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Graphtec CE8000-60-BASE-1

Graphtec CE8000-60 Plus 24" Cutter Plotter User Manual

Model: CE8000-60-BASE-1

1. INTRODUCTION

The Graphtec CE8000-60 Plus is a high-performance 24-inch cutter plotter designed to enhance production efficiency across various applications, including signage, vinyl graphics, DTF apparel, print & cut, POP & packaging, and automotive markets. This manual provides essential information for the proper setup, operation, and maintenance of your Graphtec CE8000-60 Plus to ensure optimal performance and longevity.

Verify that all components are present upon unpacking:

- Graphtec CE8000-60 Cutter Plotter Unit
- Machine Stand
- Updated CB09UB Blade Holder
- Standard Blade (for vinyl up to 0.25mm thick)
- Roll Media Holder
- Tool & Accessory Holder
- Power Cord
- USB Connector Cable
- Graphtec Studio 2 Design Software (License/Installation Media)
- Cutting Master 5 Plug-in for Adobe Illustrator and CorelDraw (License/Installation Media)
- Cutting Blade Manual
- Studio CE8000 Machine Training Videos (Access Information)
- 5 Design Cards for Artwork (SVGs, JPGs, Monograms, Commercial Use)



Figure 3.1: Overview of the components included with the Graphtec CE8000-60 Plus.

4. SETUP

4.1 Assembling the Machine Stand

Follow the instructions provided in the separate assembly guide for the machine stand. Ensure all bolts are securely tightened for stability.



Figure 4.1: The Graphtec CE8000-60 Plus plotter fully assembled on its dedicated stand.



Figure 4.2: Side view of the machine stand, highlighting its sturdy construction.

4.2 Software Installation

Install the provided Graphtec Studio 2 design software and Cutting Master 5 plug-in on your computer. Refer to the respective software installation guides for detailed steps. Cutting Master 5 integrates with Adobe Illustrator and CorelDraw for direct cutting from your design application.

4.3 Connectivity

The CE8000-60 Plus supports both USB and Wireless LAN connectivity.

- **USB Connection:** Connect the plotter to your computer using the supplied USB cable.
- **Wireless LAN:** Utilize the new Wireless LAN capability for flexible placement and seamless connectivity. Refer to the plotter's on-screen menu for Wi-Fi setup instructions.

4.4 Loading Media

Carefully load your desired media (e.g., vinyl, heat transfer film) onto the roll media holder. Ensure the media is aligned

straight and secured by the pinch rollers. The newly developed Media Set Assist Function helps in holding the media stable and preventing feeding problems.

5. OPERATING INSTRUCTIONS

5.1 Control Panel Overview

The CE8000-60 Plus features a touch screen and mechanical keys for intuitive operation. Familiarize yourself with the menu structure for easy navigation.



Figure 5.1: The plotter's control panel, showing the touch screen display and navigation buttons.

Table 5.1: Control Panel Functions

Button/Icon	Function
LINK	Manages connection settings (USB, LAN).

Button/Icon	Function
TOOL	Adjusts cutting tool settings (force, speed, offset).
ARMS	Configures Automatic Registration Mark Sensing settings.
AREA	Defines the cutting area.
MEDIA	Manages media settings (type, size).
CONFIG	Accesses general plotter configurations.
INFO	Displays plotter information (firmware version, serial number).
SLOW	Reduces cutting speed for precise adjustments.
ESCAPE	Cancels current operation or returns to previous menu.
ENTER	Confirms selection or enters a menu.

5.2 Basic Cutting Operation

1. Prepare your design in Graphtec Studio 2 or your preferred design software (e.g., Adobe Illustrator, CorelDraw) using the Cutting Master 5 plug-in.
2. Load the media onto the plotter, ensuring it is straight and secured by the pinch rollers. Adjust pressure adjustable push rollers as needed.
3. Set the origin point on the plotter using the control panel.
4. Send the cutting data from your computer to the plotter.
5. Monitor the cutting process. The CE8000 boasts a 450 gf cutting force and 39"/s cutting speed for efficient operation.
6. Once cutting is complete, unload the media.

5.3 Using ARMS (Automatic Registration Mark Sensing)

The reliable Registration Mark Sensing System (ARMS) ensures precise contour cutting of pre-printed graphics. This is crucial for applications like print & cut.

1. Ensure your printed graphic includes the necessary registration marks.
2. Load the printed media onto the plotter.
3. From the control panel, select the ARMS function. The plotter will automatically detect the registration marks.
4. Once marks are detected, send the cutting data. The plotter will adjust the cutting path based on the detected marks for accurate alignment.



Figure 5.2: The cutting head precisely reading registration marks on printed media for accurate contour cutting.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your plotter.

- **Cleaning:** Regularly clean the plotter's exterior with a soft, dry cloth. Use a brush or compressed air to remove dust and debris from the cutting area and around the pinch rollers.
- **Blade Replacement:** Replace the cutting blade when you notice a decrease in cutting quality or when the blade becomes dull. Refer to the Cutting Blade Manual for detailed instructions on how to safely replace the CB09UB blade.
- **Pinch Rollers:** Keep the pinch rollers clean and free of adhesive residue to ensure proper media feeding.
- **Firmware Updates:** Periodically check for integrated firmware updates to ensure your plotter has the latest features and performance enhancements.

7. TROUBLESHOOTING

This section addresses common issues you might encounter. For more complex problems, contact Graphtec support.

Table 7.1: Common Troubleshooting Guide

Problem	Possible Cause	Solution
Cutter not responding	Loose cable connection, power off, software issue.	Check power and USB/LAN connections. Restart plotter and computer. Verify software settings.
Poor cutting quality	Dull blade, incorrect cutting force/speed, media issues.	Replace blade. Adjust cutting force and speed settings. Ensure media is flat and properly loaded.
Media slipping during cut	Insufficient pinch roller pressure, dirty rollers, media not aligned.	Increase pinch roller pressure. Clean rollers. Re-load media, ensuring proper alignment.
ARMS not detecting marks	Poorly printed marks, lighting conditions, sensor obstruction.	Ensure marks are clear and high contrast. Check lighting. Clean ARMS sensor.

8. SPECIFICATIONS

Table 8.1: Graphtec CE8000-60 Plus Technical Specifications

Feature	Detail
Model Number	CE8000-60-BASE-1
Cutting Width	24 inches
Max. Cutting Force	450 gf
Max. Cutting Speed	39 inches/second (1000 mm/s)
Connectivity	USB, Wireless LAN
Registration Mark System	ARMS (Automatic Registration Mark Sensing)
Control Panel	Touch Screen and Mechanical Keys
Included Software	Graphtec Studio 2, Cutting Master 5
Material	Metal
Operation Mode	Automatic, Manual
Manufacturer	Graphtec America

9. APPLICATIONS

The Graphtec CE8000-60 Plus is versatile and suitable for a wide range of cutting applications:

- Signage and Vinyl Graphics
- DTF (Direct-to-Film) Apparel
- Print & Cut Applications
- POP (Point of Purchase) Displays & Packaging

- Automotive Markets (e.g., Paint Protection Film, Window Tinting Film)
- Custom Labels



Figure 9.1: Diverse applications including apparel, print & cut, vinyl decals, and paint protection film.



Vinyl Window Signage



POP - Packaging



Custom Labels



Window Tinting Film

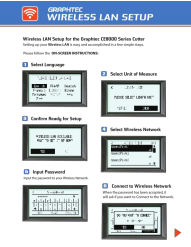
Figure 9.2: Additional applications such as window signage, packaging, custom labels, and window tinting.

10. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or visit the official Graphtec America website. For technical support, software updates, or service inquiries, please contact Graphtec America customer service directly.

Graphtec America Contact Information: Please refer to the manufacturer's official website or the documentation included with your product for the most current contact details.

Related Documents - CE8000-60-BASE-1

	Graphtec CE8000 Series: Precision Cutting Plotters - Features & Specifications Discover the Graphtec CE8000 Series roll-fed cutting plotters, engineered for high productivity and precision in signage, print & cut, and garment decoration. Explore features, capabilities, accessories, and detailed specifications.
	Graphtec CE8000 Cutter Firmware Update Guide via USB Step-by-step instructions for updating the firmware on a Graphtec CE8000 cutting plotter using a USB flash drive. Includes preparation, update process, confirmation, and factory reset procedures.
	Graphtec CE8000 Wireless LAN Setup Guide Step-by-step instructions for setting up Wireless LAN connectivity on the Graphtec CE8000 Series Cutter, including network selection and IP address configuration.
	Graphtec CE8000 Series Cutting Plotter Setup Manual A comprehensive setup manual for the Graphtec CE8000 Series cutting plotter, covering installation, configuration, and basic operation. Includes instructions for driver and software installation, wireless LAN module setup, connecting to a computer, and initial setup procedures.
	Cutting Manager Software User Manual for Double Plotter Units Comprehensive user manual for the Graphtec Cutting Manager software (V. 3.3.5), detailing interface controls, advanced options, industry 4.0 communication, job queue management, and troubleshooting for double plotter units.
	Cutting Manager Software User Manual - Graphtec Comprehensive user manual for the Cutting Manager software (Software V. 3.1.1) used with single plotter units. Covers user interface, advanced options, industry 4.0 communication, job management, and reporting.