

Lancelot L1800-W DTF Printer

Lancelot A3 L1800 DTF Printer Instruction Manual

MODEL: L1800-W DTF PRINTER

Direct-to-Film Transfer Machine with Roll Feeder and White Ink Circulation

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1. INTRODUCTION TO THE LANCELOT A3 L1800 DTF PRINTER

The Lancelot A3 L1800 DTF Printer is a versatile direct-to-film transfer machine designed for creating vibrant and durable designs on various fabrics. This printer offers advanced features such as a roll feeder, white ink circulation, and an integrated computer for seamless operation. It is suitable for both light and dark clothing, expanding your creative possibilities.

Key Features:

- **DTF vs. DTG Printing:** Unlike Direct-to-Garment (DTG) printers, DTF printing requires no pre-treatment and offers superior durability. DTF printers transfer designs via special films and can print on a wider range of materials, including synthetics like cotton, silk, polyester, and rayon. They typically produce brighter colors on dark fabrics.
- **Advanced White Ink System:** Equipped with an imported filter that effectively intercepts impurities while allowing pigment dyes to pass through, ensuring ink purity and longer filter lifespan. The system includes white ink circulation and stirring to prevent settling and maintain consistent ink flow.
- **Superior Print Quality:** Utilizes the A3 L1800 print head to guarantee high-resolution prints (up to 5760 dpi for black and white, 4800 x 1200 dpi for color) with vibrant and long-lasting designs.

- **Wide Application:** Ideal for T-shirts, canvas tote bags, hoodies, hats, pillow covers, and other fabric items, suitable for both light and dark materials.
- **Highly Compatible DTF Computer:** The package includes a dedicated DTF computer pre-installed with necessary drivers and software, ensuring stable data transmission and continuous, efficient printing.



Figure 1: Lancelot A3 L1800 DTF Printer with Roll Feeder. This image displays the complete Lancelot A3 L1800 DTF Printer setup, highlighting its compact design and integrated roll feeder system.

2. SETUP GUIDE

Follow these steps to set up your Lancelot A3 L1800 DTF Printer for the first time.

2.1 Unpacking and Placement

- Carefully unpack all components from the packaging.
- Place the printer on a stable, level surface with adequate space for operation and maintenance.

- Ensure proper ventilation around the printer.

2.2 Roll Film Installation

The printer supports both sheet film and roll film. For continuous printing, install the roll film as follows:

- Locate the roll feeder mechanism at the rear of the printer.
- Carefully load the DTF film roll onto the feeder spindles, ensuring it is aligned correctly.
- Thread the film through the printer's feed path as indicated in the quick start guide.

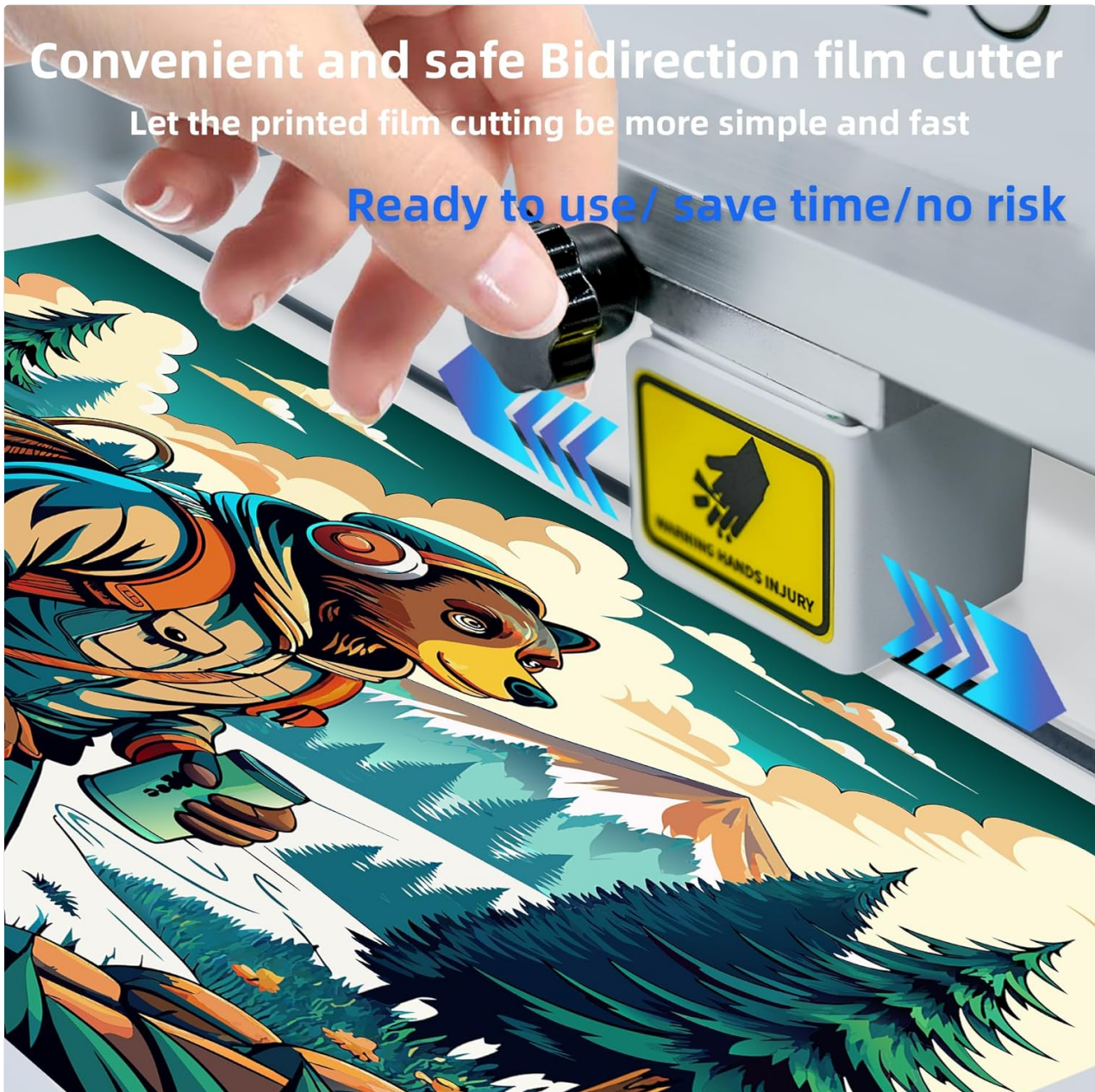


Figure 2: Roll Film Feeder. This image shows the integrated roll film feeder, allowing for continuous printing without frequent media changes.

2.3 Ink Filling

Fill the ink tanks with the provided DTF inks. Shake white ink bottles thoroughly before filling.

- Open the ink tank covers.
- Carefully pour the corresponding colored inks (CMYK) and white inks into their respective tanks.
- Close the ink tank covers securely.

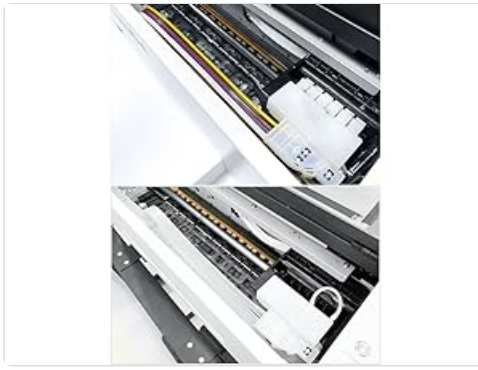


Figure 3: Ink Tank System. This image illustrates the printer's ink tank system, designed for easy refilling of CMYK and white DTF inks.

2.4 Computer and Software Setup

The included DTF computer comes pre-installed with all necessary drivers and Colorboxrip software. Simply connect the computer to the printer via USB.

- Connect the printer to the dedicated DTF computer using the provided USB cable.
- Power on both the computer and the printer.
- The system should automatically recognize the printer.



Figure 4: DTF Laptop System. This image highlights the dedicated DTF laptop, pre-configured with software for immediate use with the printer.

3. OPERATING INSTRUCTIONS

This section outlines the general workflow for creating DTF transfers.

3.1 Design and Printing

- Use the pre-installed Colorboxrip software on the DTF computer to prepare your design.
- Ensure your design is mirrored before printing.
- Select the appropriate print settings (resolution, color profile) within the software.
- Initiate the print job. The printer will print the mirrored design onto the DTF film, first with color, then with a white ink layer.

Product highlights for the Lancelot A3 L1800 DTF printer set



Figure 5: DTF Printing Workflow. This diagram illustrates the six-step process from computer design to finished product, emphasizing ease of use.

3.2 Powder Application and Curing

- Immediately after printing, apply DTF powder adhesive evenly onto the wet ink on the film.
- Gently shake off any excess powder.
- Place the powdered film into a curing oven or dryer to melt the adhesive. This step usually requires a temperature of about 160-180°C (320-356°F) for 60 seconds.

3.3 Heat Pressing

- Preheat your heat press machine to the required temperature (usually around 160-170°C or 320-340°F).
- Place the garment or substrate onto the heat press.
- Position the cured DTF film onto the garment in the desired location.
- Press for approximately 15-20 seconds with medium pressure.
- Allow the film to cool slightly, then peel off the film. The design should now be transferred onto the fabric.

3.4 Official Product Videos

Video 1: A3 M1630 Pro DTF Printer for T-shirt Printing. This video demonstrates the general operation and capabilities of a Lancelot DTF printer, including ink loading, printing, and transfer process.

Video 2: Printing Video A3 L1800 DTF PRINTER. This video specifically shows the Lancelot A3 L1800 DTF printer in action, demonstrating the printing process on film.

Video 3: Lancelot DTF printer. This video provides an overview of the Lancelot DTF printer, showcasing its features and ease of use in a practical setting.

4. MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your Lancelot DTF printer.

4.1 White Ink Circulation System

The printer features an automatic white ink circulation and stirring system to prevent pigment settling and nozzle clogging. Ensure this system is always active when the printer is on.

- Regularly check the white ink tanks to ensure proper stirring.
- Shake white ink bottles before refilling to maintain pigment consistency.



Figure 6: White Ink Circulation. This image illustrates the internal mechanism for circulating white ink, crucial for preventing pigment settling.

4.2 Automatic Cleaning

The printer is equipped with an automatic cleaning function to prevent nozzle clogs. Utilize this feature regularly, especially after periods of inactivity.

- Access the automatic cleaning function through the printer software on the DTF computer.
- Follow the on-screen prompts to initiate a cleaning cycle.



Figure 7: Automatic Cleaning. This image shows the automatic cleaning feature of the printer, which helps prevent nozzle clogs and maintains print quality.

4.3 Waste Ink Management

The printer has a waste ink bottle full alarm system. Monitor the waste ink levels and empty the bottle when prompted to prevent overflow and ensure safe operation.

4.4 Holiday Mode

For extended periods of inactivity, utilize the upgraded holiday mode. This feature is designed to prevent printhead clogging during downtime, ensuring the printer is ready for use when you return.

5. TROUBLESHOOTING

This section provides solutions for common issues. For complex problems, refer to the technical support

section.

5.1 Common Issues and Solutions:

- **Nozzle Clogging:** If print quality is poor or lines are missing, perform an automatic cleaning cycle. Ensure white ink circulation is active. If the problem persists, consult the user manual for advanced cleaning procedures or contact technical support.
- **Ink Level Warnings:** Refill ink tanks promptly when low ink alarms are triggered. Do not let tanks run completely dry.
- **Film Feed Errors:** Ensure the DTF film is loaded correctly and is not creased or damaged. Check the roll feeder for proper alignment.
- **Software Communication Issues:** Verify the USB connection between the printer and the DTF computer. Restart both devices if necessary.

6. SPECIFICATIONS

Feature	Specification
Brand	Lancelot
Model Name	L1800-W DTF Printer
Printing Technology	Inkjet
Printer Output	Color
Maximum Color Print Resolution	4800 x 1200 dpi
Maximum Black and White Print Resolution	5760 dpi
Maximum Print Speed (Color)	6 ppm
Max Printspeed Monochrome	10 ppm
Print Media	Fabric
Maximum Media Size	11 x 17 inch (A3/A4)
Connectivity Technology	USB
Hardware Interface	USB
Product Dimensions	31.1"D x 9"W x 13"H
Operating System Compatibility	Windows 7/10/11 (Not Mac compatible)

6.1 What's in the Box:

- Lancelot A3 L1800 DTF Printer
- Dedicated DTF Laptop (pre-installed with drivers and software)
- Software Dongle
- Power Cable

- Printer Tray
- USB Cable
- DTF Film Roller
- 12 x 250ml Ink (CMYKWW)
- DTF Film (11.8 inch x 328 ft)
- 2 x DTF Powder
- 2 x Syringe
- 2 x Ink Sac (Spare Part)
- Disposable Gloves
- Screwdriver
- Screws

7. SUPPORT & WARRANTY

Lancelot is committed to providing excellent customer support for your DTF printer.

7.1 Warranty Policy:

- **3-Month Warranty:** Covers the printhead and mainboard.
- **12-Month Warranty:** Covers all other accessories and parts.

7.2 Technical Support Services:

Lancelot offers lifelong technical support to ensure your printing experience is smooth and efficient.

- **24/7 Multilingual Technical Assistance:** Expert help is available around the clock.
- **Remote Diagnostics and Troubleshooting:** Get assistance with resolving issues remotely.
- **Priority Replacement Part Dispatch:** Fast delivery of necessary replacement parts.
- **Lifelong Tech Support:** Continuous support for the lifetime of your product.
- **WhatsApp Service:** Provide your WhatsApp contact for high-quality remote service and direct communication with technical experts.



Figure 8: Lancelot Technical Support. This image depicts the Lancelot support team, emphasizing their commitment to providing comprehensive technical assistance and warranty coverage.

