

LUMENCOR'S light engine portfolio



Model	PEKA light engine	SOLA light engine	ASTRA light engine
Key Markets	Clinical and Research	Clinical and Research	Clinical and Research
Applications	Transmitted Light Solid-State Lamp	Fluorescence Solid-State Lamp	Endoscopy and Surgical Lamp
Illuminator Use	Simple, cool lamp alternative for transmitted light	Manual or automated white light solid-state fluorescence illuminator	Automated control of discrete colors or white light with simultaneous outputs
Light Sources	White (RGB) light	White (broad spectrum) light	Four sources throughout the VIS and optional high power NIR
Control	Manual on/off TTL via BNC Manual ND selection Optional foot switch available	Single button on/off or Electronic on/off with intensity control	Serial and parallel control of colors and intensity
Spectral Range & Filters	Unfiltered white light, 410-680 nm Consistent color temperature with all optical power levels	Unfiltered white light, 380-680 nm	CRI and Color temperature control Unfiltered VIS Optional NIR
Speed of Operation	Manual on/off on/off rate > 100 Hz	SOLA SM manual on/off SOLA SE on/off rate > 100Hz	on/off rate ~500 Hz
Optical Coupler	Direct coupling to scope Vibrationless No fan	3 mm dia liquid light guide couplers	Liquid light guide and optical fiber bundles Customization upon request
Size (WxLxH), Weight	9x10x13 cm3, 2.0 kg	12.5x16x26 cm3, 3.6 kg	9x30x20 cm3, 7.5 kg
Warranty, Optional extensions available	18 Months (parts and labor) for end users	12 Months (parts and labor) for end users	18 Months (parts and labor) for OEM
Lifetime	20,000 hours to reach 70% initial power specification	20,000 hours to reach 70% initial power specification	15,000 hours to reach 70% initial power specification
Certifications	REACH, RoHS, CE, TUV Mercury-Free	REACH, RoHS, CE, TUV Mercury-Free	REACH, RoHS, CE, TUV Mercury-Free
Suggested List Price	~ \$2,500 USD	~ \$5,000 USD for manual version ~ \$7,500 USD for electronic version	~ \$16,000 USD (white light only)



Model	MIRA light engine	AURA & SPECTRA light engines	CUSTOMIZED light engine
Key Markets	Clinical and Research	Clinical and Research	Clinical, Research and Industrial
Applications	Fluorescence Illumination Solid-State Lamp	Live and Fixed Cell Imaging, Microscope Illuminator	User Specified Applications
Illuminator Use	Simple, cool lamp alternative for routine clinical microscopy	Automated control of TUNABLE discrete colors or white light with simultaneous outputs	Automated or manual control of tailored outputs for specific application
Light Sources	Four sources throughout the UV and VIS and white light	As many as six sources throughout the UV, VIS and NIR and white light	Colored with UV, VIS and NIR customizations and white light
Control	Manual on/off & color selection ND selection TTL via BNC Optional touchscreen tablet	Serial and parallel control of colors and intensity	Serial and parallel control of colors and intensity
Spectral Range & Filters	Unfiltered UV, cyan, green, red and white light	Numerous UV, VIS, NIR options Option for replaceable filters Customizations upon request	CRI and Color temperature Control Independent color control Customized UV VIS NIR
Speed of Operation	Manual on/off on/off rate > 100 Hz	On/off rate ~5000 Hz	Custom
Optical Coupler	Direct coupling to scope Vibrationless No fan	Liquid light guide and optical fiber couplers	Liquid light guide and optical fiber bundle Customization upon request
Size (WxLxH), Weight	9x10x13 cm ³ , 2.0 kg	28x19x11 cm ³ , 3.6 kg	Custom
Warranty, Optional extensions available	18 Months (parts and labor) for end users	36 Months (parts and labor) for end users	18 Months (parts and labor) for OEM
Lifetime	20,000 hours to reach 70% initial power specification	20,000 hours to reach 70% initial power specification	TBD
Certifications	REACH, RoHS, CE, TUV Mercury-Free	REACH, RoHS, CE, TUV Mercury-Free	REACH, RoHS, CE, TUV Mercury-Free
Suggested List Price	~ \$3,700 USD	~ \$6,000 - \$16,000 USD	~ TBD



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