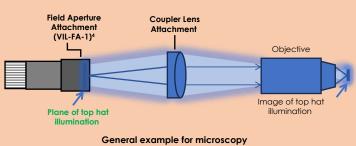




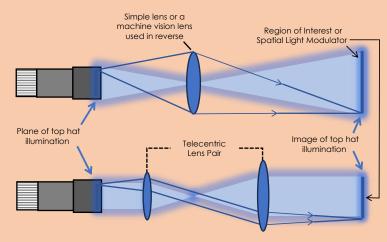
Applications



Accessories



GENERAL PROJECTION



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All product specifications are subject to change without notice. Last updated: AUG-2025
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