

PACU Series UV Laser Marking Machine



The PACU Series represents the next generation of UV laser marking technology, combining precision, intelligence, and efficiency in a single integrated system. Designed for modern production environments, this advanced marking solution delivers exceptional performance across a wide range of materials and industries. With power options of 3W, 5W, and 10W, the PACU Series utilizes ultraviolet solid-state lasers operating at 355nm wavelength to create permanent, high-quality marks on everything from plastic bottles to glass containers.

Built on a Linux operating system and powered by Star Dance laser marking software, the machine offers comprehensive marking capabilities including text, time stamps, counters, random codes, logos, barcodes, QR codes, and images. The system supports multiple languages including English, Russian, Korean, Thai, and German, with customizable local language options. With versatile connectivity through RS232, USB, and Network Port interfaces, plus NPN/PNP/12V sensor compatibility, the PACU Series integrates seamlessly into existing production lines. The compact design features a laser machine component weighing just 18kg and a flight stand component at 30kg, making installation and repositioning straightforward.



Simple

10-inch touch editing WYSIWYG interface for intuitive operation and real-time preview



Intelligent

Smart Rich IO interface realizes intelligent production line control and automation



Stable

Highly integrated modular design for easier installation and maintenance procedures



Efficient

Built-in speed self-test system for easy productivity evaluation and optimization

Technical Specifications & Applications

Technical Specifications

Model	PACU3/5/10
Laser Power	3W / 5W / 10W
Laser Type	Ultraviolet solid-state lasers
Wavelength	355nm
Cooling Method	Water cooling
Operating System	Linux
Power Requirements	Single phase, 100-110V / 220-240V, 50/60Hz, <600W
Machine Weight	Laser: 18kg, Flight stand: 30kg

Marking Capabilities

- Text and time stamps
- Counters and random codes
- Logos and branding
- Barcodes and QR codes
- Custom images

Industries

Pipe, food, beverage, medicine, cosmetics, and more

Material Applications

The PACU Series excels across diverse materials including PVC, HDPE, ABS, soft food packages, plastic caps, and glass. The 355nm UV wavelength provides exceptional marking quality on both light and dark surfaces, creating permanent marks without compromising material integrity. From pharmaceutical bottles requiring precise lot numbers and expiration dates to food packaging demanding clear traceability information, this versatile system handles complex marking requirements with ease.

HDPE Bottles

Clear, permanent marking on plastic bottles for pharmaceutical and cosmetic applications

Glass

High-contrast marking on glass surfaces for premium product identification

Plastic Bags

Precise marking on flexible packaging materials for food and consumer goods

For more information about the PACU Series UV Laser Marking Machine and how it can enhance your production capabilities, visit packtronic.co.za