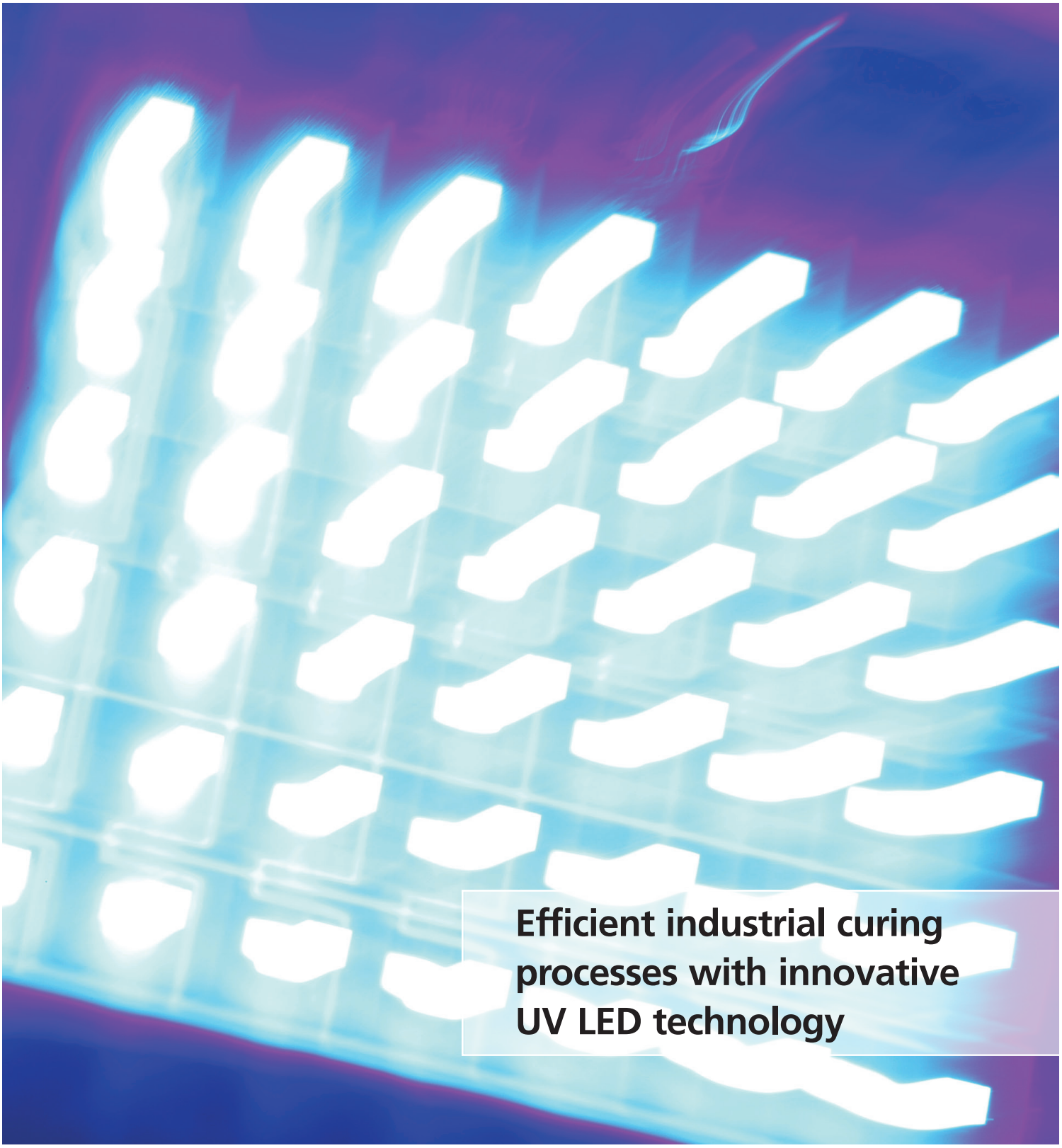


Efficient industrial curing processes with innovative UV LED technology

NobleLight

EXCELITAS TECHNOLOGIES®

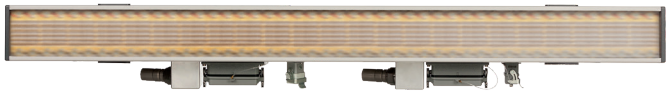
UV LED portfolio

Various solutions from water- to air-cooled systems of different intensities, power classes and lamp head sizes to fit any industrial application.

UV LED is the industrial standard for curing and drying processes, due to its efficiency and energy-saving potential. Excelitas offers UV LED curing solutions and customer specific UV LED curing systems tailored to the application. Users can choose between water- or air-cooled UV LED curing systems depending on their process and production needs. While water cooling offers high power solutions in challenging industrial environments, air cooling offers easy and fast integration.

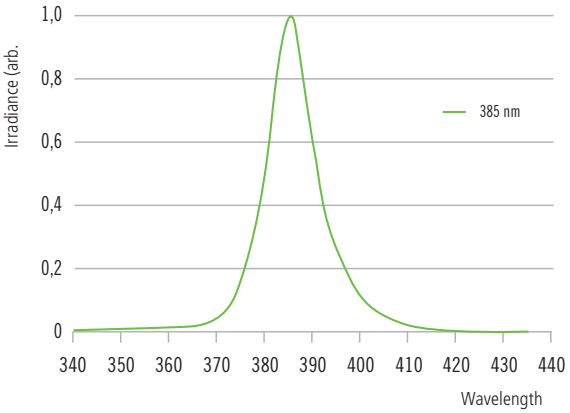
Semray® UV5000+ Series

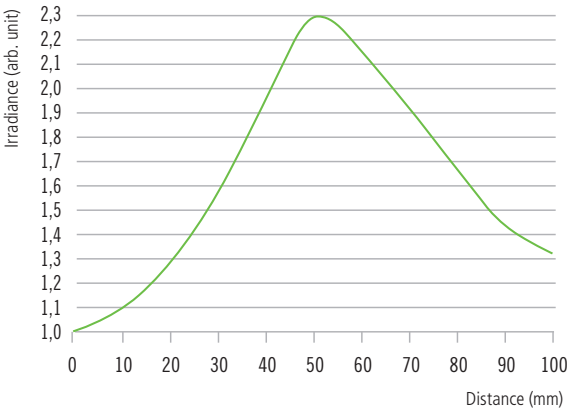
Semray® UV5000+ is designed for a higher performance and flexible integration especially for larger working distances. The Semray® UV5000+ Series is a Water-cooled system.

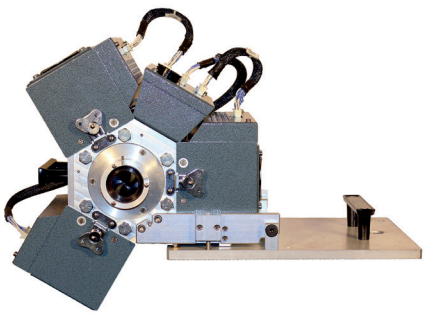


Series	UV5000+
Peak wavelength [nm]	385
Irradiation intensity [W/cm^2] *	6,5
Irradiation intensity at 50 mm working distance	16
Emission window size [mm] **	X × 82
Outer dimensions of housing [mm] ***	X (W) × 100 (D) × 100 (H)

* At emission window.** Emission window size scalable in width from 400 to 1300 mm in 50 mm steps.
*** Outer dimensions of housing scalable in width from 415 to 1315 mm in 50 mm steps.







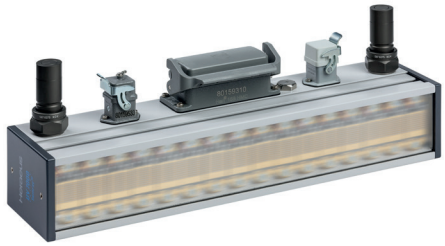
Semray® UV PC6003

Semray® UV PC6003, a UV LED curing system designed from the ground up for optical fiber draw and wire marking manufacturing processes for a 360° curing coverage.

Model	UV PC6003 UV LED Lamp Assembly
Wavelength [nm]	395
Irradiance at Target [W/cm^2]	65 – 70
Emission length [mm]	165
Maximum Dimensions [mm]	364 (W) × 265 (H) × 543 (L)

Customized UV LED solutions

Customer-specific developments are our strength. Talk to our UV LED experts if our standard versions do not fit your requirements. Together with you we will develop your special solution. For example, we have developed the Semray® UV5000M, which is equipped with special optics to bring more energy to your process. Please reach out to our global contacts for further discussion.



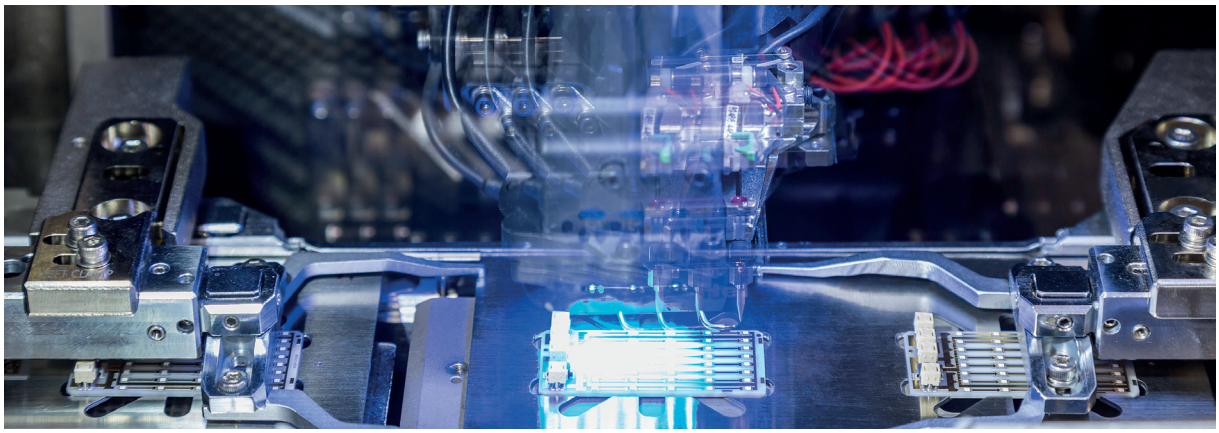
Model	UV5052M			
Peak wavelength [nm]	365	385	395	405
Irradiation intensity [W/cm²] *	15	17	20	19
Emission window size [mm]	1300 × 84			
Outer dimensions of housing [mm]	1316 (W) × 100 (D) × 100 (H)			

* At emission window.

The basis for customized developments are standard products that are flexibly designed:
- flexible in sizes and lengths, depending on machine width
- flexible in connections for peripheral devices
- flexible in optical concepts for different applications and working distances

Simply more performance.

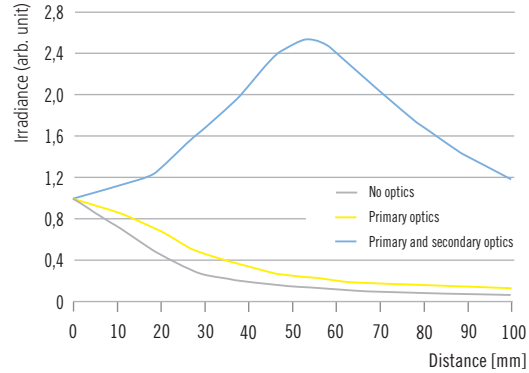
Dedicated optics for high intensity even at large working distances.

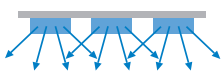


Excellent manufacturing infrastructure for high performance UV-LED solutions.

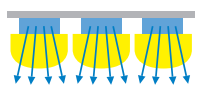
A set of unique optical concepts direct the photons leaving the UV-LED chips to larger working distances for more:

- flexibility in applications
- minimum loss of energy and straylight
- focused UV intensity

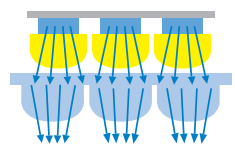




No additional optics



Additional primary micro lenses



Primary micro lenses and secondary optics

Primary micro lenses
Secondary optics

About Excelitas Technologies

Excelitas is a leading provider of advanced, life-enriching technologies that make a difference, serving global market leaders in the life sciences, advanced industrial, next-generation semiconductor, aerospace and defense end markets. Headquartered in Pittsburgh, PA, USA, Excelitas is an essential partner in the design, development and manufacture of photonic technologies, offering leading-edge innovation in sensing, detection, imaging, optics, and specialty illumination for customers worldwide. Excelitas is at the forefront of addressing many of the relevant megatrends impacting the world today, including precision medicine, industrial automation, artificial intelligence, connected devices (IoT) and military modernization.

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