

OMAJIC UV6090 UV Printer – User Manual (Simplified)

1. Machine Overview

The OMAJIC UV6090 is a UV-LED flatbed printer for printing on rigid and flexible materials. It supports a 600 × 900 mm print area, CMYK + White + Varnish inks, and materials up to 130 mm thick. Ideal for personalized items, signage, and promotional products.

Key Features: - High-resolution printing up to 720 × 1800 dpi - 3 Epson I3200-U1 printheads - LED UV curing system - Compatible with Photoprint / RIP software - Prints on acrylic, glass, metal, wood, leather, phone cases

2. Safety Guidelines

- Always wear protective eyewear.
- Ensure proper ventilation to avoid UV fumes.
- Keep hands away from the printhead and moving parts.
- Do not operate without the LED curing system functional.
- Emergency stop must be accessible at all times.
- Avoid touching wet ink surfaces until cured.

3. Installation & Setup

1. Place the printer on a flat, stable surface.
2. Connect AC 220V power supply.
3. Connect the printer to a computer via USB/LAN.
4. Install Photoprint / RIP software on Windows 7/8/10.
5. Fill ink tanks (CMYK + White + Varnish) and prime printheads.
6. Level the print bed and ensure no obstruction in the movement area.

4. Basic Operation

1. Power On the machine.
2. Home all axes using the software interface.
3. Load media onto the print bed, secure it properly.
4. Load print file (DXF/DWG/JPG/PNG) in the software.
5. Set printing parameters: ink type, coverage, print resolution, curing mode.
6. Run a test print to verify alignment and quality.
7. Start the full print job.
8. Monitor operation for smooth ink flow and UV curing.
9. Once finished, remove printed media carefully.

5. Maintenance

- Clean printheads and nozzles regularly.
- Check and refill ink tanks as needed.
- Clean the flatbed and surrounding areas to avoid debris.
- Inspect LED UV curing lamps periodically.
- Lubricate moving rails and ensure smooth motion.
- Update software and firmware as recommended.

6. Troubleshooting

Issue	Possible Cause	Solution
Missing lines in print	Clogged nozzle	Clean printheads
Blurry print	Incorrect resolution	Check DPI settings
Ink not curing	UV lamp off or weak	Check LED curing system
Paper/media not feeding	Obstruction or uneven bed	Level bed and clear obstruction

7. Operational Area

- Printing on rigid and flexible substrates
- Materials: Acrylic, glass, metal, wood, leather, phone cases
- Applications: Personalized items, signage, promotional products