

**ssr engineering gmbh**

## UV systems **ssr evo 7** - series

- ssr evo **VII**
- ssr evo **207**
- ssr evo **307**
- ssr evo **407**

coating / finishing  
surface treatment  
bonding / needle bonding  
IMD high quality UV curing  
sterilization

**ssr engineering** is one of the worldwide leading companies in innovative, high performance and reliable special UV systems. Due to our long years of experience, especially in high-tech applications, our UV systems meet all expectations in processing and quality.

ssr engineering **evo 7 – series** UV systems are designed for virtually all different kind of industrial applications.

## Professional high performance UV systems

The **Selective Lambda Technology** offers a very pure process radiation in the **UV** and **UV-Vis** spectral area and thus providing a curing process with minimal thermal stress. As a result, the effective UV dose can be increased up to **500%** before reaching the critical temperature of the substrate.

The consistent implementation of a **compact design** makes it the ideal UV system for integration in new and existing line equipment.

An homogeneity of **± 3%** in the exposure area allows static radiation processes with hitherto unknown precision.

The UV system **ssr evo VII** was specifically designed for the requirements of the optical storage media industry.

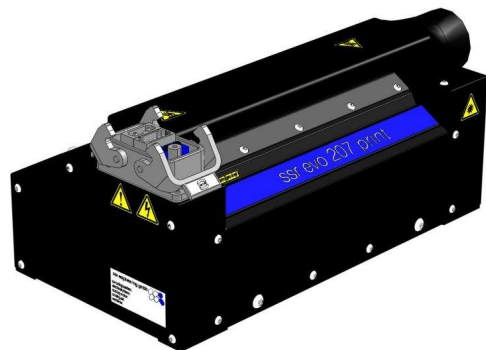
The evo VII is ideal for the production of high-quality HD formats such as Blu-Ray discs (BD). The consistent implementation of the compact design makes it **the** retro-fit system for all types of existing production facilities from CD- to the Blu-Ray-lines.



ssr evo VII

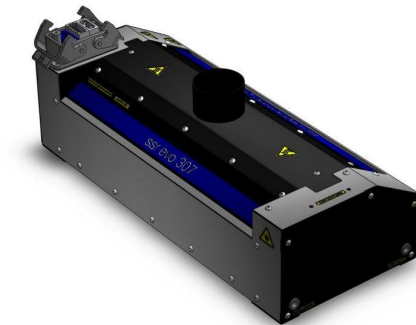
The UV system **ssr evo 207** was specifically designed for the requirements of the plastic and electronic industry. The evo 207 is used for curing of clear and protective lacquers such as curing of screen printing inks.

The evo 207 is ideal for the production of high-quality and sensitive products like IMD foils, scratch resist coatings and SMD components. The evo 207 is also available as "**evo 207 print**" version.



ssr evo 207 print

The UV system **ssr evo 307** was specifically designed for the requirements of the plastic and electronic industry. The evo 307 is used for curing of clear and protective lacquers such as curing of screen printing inks. The evo 307 ideal for the production of high-quality and sensitive products like IMD foils, scratch resist coatings and SMD components. The evo 307 is also available as "**evo 307 print**" version.



ssr evo 307

The UV system **ssr evo 407 print** was specifically designed for the requirements of the graphical industry. The evo 407 print is used for curing of clear and protective lacquers such as curing of screen printing and other inks. The evo 407 print is ideal for the production of high-quality and sensitive products.



ssr evo 407 print

### technical data

	ssr evo VII	ssr evo 207	ssr evo 307	ssr evo 407
radiation width	150 mm	200 mm	300 mm	400 mm
exposure area	150 x 150 mm <sup>2</sup>	200 x 150 mm <sup>2</sup>	300 x 150 mm <sup>2</sup>	400 x 150 mm <sup>2</sup>
specific electrical power [W/cm]	<b>400</b> spec. P	<b>300</b> spec. P	<b>270</b> spec. P	<b>200</b> spec. P
measures [mm]	325 x 200 x 160	375 x 200 x 160	475 x 200 x 160	575 x 200 x 160
weight	7 kg	9 kg	12 kg	15 kg
cooling air	100 m <sup>3</sup> /h	120 m <sup>3</sup> /h	150 m <sup>3</sup> /h	200 m <sup>3</sup> /h
pressure drop	200 – 400 Pa	300 – 700 Pa	400 – 900 Pa	ca. 1200 Pa
exhaust connect	Ø 60 mm	Ø 60 mm	Ø 60 mm	Ø 60 mm
cooling water	2 l/min	2 l/min	3 l/min	3 l/min
optical features				
general features				
integration features				

## Product features:



**pure UV:** the new optical design provides up to 100 % indirect process radiation – enabling a remarkable precise process light, adjustable to any requirement



**cool UV:** the innovative ssr "Selective Lambda Technology" provides an ultra cool process light, reducing the substrate temperatures by up to 70 %



**shutter system:** the dynamic pneumatically driven shutter system enables precise process control with a shutter time of about 0.15 sec



**easy lamp change:** the new developed lamp support needs no extra tool for mounting the lamp and ensures a totally stress free positioning of the UV lamp



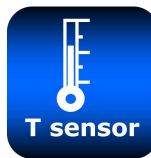
**static exposure:** a homogeneity of up to  $\pm 3$  % within the exposure area ensures high precision at static and discontinuous exposure processes



**high speed exposure:** high UV intensity and optimised radiation characteristics ensure best in class high speed curing performance



**cooling air sensor:** an integrated cooling air sensor ensures ideal cooling conditions for lamp and reflectors



**temperature sensor:** the integrated temperature safety switch avoids overheating of the UV system



**top air exhaust:** this air exhaust option provides compact integration requirements and low pressure drop, reducing blower size



**"print" air exhaust:** this air exhaust option provides a full rear side cooling media supply and reduces the total height of the integration



**ssr Hg-lamp type:** this lamp type is used for coating, thin film and sterilization applications, providing high **UV-C** power and further reduced heat load



**ssr D-lamp type:** this "doped" lamp type provides outstanding **UV-A** intensity for all bonding and printing application requiring deep penetration



**ssr Ga-lamp type:** this lamp type provides ultra high intensity in **UV-Vis** area, providing deep penetration for thick film lacquering



**specific power:** value of specific electrical operation power [**W/cm**] – in combination with suitable ssr UV lamp and ssr power supply unit



**direct radiation:** all ssr evo 7 series UV systems are available as "dr" version, providing unique process properties for all high speed applications



**ssr compatible solution:** easy retrofitting to replace BK - UV systems due to plug`n`play interface concept – no need of any software modifications

## Technology Made in Germany!

