

Innovation of UV technology



COMPANY PROFILE

IUV is a global leader in the development and manufacturing of advanced LED UV curing systems tailored for the printing, coating, and converting industries.

With a focus on innovation, efficiency, and sustainability, we provide cutting-edge solutions that enhance productivity and reduce energy consumption. Our systems are designed to seamlessly retrofit existing press, offering businesses a cost-effective path to modernization. Trusted by industry leaders worldwide, IUV is committed to delivering high-performance technology and exceptional customer support to meet the evolving demands of our clients.

IUV support 24/7 online after-sales service, and built a network of 15 global agents and distributors. Our localized technical service teams, combined with strategically located spare parts warehouses, ensure that your IUV equipment is always supported and maintained.

No matter where you are, we're committed to delivering timely, reliable service to keep your operations running smoothly. Your equipment's performance and longevity are our top priority.

50000+

20+ Countries 80+ Partners







Driven by Your Success, Powered by Our Innovation



Advanced LED UV

Curing System



Energy-Efficient Savings in electrical energy can exceed 70%



Lower Maintenance Longer lifespan and stable working, less consumable parts



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Production Efficiency

Instant On/Off without any waiting time, higher curing speeds



Eco-friendly

Ozone-free operation makes eco-friendly and human health

Specification

UV Energy

Lighting Length

Peak Wavelength

Cooling Method

Expected Lifetime

Working Temperature

18w/cm²、25w/cm²、30w/cm²

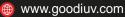
10 - 200cm

365nm / 385nm / 395nm

Water Cooling

>30000 Hours

Below 40°C

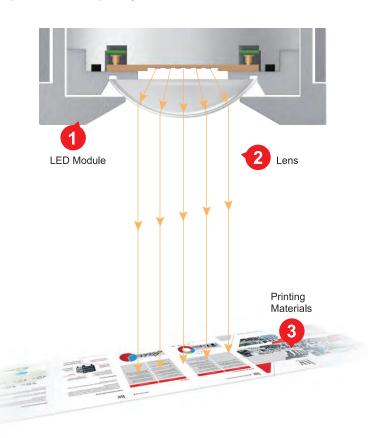


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About IUV's Innovation of LED

IUV LED UV light box utilizes design of a precision optically designed quartz lens and aluminum nitride ceramic layer both plays a critical role in achieving high quality, efficient and reliable curing performance at printing industry.

It is able to meet the stringent requirements for UV high energy curing performance. The optically designed quartz lens improves LED UV curing performance and speed by more than 20%.



Applicable Applications:

Printing Industry

Digital, flexographic, screen and offset printing benefit from fast curing, resulting in increased production speeds, printing equipment effectiveness and higher quality finished prints on various types of materials.

Coating Industry

UV LED curing systems can be used for a wide range of functional and aesthetic coatings, guaranteeing both fast drying and reduced energy consumption to empower clients 'business demands.

Converting Industry

Laminating, adhesive applications and other processes utilize UV LED technology to improve curing efficiency and cost-effective quality.



Maximum Savings On Printing

IUV LED UV systems can save you 70% on electricity costs and 80% on after-sales maintenance. And the client won't have to deal with the high cost of replacement parts.

High Productivity On Process



IUV LED UV systems offer instant On/Off capabilities, eliminating the need for warm-up and cooling periods. Moreover, the whole curing system is automated and software-controlled, dynamically adjusting energy output and operation based on the printing machine's status and speed in real time.

Sustainability On Print Development



Embracing environmental health, LED lighting's low-energy consumption significantly reduces greenhouse gas emissions and is free from harmful substances like mercury and lead, minimizing environmental impact.



Environmentally Friendly

UV LED do not contain mercury or other harmful substances and do not produce ozone, making them a safer and more sustainable choice.



Less Input On Maintenance

LED UV lamps offer over 30 times the lifespan of traditional mercury lamps, with minimal light degradation and no loss in efficiency from frequent On/Off, ensuring low maintenance costs and reliable performance.



IUV Conventional Mercury UV

Curing System





Electric Shutter Control High torque and soft action, low sound will be more stability work



Air Duct Design of Cooling Excellent heat dissipation improves the efficiency of curing

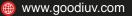


Mirror Aluminum Reflector Effective light reflection up to 98%



Flat Quartz Glass To ensure the UV light is evenly distributed across the material

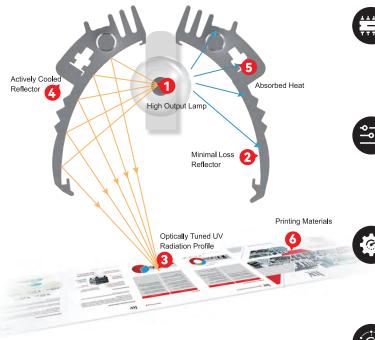
SpecificationIrradiance At Window160 ~ 220w/cmLighting Length20 - 200cmOptimum Curing Distance10 ~ 20mmCooling MethodAir CoolingExpected Lifetime>1000 Hours



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About Mercury UV

Whether for printing, coating, adhesive bonding, or any other application, IUV's mercury lamp curing systems provide outstanding curing performance across a wide variety of substrates and materials.



Quartz Glass Protection

IUV's mercury UV built with durable structures and reliable components. They deliver long-lasting performance and ensure consistent, dependable operation over time.

Smoothly Controlled Shutter

Equipped with an electrically controlled shutter that operates with high torque, delivering smooth, gentle movement with minimal noise.

In order to keep stable and reliable operation, reducing the frequency of part replacements and enhancing the system's longevity.

Highly Efficient Reflector

Mirror aluminum reflectors effectively reflect up to 98% of the light source.

Lower replacement costs, offering a more cost-effective solution while maintaining high energy efficiency.

Optimized Heat Dissipation



Feature an advanced airflow design that effectively expels heat from the lamp housing. To insure optimal operating conditions are maintained for good-balanced curing performance.

MATURE SUPPLY CHAIN SYSTEM

IUV's curing systems are highly adaptable to a wide range of inks and materials, demands of print goods.

ROBUST CONSTRUCTION

IUV's mercury UV built with durable structures and reliable components. They deliver long-lasting performance and ensure consistent, dependable operation over time.

Remote Monitoring Function

WIDELY RECOGNIZED PERFORMANCE

experience and customer feedback.

INTELLIGENT OPERATING SOFTWARE

IUV's mercury lamp UV curing system technology is

well-established, having been validated by years of market

IUV's software simplifies equipment upgrades, streamlines

workflows, offering a user-friendly experience for operators.

In order to ensure the stable operation of global IUV customer equipment, timely troubleshooting, remote OTA software upgrades and other future digital management needs. IUV has independently developed a complete remote-local data link management system.

This system allows IUV equipment around the world to connect to the cloud server through network cables, WIFI and other Internet access methods, and can easily realize remote real-time information collection, fault diagnosis, software updates and other functions through PC or mobile phone.

Brinter quickly diagnose and solve system failures to ensure efficient production for customers. And IUV's software the other hand, it also provides real-time data for the digital management of customer print line.



Mercury & LED UV

Hybrid System





Free Replacement

Mercury, halogen, and LED lamp boxes can be freely inserted and removed



Compatibility

Complementary adaptability to printing curing process requirements



Efficient And Environmentally Friendly

Maintain efficient, eco-friendly water cooling for LED lamp box



Cost Savings

Reduce operating cost, and improve the production efficiency

Specification ARC	
Irradiance At Window	160 ~ 220w/cm
Lighting Length	20 - 200cm
Optimum Curing Distance	10 ~20mm
Cooling Method	Air Cooling
Expected Lifetime	>1000 Hours

Specification LED		
UV Energy	18w/cm ² 、25w/cm ² 、30w/cm ²	
Lighting Length	10 - 200cm	
Peak Wavelength	365nm / 385nm / 395nm	
Cooling Method	Water Cooling	
Expected Lifetime	>30000 Hours	
Working Temperature	e Below 40°C	

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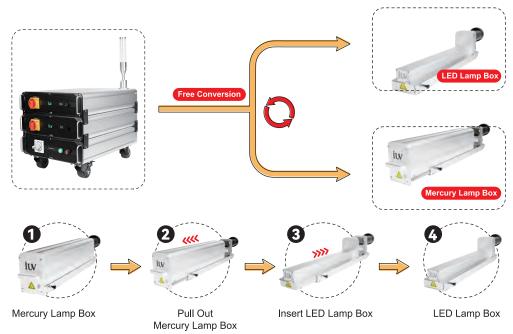
LED Lamp Box And Mercury Lamp Box Can Interchange Freely

Press operators in the two kinds of light boxes can be freely plugged and unplugged, the system automatically recognizes without manual intervention.

In the same cassing can realize the use of the same power supply input, supporting both air-cooled and water-cooled options.

Not only can it meet the various needs of customers for curing, improve production efficiency, but also minimize energy consumption and thus reduce production costs.

Moreover, the installation of Hybrid UV curing system on the printing machine can enable the printing machine to realize diversified printing order production requirements.



How Is The UV Hybrid System Working

One module of the IUV power supply contains two software algorithms that automatically switch power modes depending on the load.

It can power both mercury and LED lamps.

This flexibility allows for compatibility with a wide range of inks and materials, as well as complex production process requirements.

A key feature of IUV technology is the high degree of precision power adjustability, ranging from 1% to 100%.

The purpose of this technology is to allow the system to automatically adjust the power output according to the printing speed, ensuring that the performance of the UV curing system can meet the needs of an ever-evolving printing production.



Why You Need Mercury And LED Exchanging System



Flexibility

Mercury and LED curing system offers fexibility in switching between UV lamps. This adapts to diverse curing needs, materials, and ink types, optimizing efectiveness with suitable technology.

Compatibility



Varing ink types among printing groups demand specific curing systems.

The hybrid UV system facilitates easy switching, adapting to diverse printing and ink requirements.

Cost Savings



Flexibility of hybrid UV curing system saves costs by optimizing the process and using the most efficient tech. LED UV lamps offer a longer lifespan, reducing maintenance and replacement costs.

Seamless Production Switching



Effcient lamp replacement without compromising work efficient ensures smooth transitions in production. The system automatically identified lamp type, eliminating manual settings and minimizing downtime.

Innovative Modular Power

Supply System





İW

Real-time Monitoring Real-time monitoring, data upload,

superior control



Long-term Stability Unique constant current and

voltage technology, long-term stable power control



Prolong Lifespan Constant current control, doubled life

Management Improve

Intelligent all-in-one control, make printing management easier than ever

Specification

Rated Voltage

Maximum Power

Maximum Current

Power Efficiency

Power Factor

Dimensions of Main Power

Dimensions of Lamp Box Modular

360 ~ 410VAC, 3-phase, 50 / 60Hz

84KW (Max Power Acceptable Customized)

128A (Max Current Acceptable Customized)

94%

98%

725mm (L) x 485mm (W) x 235mm (H)

725mm (L) x 485mm (W) x 135mm (H)



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Key Highlights of the IUV Modular Power Supply System

IUV impressively discovered that the stability and intelligence of UV curing systems are critical for enhancing production efficiency in the printing industry.

Our solutions ensure that UV curing systems not only meet the demands of today's high-speed production environments but also contribute to the long-term success and sustainability of the printing process.

These include constant voltage and constant current control, automatic adjustment of the light-emitting area based on material detection, integrated intelligent independent control, automatic monitoring and diagnostics, and cloud-based remote upgrade systems.

All of these innovations are focused on improving the stability, intelligence, and overall performance of curing systems.

Easy To Expand

One of the core design principles behind this system is to ensure that it can be quickly and efficiently maintained or upgraded, without the need for specialized knowledge, minimizing downtime and reducing operational stress for customers.

This is a truly empowering action and product for our customers.



• UZ Remove the working layer — this layer is located

above the faulty layer.

Disconnect the faulty layer and replace it with

a new working layer.





a total of 8 screws
need to be undone.



Modular Design

Various types of power supply modules, including ARE, pre-cue LED and LED.

This flexibility makes it easy to expand and reconfigure the system to accommodate changing production requirements, ensuring that your system evolves with your business growth.

Intelligent Connectivity for Effortless Expansion

The system utilizes a CAN connection for all key components, including the HMI, mercury power modules, LED power modules, pre-curing LED modules, water chillers, and lamp box. This intelligent connectivity simplifies expansion and maintenance, allowing new modules or components to be seamlessly integrated into the system with minimal effort.

Real-Time Monitoring and Diagnostics

The IUV modular power system provides real-time remote monitoring and diagnostic capabilities, enabling the early detection of potential issues and offering proactive maintenance alerts. This ensures continuous operation while reducing the risk of unexpected downtime through timely interventions.

Integrated Independent Control

Each kind of power module is equipped with its own central processing unit (CPU), making each unit an independent control unit. These modules can be easily interchanged — by simply updating the communication address, one module can be quickly replaced with another.

Attractive and High-tech Design

With a high-tech appearance and user-friendly features, the system not only looks impressive but is also space-efficient. This compact design allows customers to make better use of the available factory floor area, ultimately contributing to higher operational productivity.



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