

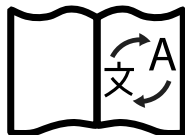


Digital Sheet Die-cutter ColorCut LC700 Series

Operating Instruction



Read this manual carefully before you use this product and keep it handy for future reference.
For safety, please follow the instructions in this manual.



Scan the QR code to access translated versions of this manual in German, Italian, French, and Spanish.

Visit <https://plockmaticgroup.com/LC700> to view the manual in your preferred language.

Introduction

This manual contains instructions on the operation and maintenance of this machine. To get maximum versatility from this machine all operators should carefully read and follow the instructions in this manual. Keep this manual in a handy place near the machine.

Please read the Safety Information before using this machine. It contains information related to USER SAFETY and PREVENTING EQUIPMENT PROBLEMS.

How to read this manual

Notation conventions

Whenever necessary, the following points for attention are indicated in this manual.

Warning:

Indicates a potentially hazardous situation which, if instructions are not followed, could result in death or serious injury.

Caution:

Indicates a potentiality hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to machine or property.

Notes

NOTE: A NOTE message tells you additional useful and important information about a procedure. It is recommended that you read notes.

Safety Information

When using this machine, the following safety precautions should always be followed.

Safety during operation

Warning:

- To avoid hazardous situations like for instance electric shock or danger while exposed to moving, rotating or cutting devices, do not remove any covers, guards or screws other than those specified in this manual.
 - Turn off the power and disconnect the power plug (by pulling the plug, not the cable) if any of the following conditions exists:
 - You drop objects or spill something into the equipment.
 - You suspect that your equipment needs service or repair.
 - Your equipment's covers has been damaged.
 - You notice unusual noises or odours when operating the equipment.
 - If the power cable or plug becomes worn out or otherwise damaged.
 - Before cleaning and care (unless otherwise specifically instructed).
 - Electromagnetic compliance:
 - This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
 - The product (System) which is connected to this machine will be class A.
-

General safety

Warning:

Always connect the equipment to a properly grounded power source (wall outlet). Wall outlet should be located near the system and easily accessible. If in doubt, have the power source checked by a qualified electrician.

Improper grounding of the equipment can result in electrical shock. Never connect the machine to a power source that lacks a ground connection terminal. This machine is destined for specific purpose only. Any use going beyond this specific purpose is regarded as beyond the determination. The manufacturer will not be liable for damages resulting from any use beyond the determination, unallowed operation, respectively. The user alone bears the risk.

Do not make arbitrary changes or modifications to the machine. The manufacturer will not be liable for modifications made at the machine on your own and damages resulting thereof. EC declaration of conformity and the mark CE will be invalidated, if you make changes at the machine or at the individual components.

Do not override or bypass electrical or mechanical interlock devices.

The machine is to be used only by authorized and instructed persons. The responsibilities on operating the machine have to be strictly laid down and observed so that there are no unclear competencies regarding safety aspects.

Vent holes serve for air circulation to protect the machine from overheating. Make sure that the holes are not covered.

Do not expose fingers or other parts of the body to moving parts.

Always locate the equipment on a solid support surface with adequate strength for the weight of the machine.

- This equipment is not suitable for use in locations where children are likely to be present.
 - This equipment is only intended for instructed and qualified operators.
 - Operators and technicians shall be familiar with the safety information in this manual and other safety information supplied with this equipment.
-

General safety, continued

Caution:

- The machine and its peripherals must be installed and maintained by a customer service representative who has completed the training course on those models.
- Always follow all warnings marked on, or supplied with, the equipment.
- When you disconnect the power plug from the wall outlet, always pull the plug (not the cable).
- Disconnect the power cord before you move the machine. While moving the machine, always exercise care and make sure that the power cord will not be damaged under the machine.
- Always contact service if relocating the equipment.
- Do not move the machine while the machine is running.
- Do not open covers while the machine is running.
- Do not switch off the power while the machine is running. Make sure the machine cycle has ended.
- Lay the power cord in a way that nobody will stumble over it. Do not place things on the cord.
- Never attempt any maintenance function that is not specifically described in this documentation.
- Always keep magnets and all devices with strong magnetic fields away from the machine.
- If the place of installation is air-conditioned or heated, do not place the machine where it will be:
 - Subject to sudden temperature changes.
 - Directly exposed to cool air from an air-conditioner.
 - Directly exposed to heat from a heater.
- If the machine is not used over an extended period of time it should be unplugged to prevent damage in the case of overload.

NOTE:

- The indications like front and rear, left and right refer to the paper transport direction.
- The operator manual always has to be available at the place of use of the machine.
- In the interest of technical development the company reserves the right to make alterations to specifications without prior notice.

Warning:

Do not put fingers or other parts between moving parts.

Safety measures

Please read the information and safety measures carefully prior to installation and initial operation of the unit.

- Do not place any magnetic objects in the vicinity of the cutting head; otherwise uniform contact pressure may not be ensured.
- Do not remove the connection cable to the computer while cutting is in progress.
- Relieve the pressure on the pressure rollers when not in use by moving the pressure lever up.
- Do not open or reach into the unit when it is connected to electricity supply.
- Never open the casing and do not make any modifications to the unit yourself.
- Ensure that neither liquids nor metal objects are put inside the LC700 Sheet Label Cutter.
- Ensure that the wall socket used is grounded.
- Ensure that the connected voltage (230V) does not deviate by more than $\pm 10\%$. Otherwise install a voltage stabiliser.
- Remove the power plug from the unit if it will not be in use for a longer period of time.
- Never reach into the unit in the vicinity of the blade holder during the cutting operation.
- Stop any cutting jobs in progress before re-adjusting the blade holder
- Always ensure that the Auto Sheet Cutter remains inaccessible to children during operation and never leave the unit or individual parts of it switched on without supervision.
- Do not touch the tip of the cutting blade to avoid injury.
- Always place the unit on a stable base or use the supplied stand to prevent it from falling down.
- Disconnect from the power supply during thunderstorms; it can be damaged or destroyed by electrical surges caused by lightning.
- Do not sit or step on the stacker tray. Stacker will break or machine will tilt over. The maximum load for the stacker tray is 15 kg.
- Be cautious when the top lid is open. Prior to accessing the interior, always ensure that the cutter is turned off and disconnected from power supply.

Table of Contents

What You Can Do With This Machine	9
Guide To Components	12
User Interface ColorCut LC700	14
ColorCut Pro Main Interface	17
1. Basics	29
Turning On / Off the Main Power	29
Launching ColorCut Pro	30
Direct Mode	31
Job Server Mode	33
Cutter Blades (An overview of Blade types)	34
The Blade Holder	35
Replacing the blade.....	35
Blade Adjustment	36
Test Cut	37
Configuring ColorCut Pro	39
Blade Adjustment	40
Scan Targets	42
Device Type.....	42
Output Device.....	43
Sensor Offset & the Auto Find feature.....	43
Units of Measurement	46
Choosing where to set Speed and Force.....	46
Activation/Deactivating ColorCut Pro License.....	47
Display Language.....	47
Productivity Options	48
Sort Method.....	49
Scan for QR Code on every sheet	49
After scanning QR Code ask before cutting	50
Automatic Production Options.....	51
Media Options	52
Position of PageMarks on Media.....	52
Production Log	53
Advanced Productivity options	54
2. Setting Up a Job	55
Graphics File Design - Creating Your Artwork	55
Layers.....	56
Drawing Cut, Perforated Lines	57
Line Colors recognised by ColorCut Pro	57
Registration Pagemarks	58
Positioning of Registration PageMARKs	58
Automatically Adding Registration PageMARKs	60
Using 'ColorCut Pro Add PageMARKs'	62
Cutting without using PageMarks.....	65
How To Cut Files Using ColorCut Pro	67
Cutting Jobs Directly from Graphics Application (Direct Mode).....	68
Retrieving Jobs from the Job Library (Job Server Mode).....	69
Enter a Job number to retrieve the Cut Job file directly	71

3. Settings and Options	73
The Settings and Options screen	73
Align Camera Sensor to Tool1	73
Scale Calibration	73
Quality Mode	74
Image Control	74
Advanced Productivity Configuration	74
QR Code Positioning	75
Network Settings	75
Connect to Network Share	76
Firmware	77
Sensor Check	77
4. Remarks	79
Do's and Don'ts	79
Where to put Your Machine	79
Machine Environment	79
Power Connection	79
Maintaining Your Machine	80
5. Specifications	83
Declaration of Conformity	84

What You Can Do With This Machine

The ColorCut LC700 digital sheet label cutter is designed to provide automatic sheet label cutting for digital print production users with no die's or setup costs. The LC700 combines reliable label-sheet feeding with instant job retrieval system - this enables effortless, yet precise, kiss cut label cutting at lightning-fast speeds.

To cut your projects with the ColorCut LC700 cutter, you need to be able to design your artwork and then apply lines that you designate for cutting, scoring or perforating. Projects and artwork can be created using either Adobe Illustrator on Mac or PC, or CorelDraw on PC.

ColorCut Pro is a plug-in that provides you the ability to send projects that you have designed in Adobe Illustrator® or CorelDRAW® directly to your ColorCut cutter with no need to convert them to a different format.

After you install ColorCut Pro™ (including ColorCut Pro - Production Studio) you will be provided with a new option within your Adobe Illustrator® or CorelDRAW® software program enabling you to send vector lines from your software to your ColorCut LC700 cutter. During the installation, ColorCut Pro will also add an option that enables you to automatically add Page Registration Marks (Referred to as PageMARKs in this manual) for print & cut jobs, these are scanned automatically using the ColorCut LC700's Vision3 CCD sensor, providing origin, scale, skew and rotation information. In addition ColorCut Pro will add an option for you to assign Job numbers or QR Codes to your cut jobs, enabling you to build a library of cut job files which can be used with a stand alone version of ColorCut Pro known as ColorCut Pro - Production Studio (or Job Server).

Files can be cut directly from your graphics application using the ColorCut Pro plug-in, or using the ColorCut Pro - Production Studio version of software, which can be launched separately either on the same or a different computer. ColorCut Pro - Production Studio is a simple interface that enables other individuals within your company the ability to cut your jobs at any time without requiring Adobe Illustrator or CorelDRAW, and without having to re-open the original file.

The ColorCut Pro plug-in does not currently work with any other vector imaging programs aside from those listed in the Compatibility section below.

Files may be cut directly from PC Graphics applications using ColorCut Pro's plug-in or using the by using ColorCut Pro - Production Studio (PC only). Mac users can design their jobs, add cutting registration marks, assign Job numbers, add QR Codes and add jobs to the ColorCut Pro Job library using the ColorCut Pro Mac Client. The Mac workstation is not used to cut the files, Mac jobs are sent to the ColorCut Pro job library on a remote PC for cutting with the ColorCut Pro - Production studio software.

Compatibility

The plug-in requires Adobe Illustrator® (Mac or PC) or CorelDRAW® (PC only) to be installed on the computer in question. The ColorCut Pro™ software does not include the Adobe Illustrator® or CorelDRAW® software.

Workstation Hardware Requirements

Compatible Vector Programs

	Adobe Illustrator® *	CorelDRAW® **
PC Windows	CS6; CC CC 2018 - CC 2026	2018 - 2026
Mac OS	CC 2020 - CC 2026	

*Does not support illegal copies of Adobe Illustrator

**Full version only. Does not support "Home and Student", "Essentials" edition or illegal copies of CorelDRAW

1. Multicore Intel processor with 64-bit support
2. Windows 10 Professional /11 Professional x64 bit
3. 4 GB of RAM (8 GB recommended (As supplied with ColorCut Pro Server Station))
4. Minimum display resolution: 1024x900
5. Recommended Display Resolution: 1280x960 or higher.
(Screens with resolutions such as: 1152x900, 1024x900, 1280x960, 1440x900, 1440x960, 1440x1024, 1440x1080, 1600x900, 1600x1080, 1600x1280, 1920x1080 or higher)
6. 2x available USB Ports (Note KB & Mouse often use a port each so factor this in)

Compatible OS Versions

PC Windows 10 Pro or 11 Pro – 64bit

Mac OS version 11 (Big Sur) - Mac OS version 26 (Tahoe)

Introduction

ColorCut Pro - Production Studio (The main application) is PC only. This is the application that communicates with cutter and will ultimately cut designs. This can be launched in two ways:

ColorCut Pro (Direct Plug-in): The ColorCut Pro plug-in can be accessed and launched from inside Illustrator or CorelDraw - just under your Print command. When starting ColorCut Pro directly from Illustrator or CorelDraw, it works just like the Print command. When the ColorCut Pro option is selected from the File drop-down menu in your graphics application, the vector lines on the currently selected layer are directly exported into the ColorCut Pro cutting window. Once exported to ColorCut Pro, simply choose the action for each colored line in your design e.g. Cut, Ignore, Perforate, Score and click start. Cutting will commence immediately. This is a very simple way to cut directly from your file.

Where access to the original artwork files is not practical, such as where a different user wishes to cut the job, then we recommend jobs are created with a job number and/or QR code. Adding a Job Number will automatically add the Cut file to the ColorCut Pro Job library, thereby enabling the job to be cut using ColorCut Pro - Production Studio software (detailed below), either on the same computer or a different computer.

ColorCut Pro - Production Studio (Job Server) Launched from the Start Menu on your computer. Identical to the main application that launches from inside Illustrator or CorelDraw, ColorCut Pro (Job Server) will open with no cutting file or job selected instead cut files are retrieved from the ColorCut Job library by entering the job number or scanning the QR Code on the printed sheets and then cut the file. The advantage of using ColorCut Pro - Production Studio in job server mode is that there is no need to open the original design files, thus no need for Illustrator or CorelDraw. The Job Server version of ColorCut Pro is stand alone, thus will cut files or jobs created and saved to the ColorCut Pro Job library using the ColorCut Pro add PageMarks & QR code feature (detailed below). Both in Direct or Job Server mode, users can choose speed, force and other cutting related controls and can set productivity options such as number of copies to cut.

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Introduction, continued

Within Illustrator (Mac or PC) or CorelDraw (PC only) you will find 2 additional functions:

ColorCut Pro ADD PageMARKs is a utility that automatically adds cutting registration marks to your artwork. (Known as PageMARKs). Illustrator or CorelDraw files with PageMARKs can be cut directly from Illustrator or Corel Draw by using the ColorCut Pro application.

ColorCut Pro ADD PageMARKs & QR code is a utility that enables users to assign a Job number and a QR code to their artwork so that it may be cut at a later date. The QR code is automatically generated and the job number and placed on your artwork. Once a QR code has been assigned to your artwork, the cutting file is sent (in the background) to the ColorCut job library for use later with the main ColorCut Pro (Job Server) application. With Job numbers and QR codes, files can be printed (or sent to RIP's (like a Fiery) and printed at a later date). The sheets can be cut using the ColorCut Pro (Job Server) version which can be done on a separate PC and does not require the original file to be opened. The design to be cut is retrieved automatically as the user enters the job number or the cutter reads the QR code. This is ideal for larger companies looking to separate design and finishing (Cutting) of jobs.

ColorCut Pro for Mac Users

Mac users can design and generate jobs on Mac workstations using ColorCut Pro's Job library feature.

NOTE: The main ColorCut Pro (Production Studio) cutting application is PC only, so Mac users can design their artwork on the Mac and use a PC to connect to the cutter for the cutting of the jobs.

Mac users can design and cut files using 2 different approaches:

1. You can use the Mac ColorCut Pro feature 'ColorCut Pro ADD PageMARKs'; this utility will add the registration marks necessary to cut your file. You should then save your design as an Illustrator file that can be opened on the PC which is connected to the cutter. (If you save the files in Illustrator format, you must have Illustrator also installed on the PC to open Illustrator files). You can then use ColorCut Pro in direct mode and then cut directly from the PC version of Illustrator.
or (the recommended solution is):
2. Connect a PC to your cutter and install ColorCut Pro - Production Studio, on the PC (on the same network as the MAC), configure the ColorCut Pro Job Library feature to act as a cut job library server for your Mac.

Use your Mac to create your artwork and then use the Mac ColorCut Pro feature 'ColorCut Pro ADD PageMARKs & QR Code'. (On MAC, this feature is found in the Illustrator main menu, just under the Print command). This feature enables Mac users to design on their Mac and then when the 'Add PageMARKs & QR Code' feature is selected from the Illustrator menu, ColorCut Pro will assign a Job number and a QR Code to the artwork, the cut file is automatically sent (in the background), to the ColorCut Pro Job library server on your PC so that it may be cut at a later date. This enables Mac designers to design efficiently on their MAC and allows Print Production operators to cut the Mac designed jobs from the remote PC connected to the cutter using the Job Server and Job Library feature.

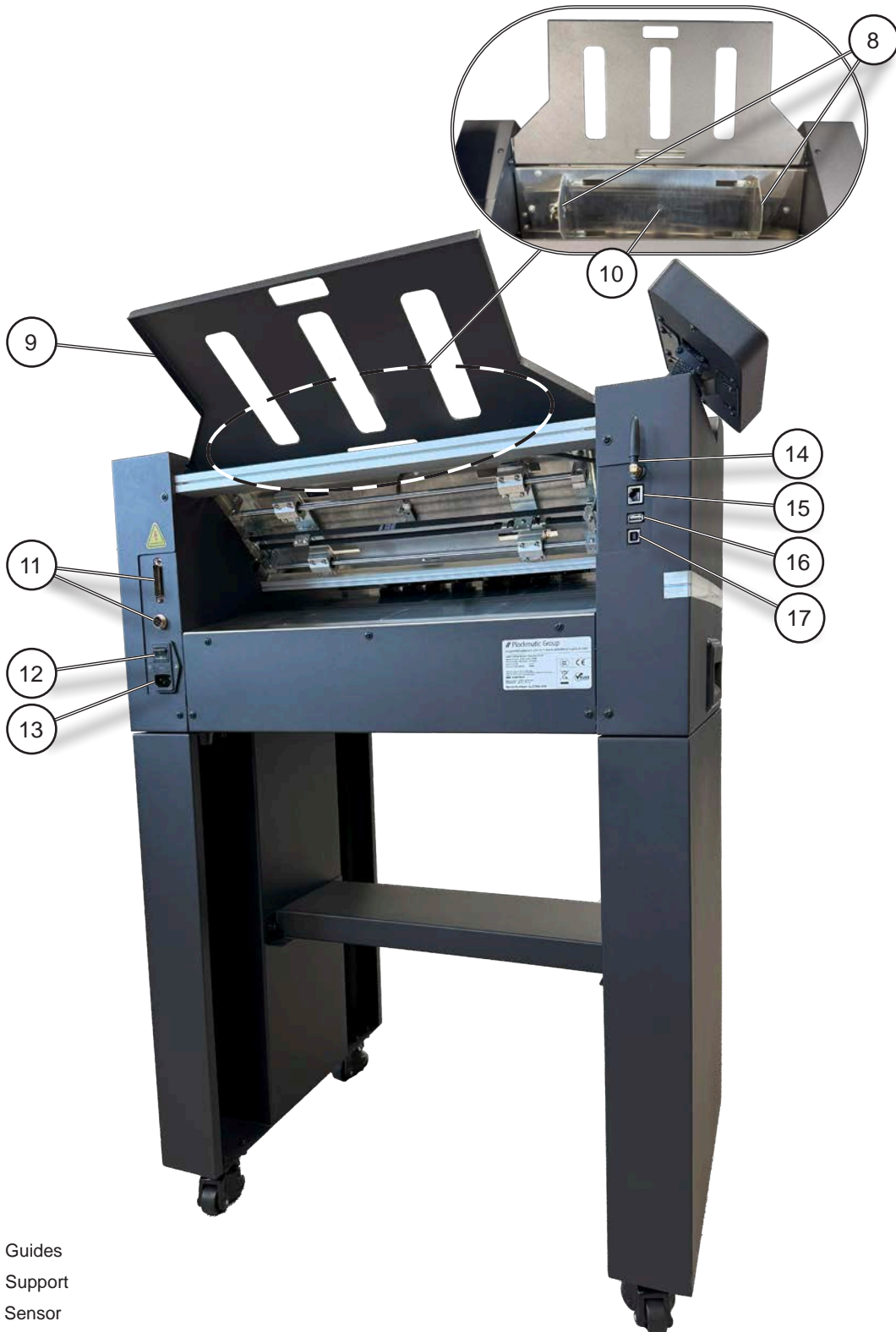
Guide To Components



- 1 Tool Carriage
- 2 Blade Holder
- 3 Front 'Dual Grip' Roller
- 4 Media Feed Rollers
- 5 7" LCD Touch Panel
- 6 Hard keys
- 7 Media Tray

Continued on next page...

Guide To Components, continued



- 8 Media Guides
- 9 Media Support
- 10 Paper Sensor
- 11 Communication Connectors
- 12 Power Switch
- 13 Power Cable Socket
- 14 Wi-Fi Antenna
- 15 Ethernet Connector
- 16 USB Drive Interface
- 17 USB Interface Connector

User Interface ColorCut LC700



On the control panel of LC700 there is an intuitive 7" Color LCD "Touch" LCD panel, with 6 hard buttons to help you make selections and change values to control LC700 cutter.

The 7" LCD display [B] is a Touch sensitive control panel, situated on the right side of the Control panel, it displays information about the current Tool settings and menu parameters for each screen selected. A range of Hard buttons [C] can be found to left of the display.

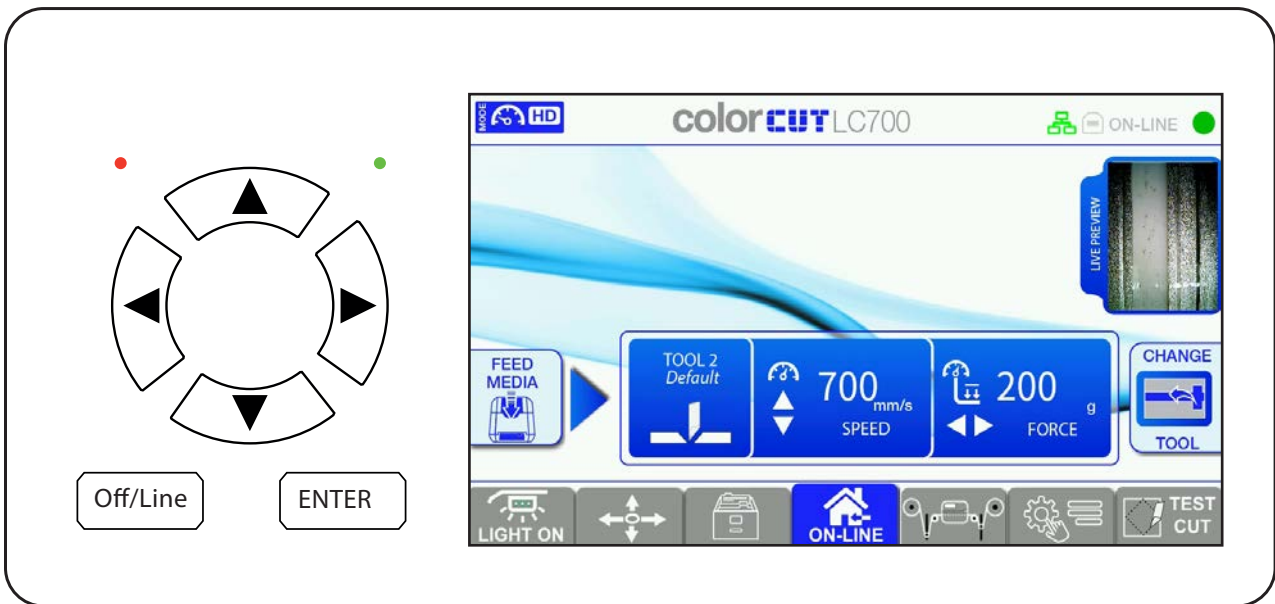
NOTE: The RED LED [E] indicates the unit is powered on, and GREEN LED, illuminates as a key is pressed.



When you power on the LC700 cutter, the message shown should be displayed on the LCD panel. This is a safety warning, that prevents the carriage moving until you press the [ENTER] key [D] on the control panel.

Continued on next page...

User Interface ColorCut LC700, continued



When the Home screen is displayed, the Speed and Force for the tool is displayed and can be adjusted. At the Base of the Touch Screen is a TAB Control strip. The TAB key's control the LC700 Light feature and access the MOVE function, the Menus/settings, and Test functions.

The 7" LCD panel screen has a number of Touch zones enabling you to control the settings, and select alternative functions.

The row of TOOL1 can be touched to control TOOL1. SPEED and FORCE for TOOL1 can now be adjusted. With a Tool selected, please find below details of the function for each hard button.

NOTE: When a hard button is pressed the green led briefly illuminates to confirm.

Up	Increases speed for the selected Tool when the Home screen, is displayed	(Range 0 - 960 mm/s)
Down	Decreases speed for the selected Tool when the Home screen, is displayed	(Range 0 - 960 mm/s)
Left	Reduces force for the selected Tool when the Home screen, is displayed	(Range 0 - 760 g)
Right	Increases force for the selected Tool when the Home screen, is displayed	(Range 0 - 760 g)
Enter	Pressing the button will accept the setting shown on the LCD panel when changing menu options	
Off/Line	Pressing the button places the cutter offline and jobs can not be sent. Pressing the button again, will take place the cutter ONLINE ready to cut jobs.	

In addition, when you scroll through the menu options, or setting the parameters. Pressing the [OFF/LINE] key leaves the menu list and returns to the default home screen.



Lights On/Off

Pressing [LIGHT] button can be used to control the Light Bar function. The Light Bar is situated under the front upper panel.

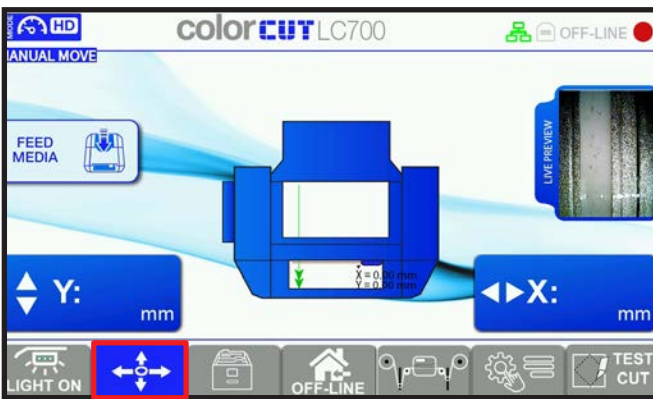
The light bar will also illuminate the Vacuum pick up belt and display window at the rear of the machine.

The Light function Tab button, is a toggle action - press once to turn on the Light Bar. Press again to Turn Off the Light Bar. The [LIGHT] TAB key will change to reflect the status of the Light Bar.



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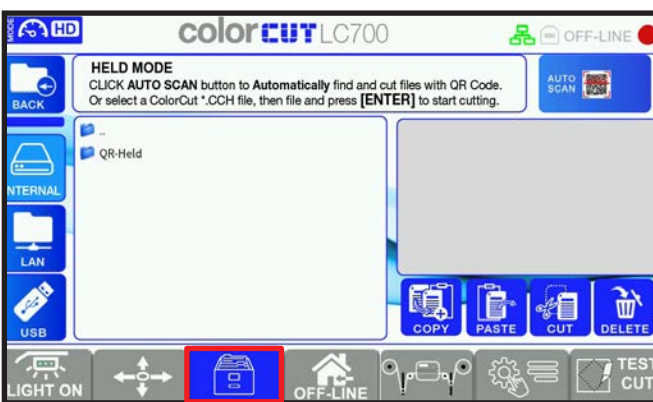
User Interface ColorCut LC700, continued



Move

The Move screen allows you to move the Tool carriage and Feed the media feed rollers backwards or forwards on ColorCut LC700 cutter.

The Move function is an important function when using Test Cut function as it enables you to manually load media from the front of the cutter. In addition the Move function may also be useful to remove a cut out element that did not have Tags to hold it in the sheet or to clear a jam or misfed media - with specialist media (like sugar or rice paper) you can use the Move function to advance the rollers to assist in cleaning the rollers.



Held Mode

The Held screen, allows you to cut jobs directly on the cutter without the need for your computer to be connected.

There are 2 ways to start cutting.

1. Click the "Auto Scan" to automatically retrieve a QR code job stored in the QR-Held folder;
2. Manually select a Cutting file in the directory listing show on the screen from the USB drive or Network share by selecting the cut file name from the list (you will be able to see a preview) on the right side of the LCD panel, with the file selected then press the [ENTER] hard key to cut the job.



Menu - Settings & Options

The Settings & Options Menu screen allows you to check settings or change options.

Press the Menu Tab to select the Menu Settings & Options screen. In the Menu mode, the cutter status changes to [Off Line] and will no longer receive new cutting files. When you have finished changing the menu settings press the [Home / ON-LINE] key to return the cutter to the Home screen and change the LC700 cutter status back, to Online.



Test Cut

The Test Cut function allows you to check your blade depth/force settings.

Press the [TESTCUT] TAB, to initiate the Test Cut function.

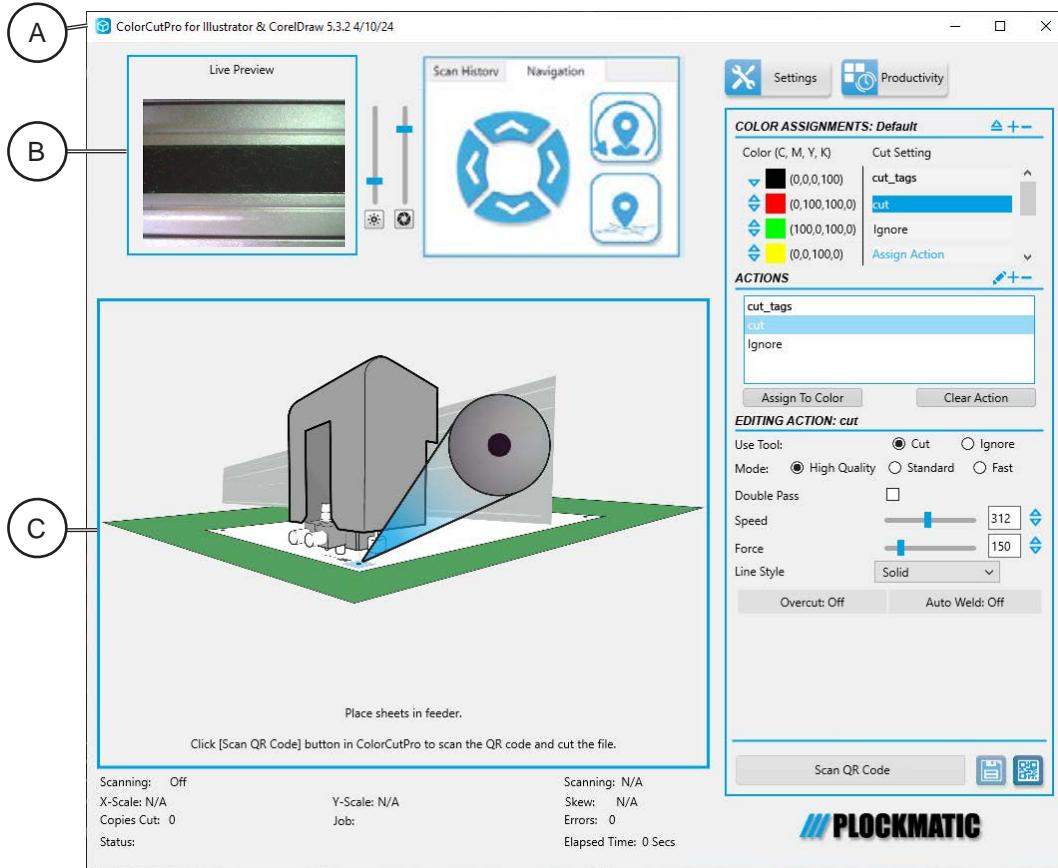
A quick check and final adjustment of the blade depth & pressure can be made by using the Test Cut function. This is carried out by loading a sheet of media in from the Front of the cutter (this enables you to leave a stack of media in the feeding tray).

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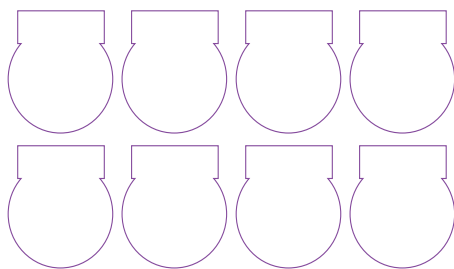
ColorCut Pro Main Interface

Version information for ColorCut Pro

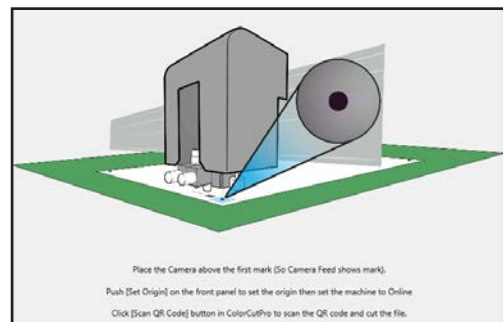
The version of ColorCut Pro [A] can be seen in the main interface Window, just under the Live preview [B] Window and above the Job Preview Window [C].



Job Preview Window



ColorCut Pro Direct Mode



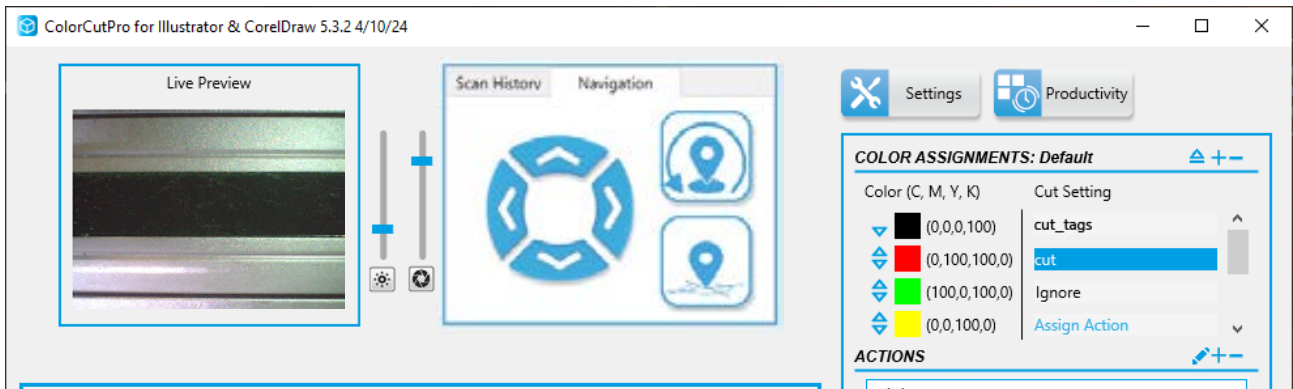
ColorCut Pro Job Server Mode

When launching ColorCut Pro in Direct mode a preview of the cutting profile on the selected layer will be shown in the Job Preview Window.

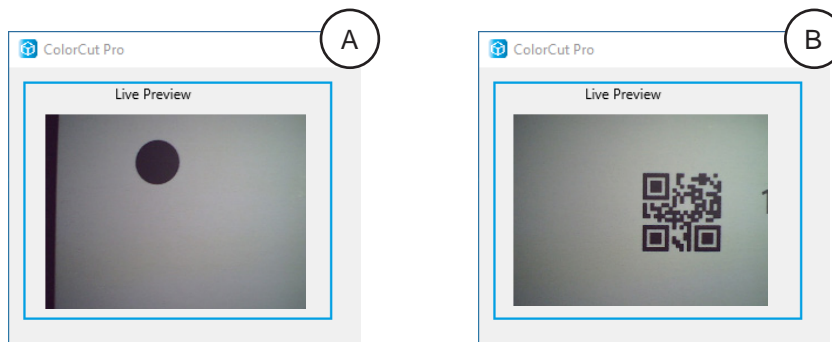
When launching ColorCut Pro in Job Server mode an information graphic will be displayed in the Job Preview Window. This will be updated with the Cut Job file preview once you have manually entered the Job number or scanned the Barcode.

Live Preview Window

Live preview is fed through the USB cable and is shown here for setup and troubleshooting purposes.

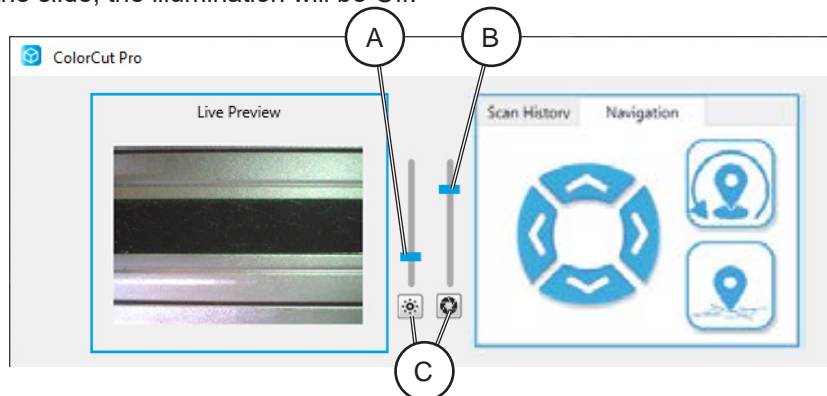


The Live Preview Window displays a real-time video of what the Vision3 CCD camera sensor captures. When starting a Cut Job, you will see the initial PageMARK [A] being captured. If you are also scanning QR codes [B], you will see it being captured and then each of the other PageMARKs.



Brightness/Illumination Control

The Vision3 CCD camera sensor, includes a LED strip that illuminates the area being captured. With some types of media it may be necessary to increase or decrease the brightness of the illuminated area, particularly with porous substrates like rice paper, or reflective/foiled materials. Adjusting the slider [A] up, will increase the brightness, while adjusting the slide down will reduce it, same applies for exposure slider [B]. When positioned right at the bottom of the slide, the illumination will be Off.

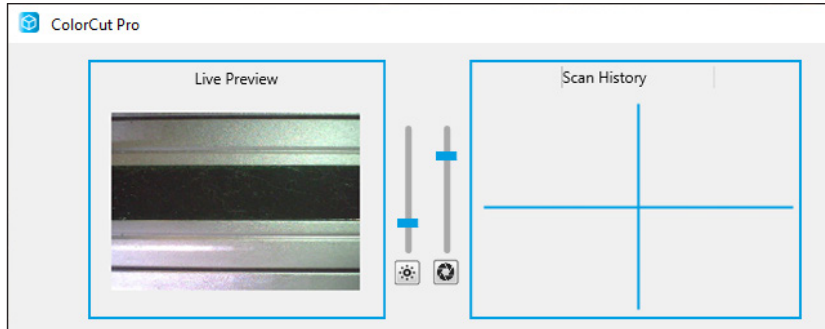


The buttons at the base of the sliders [C], will reset sliders to the Default level that is recommend for daily operation.

NOTE: While adjusting the slider may help for a one off, selected media (if you find you are frequently having difficulty scanning marks on a specific colour media or reflective media). You may find it better to use the Automatic: Retry Scan with Varying Light Levels feature. This will scan the marks on the current light level then retry the scan on a lower, then a higher light level automatically for you (See section "Advanced Productivity options").

Scan History

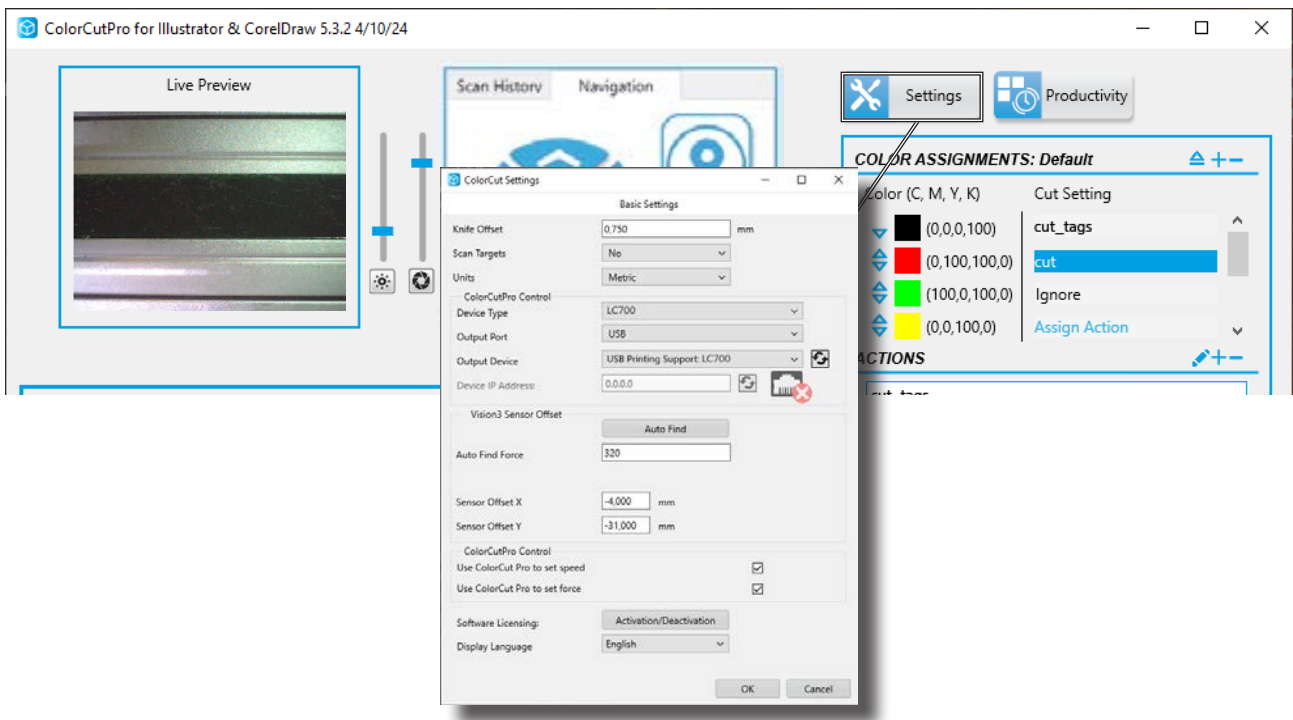
The Scan History window will display the history of each scan, enabling you see if a scan failed and to help you understand the progress of your cutter.



You can watch the live video preview and the Scan History window, when a sheet is loaded. When sheet is placed the Vision3 sensor must be moved directly over the 1st mark in navigation tab. In the live video preview the 1st Mark (Target) should appear in the centre of the video preview area. If it is slightly off centre the cutter will readjust for centre and save the position in the Scan History window, and move on to the next mark.

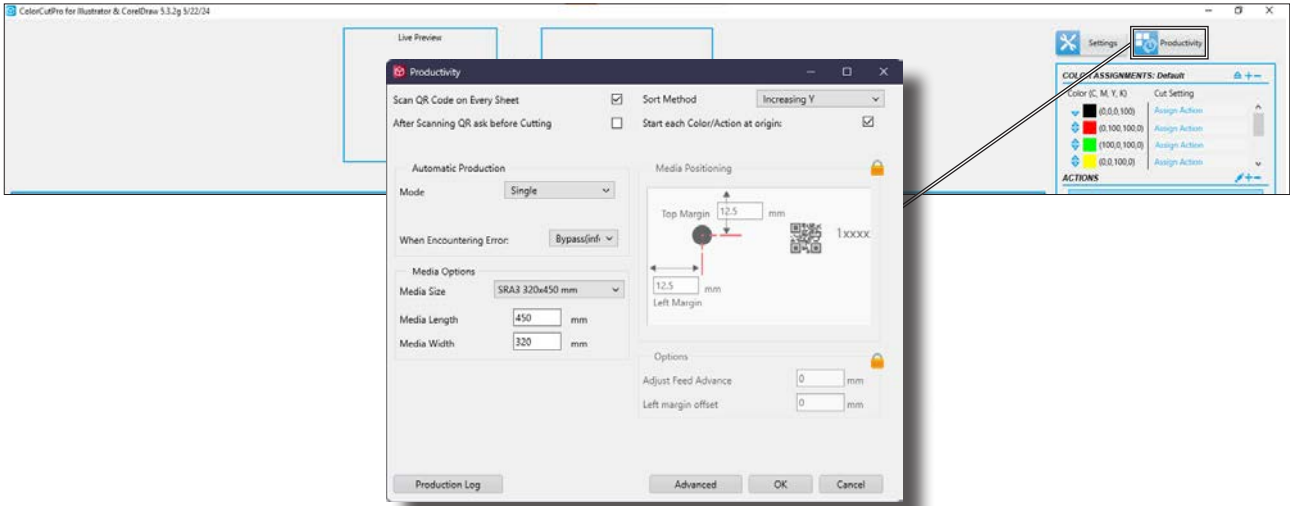
Settings

The Settings Button will display the Settings Window as shown below, which allows you adjust general settings such as knife offset, target scanning, units, etc.



Productivity

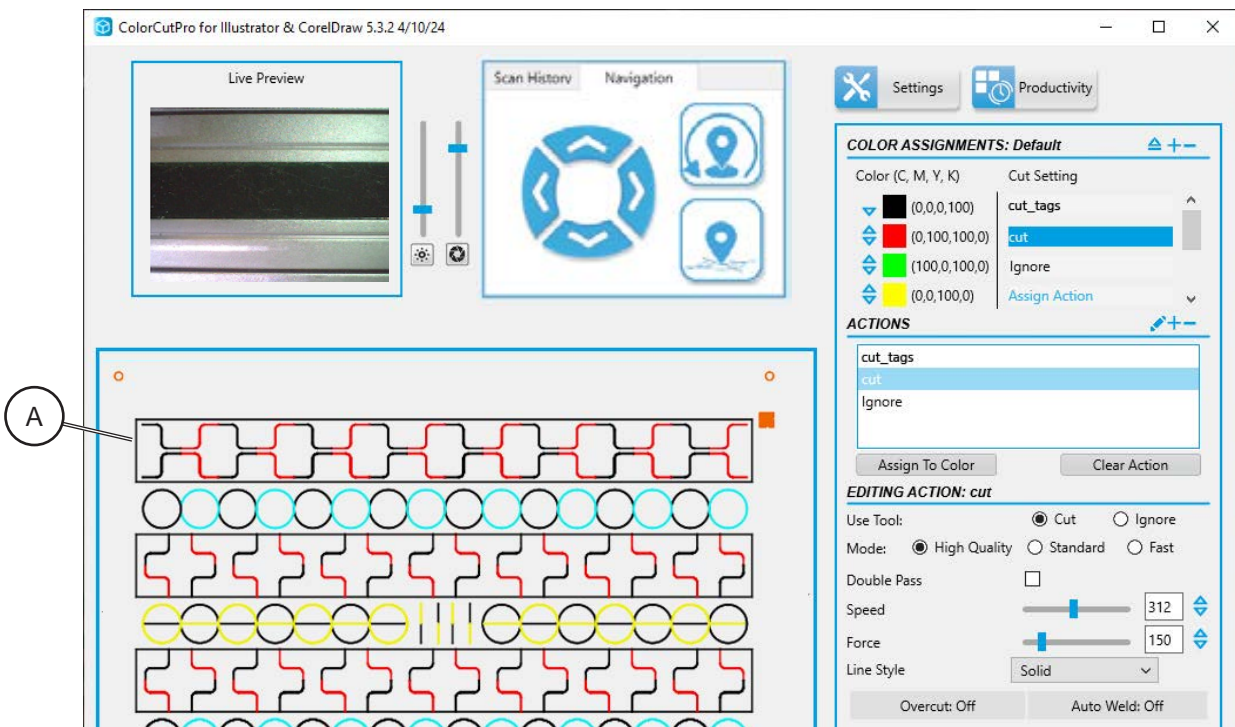
The [Productivity] Button will display the Productivity Window, required for setting the Media size loaded in the Auto-Sheet feeder and the default margin of the 1st PageMark (These are required for correct scanning of the PageMARKs & QR code). The Productivity options also enabling optimization of features that affect the cutters productivity, including the ability to handle single sheets, copies or continuous mode.



Cut Settings

ColorCut Pro displays a preview of the file to be cut in the Job Preview Window [A]. If the cut file contains different line colors then each color is matched to one of the 8 primary colors that ColorCut Pro recognizes. The cutting lines are displayed in their respective colors, with each color listed in the Color Assignments window.

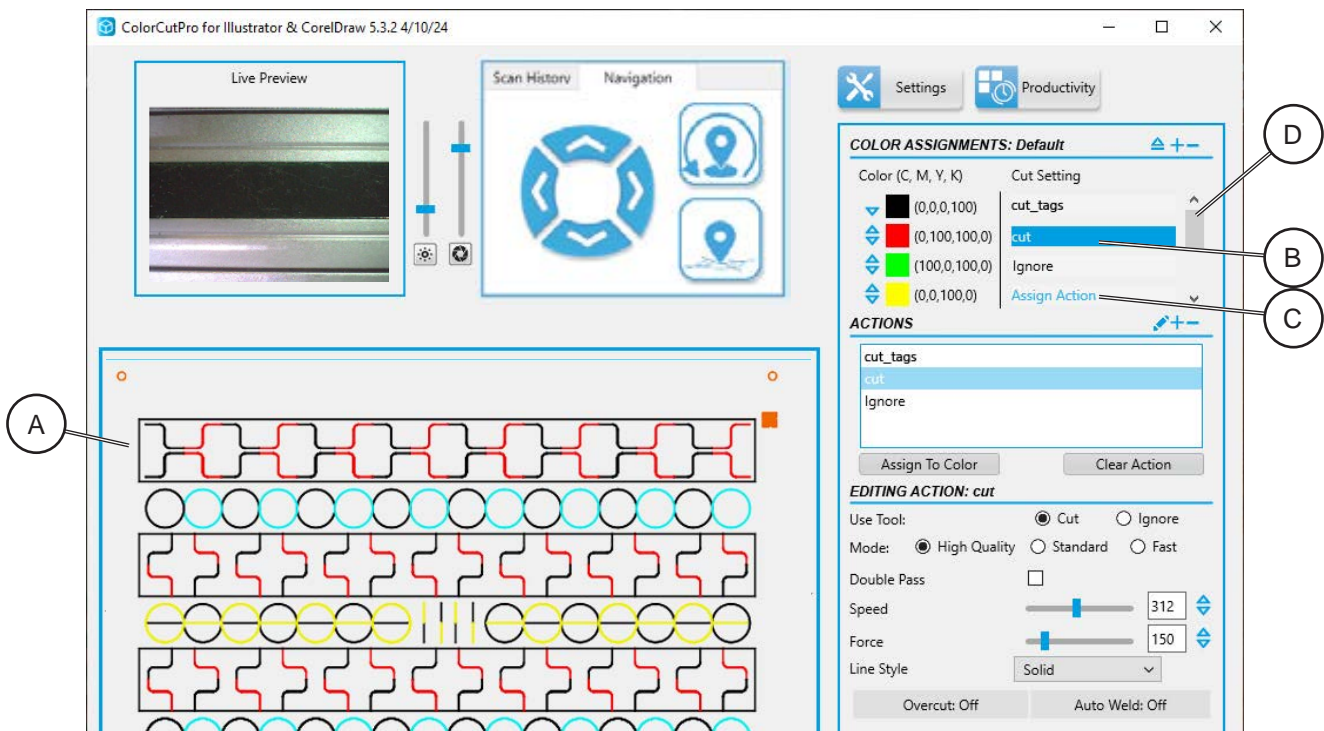
Next to each color, a Cut Setting/Action will be shown. The software will remember previous Cut Setting assignments applied to a color from the last time the Color was assigned. (If a Color has not previously been used, the assignment may be blank).



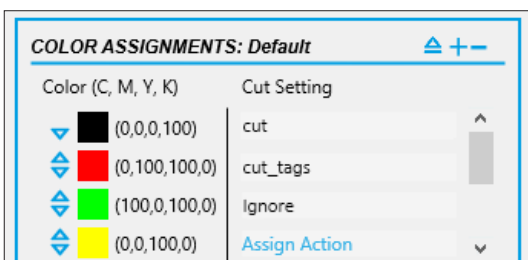
Cut Settings

ColorCut Pro displays a preview of the file to be cut in the Job Preview Window [A]. If cut file contains different line colors then each color is matched to one of the 8 primary colors that ColorCut Pro recognises (See section “Line Colors recognised by ColorCut Pro”). The cutting lines are displayed in their respective colors, with each color listed in the Cut Setting window.

Next to each color, a Cut Setting/Action will be shown. The software will remember previous Cut Setting assignments applied to a color from the last time the Color was assigned. (If a Color has not previously been used, the assignment may be blank).



In the example above (showing a different cut profile in the Job Preview Window [A] for explanation purposes) there are multiple colored lines within the cutting profile. The Red line has the Cut Setting/Action ‘cut’ [B] next to it; while the Yellow colored lines [C] bare yet to have an action assigned to them. If there are more colors than shown on the list, use the scroll bar [D] to see the additional colors.



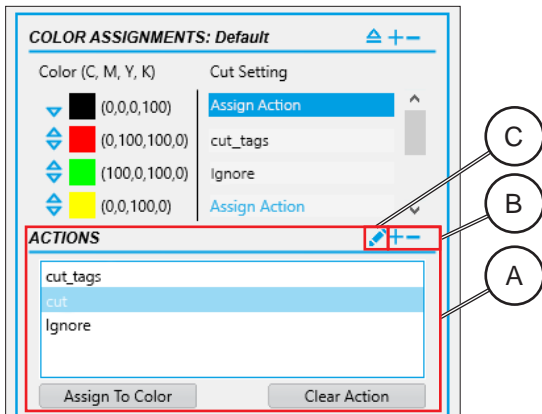
The sequence/order in which the actions are completed is the order in which the colors are shown in the Cut Settings list.

It is recommended to perform Scoring operations before cutting your substrate. If necessary the cutting order can be changed by using the arrow symbols next to each color. The Up arrow will move a color up the list.

NOTE: Remember colors at the top of the list will be processed first.

Actions

You can create Actions for each process/task you wish the cutter to perform in Actions panel [A].

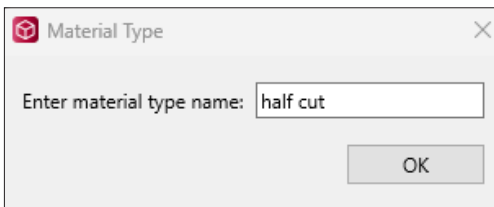


An Action is a profile consisting of the following saved settings being used:

- Cutting Tool (Cutter or Ignore)
- Speed of Tool
- Force/Pressure applied by Tool
- Type of Line (Solid, or Dashed, or with Tags)

As you get used to your LC700 and the different materials you cut, you can start to save these profiles for different cutting forces or speeds dependant on the media types.

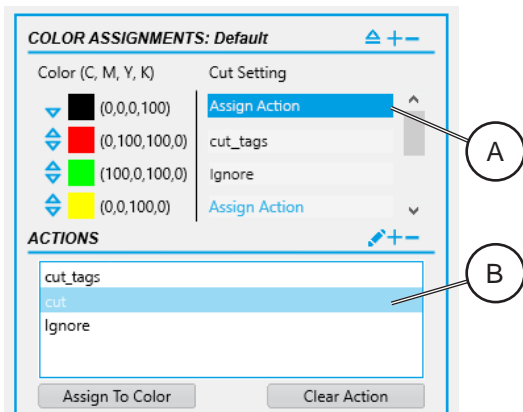
The Actions Window [A] shows a list of all the pre-defined settings/profiles you have created that you can use or employ. You can click the [+/-] symbol [B] to add a new Action. If you wish to rename the Action, click on Pencil symbol [C] and enter new action name, then click [OK].



After clicking the [+] symbol you will be prompted to enter the name you wish to call your Action.

Click [OK] and then follow the instructions in following sections.

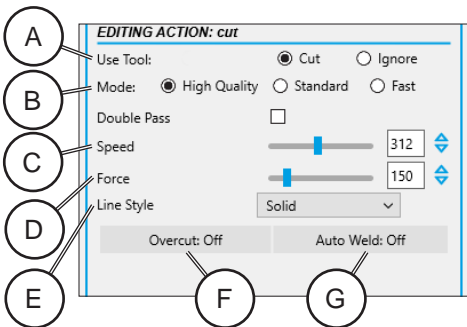
Assigning an Action to a Color (or clearing one)



1. To assign an Action to a colored line, select the Line Color you want to assign the action to in the Cut Setting Panel, in this example we will click on the Cyan/light Blue color [A]. (Click on the "Assign Action", next to the Color).
2. Then select the Action you wish to be applied (in this case we selected a new action we created called 'Perforated Cut' [B]).
3. Finally click the [Assign To Color] button. The name of the selected action will appear next to the Line Color.
4. To change an action, follow the same steps, Click on the right side of the Color Settings (on the currently assigned action name). Then select the new Action you wish to apply and click [Assign To Color].
5. To Clear a Action from a Cut setting, Click on the right side of the Color Settings (on the currently assigned action name). And click [Clear Action].

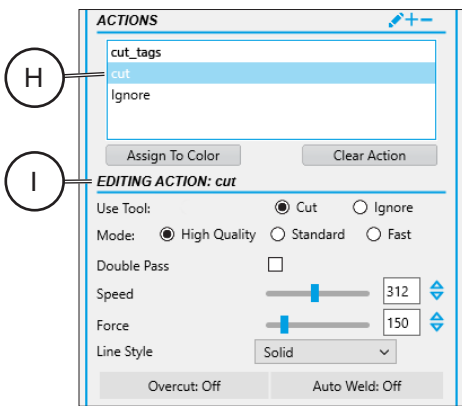
The Editing Action Window

The Editing Action Window displays the parameters used for the Action selected. You can check, review and edit the settings to suit the action and any changes will be applied to the Action immediately on the next cut.



Each Action, includes the following adjustable settings:

- Tool Used [A]
- Quality Mode [B]
- Speed of the tool during cutting [C]
- Force/Pressure applied during cutting [D]
- Line Style (Solid or dashed/perforated) [E]
- Overcut [F]
- Auto Weld [G]



When creating a new Action, first create a new name (See section "Actions").

To edit Action select it's name from the list in the Action Window. When a Action is highlighted (in this case you can see we have highlighted the action 'Cut' [H]). The name of the selected Action 'Cut' can be seen in the top of the Editing Action section [I].

All parameters displayed in the section below combine to create the profile for the Action "Cut".

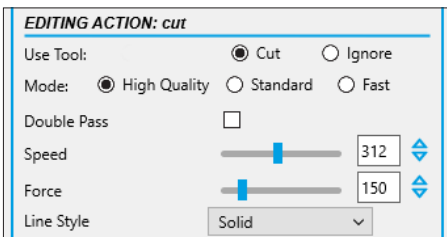
You can edit these values if required to adjust the profile to suit your requirements.

Selecting the Tool (Cut/Ignore)

The Use Tool [A] allows you to select the Cut Tool to cut your material. Or you can choose to Ignore the line for cutting.

The Ignore feature is helpful if you notice that your cut file includes lines you did not mean to cut. (All other features such as speed or force will also be ignored if you select Ignore).

Selecting the Line Style of the Cut Tool



The parameter Line Style [E] controls the type of line that will be cut. By default this is a Solid line. However, you can change the line style to a Dashed Line for a perforated cut.

Changing the Line Style will update the preview in the Job Preview Window (if the Action is assigned to one of the Line Colors in the job preview) so you can see the Line change to a dashed line.

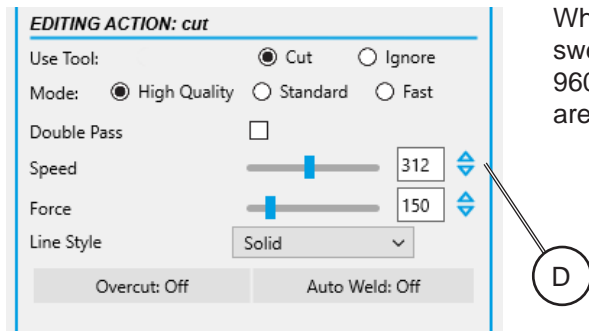
You can set the distance of the knife down (cut) and the knife up (gap) so this feature can also be used to create tags to hold elements in the sheet.

Dashed line (Adjustable) - creates cuts based on Cut length as a Priority and a gap. When the Gap is specified, the software aims to keep the Cut Length the same while also making sure the cuts align with the object. It does this by adjusting the gap so that the number of line lengths in a object line stays consistent for cutting.

Dashed line (Exact) - maintains the Cut Length and Gap as specified. This can result in some long lines appearing to have inconsistent line lengths. For example, if Cut Length is set to 50 mm (2") and the Gap of 0.5 mm (0.02"), a 230 mm (9.1") line may have 4 cuts of 50 mm (2") and one cut of 30 mm (1.2"), but gaps between the cuts will be 0.5 mm (0.02").

Speed of Cut Tool

The parameter Speed [D] controls the speed of the carriage while cutting your design/project. The available range is 7 mm/s - 960 mm/s.

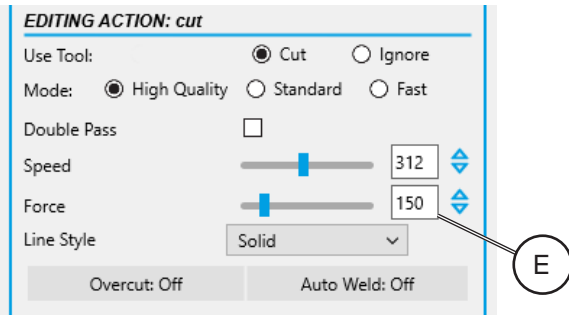


When cutting projects with predominantly straight lines and sweeping curves, high speeds can be used for example 850 - 960 mm/s. However for small delicate shapes slower speeds are recommended.

It is possible to create multiple actions with different speeds. You can then apply the different actions to various elements within your cutting design (the design will need to be created using different line colors to allow you to identify each element) This makes ColorCut Pro highly versatile as it enables you to assign multiple different speed profiles within one cut file using the different line colors.

Force of the Cut

The Force parameter [E] controls the pressure applied by the tool. The maximum cutting force is 750 g (1.6 lb).



- Settings above 500 g (1.1 lb) may suggest the need for extending the blade more.
- Settings below 100 g (0.2 lb), may indicate too much blade exposure.

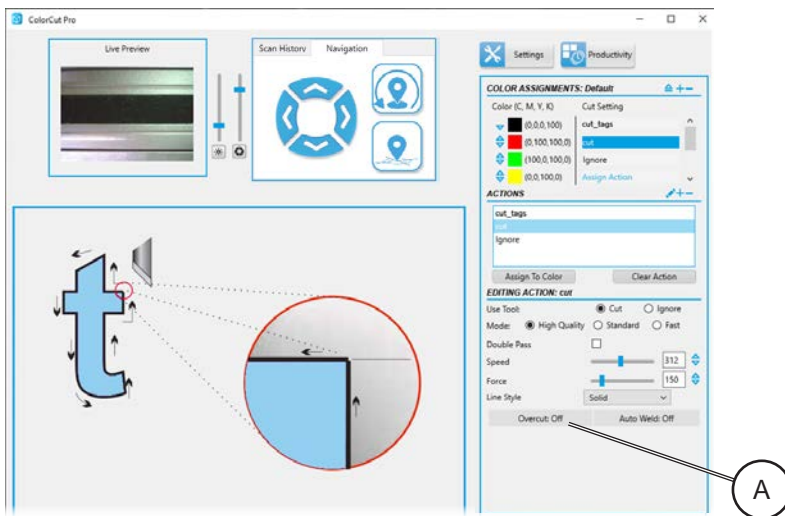
The best cutting results are achieved by using pressure to cut, rather than extending the blade. Minimal blade exposure ensures optimal cutting quality.

NOTE: Using too much blade reduces blade life span and causes excessive wear on the cutting strip, leading to poor corner turns.

Overcut

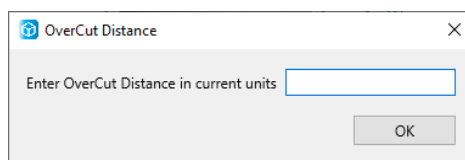
OverCut extends the cut line at the end of an object line (or curve) at the point where the blade would normally be lifted.

This way it makes sure that the design is completely cut. Due to a variety of tolerances without the OverCut function, the cut line may not be completely closed



The default setting for Overcut is “Off” [A].

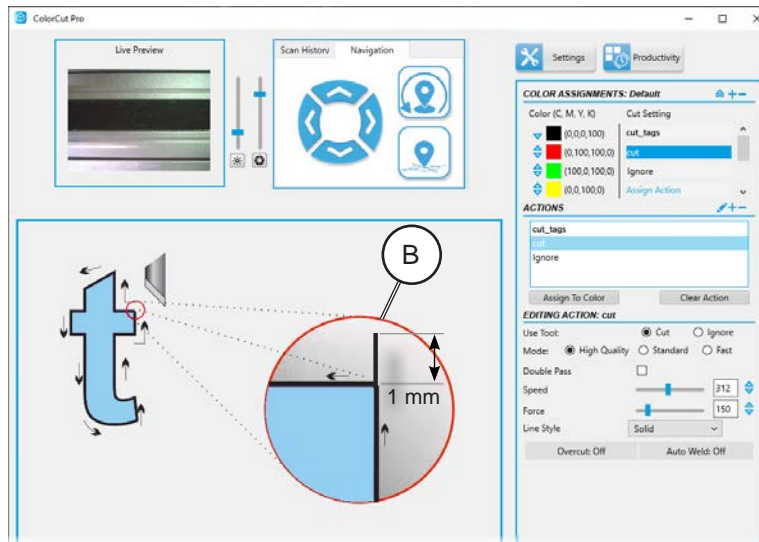
To Activate OverCut, click on the Blue button on the right side of the OverCut section and a dialogue box will appear asking you what value you wish to set OverCut to.



Set the OverCut value to approx. the width of the blade (for labels).

Continued on next page...

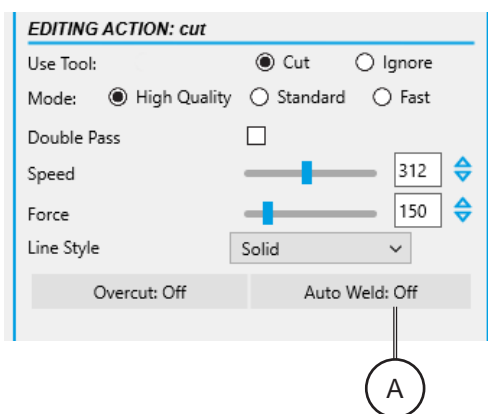
Overcut, continued



With OverCut enabled the blade will overcut the endpoint of the object prior to lifting [B].

NOTE: If cutting complete shapes and 1 mm is insufficient, it may be necessary to increase the value to 2 (0.08") or 3 mm (0.12").

Auto Weld

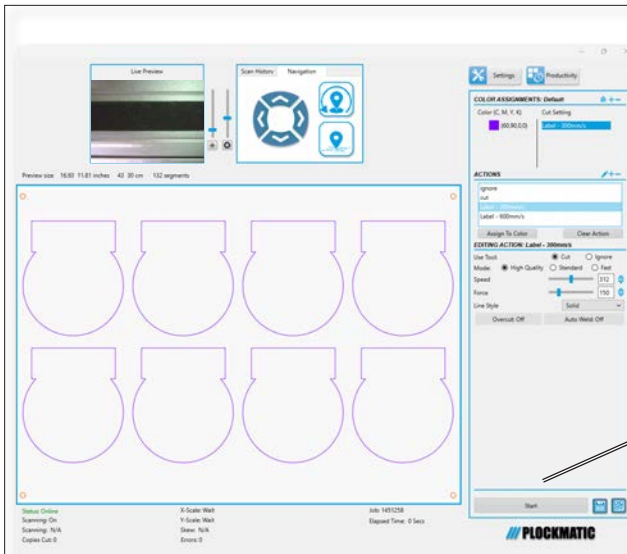


The Auto Weld [A] function serves as an indispensable tool for rectifying errors in artwork where lines are disjointed.

This function is especially useful for keeping the cutter head from rising while transitioning from the end of one line to the start of another, essentially combining these segments into a single continuous cut. By seamlessly connecting these lines, Auto Weld not only saves time but also ensures a smoother and more precise cutting process.

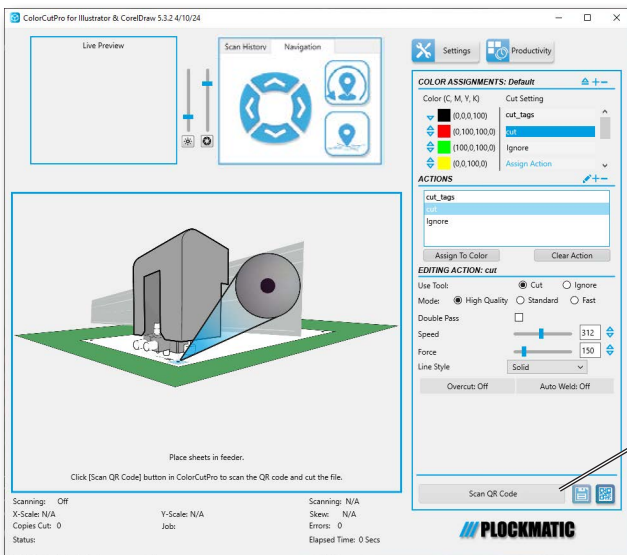
Start/Scan QR Code

The [Start] or [Scan QR Code] control is a dynamic button which changes based upon the mode you are working in.



If you have opened the Cutting file directly from your Graphics application, or you have manually entered a Job ID (See section “Declaration of Conformity”) to manually load a job to be cut, the Job preview area will show the job which will be sent to the cutter, and the button will display ‘Start’ [A] enabling you to start cutting.

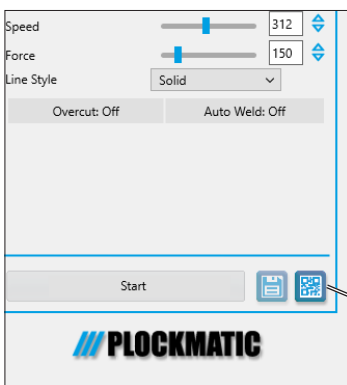
This is also known as Direct Cutting Mode.



Alternatively, if you have opened ColorCut Pro Stand Alone (Job Server Mode) there will be no preview of a job in the preview area.

In Job Server mode the button will show ‘Scan QR Code’ [B], which when clicked, will load a sheet and scan the QR code to retrieve the job and load it into the cutting preview area, then start cutting as defined in the Productivity set-up.

Switch Modes



The QR code icon [A] enables you to change the mode of the current instance of ColorCut Pro.

Clicking the icon, when no job is shown in the preview window (When the ColorCut is in Job Server Mode), enables you to manually enter a QR code to pre-load the job.

This enables you to check line/action assignments prior to large productions. See section “Retrieving Jobs from the Job Library (Job Server Mode)”.

Clicking the Icon, when a Job is loaded in the Preview Window (the cutter is in Direct Cutting Mode) switches to Job Server mode (ready to Scan a QR code).

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1. Basics

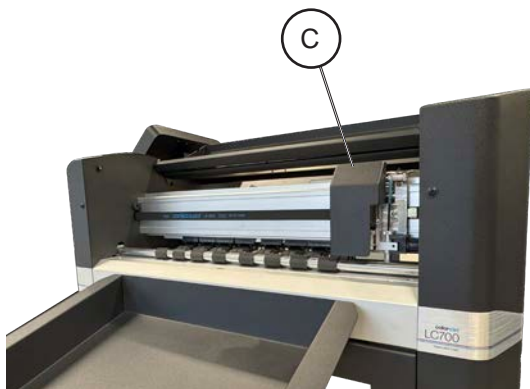
Turning On / Off the Main Power



1. Make sure that the LC700 power cord is plugged into the wall outlet.
2. Set main power switch on to ON position [A].



3. The red power lamp [B] on the control panel lights up, the LCD display will illuminate and show a safety message asking you to press the [ENTER] key to continue.



4. The Tool Carriage [C] will move to the furthest right point.
5. These actions are part of the initialization process. Once the Tool Carriage reaches the point, the display will switch to the HOME screen, indicating that the cutter is ready for use. Make sure the cutter is set to ON-LINE before proceeding.

Launching ColorCut Pro

There are two different ways to Launch ColorCut Pro Production Studio.

ColorCut Pro - Production Studio is the full version of ColorCut Pro, and is used to cut your files. It can be used in two different ways, you can select the most suitable method for your working environment.

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1. ColorCut Pro (Direct Plug-in) is launched Directly from your graphics application. Launching ColorCut Pro, directly from your Graphics application will transfer the currently open design file (specifically the currently selected layer) directly to ColorCut Pro for cutting. This enables you to cut the file you are working on (or open a previously saved file). This way of working is ideal for testing a design or where the cutting will be handled by the same person that makes the artwork.

NOTE: When working in ColorCut Pro (Direct) mode, as ColorCut Pro is launched directly from the graphic application it requires either Adobe Illustrator or CorelDraw installed on the computer that will do the cutting. In addition the operator will need to locate the file to cut and to be able to use the graphics application in order to launch ColorCut Pro. For this reason we typically recommend using the stand-alone mode of ColorCut Pro - Production Studio, also known as ColorCut Pro Job Server mode.

2. ColorCut Pro (Job Server Mode) does not need a graphics application installed on the computer. It also does not require you to locate the original graphics file. In addition the simplified interface is designed to be used by any operator (typically a Print Finisher with no specific computer or Graphic Applications skills) by providing a [Start/Scan QR Code] button to start operation.

When using ColorCut Pro in Job server mode your files must already have been created and had PageMARKS and a Job Number/QR Code added during the design stage. When the 'Add Job Number & QR Code' feature is carried out by the designer, the cutting lines are saved automatically for all users in the Job library folder.

When using ColorCut Pro - Production Studio (Job Server Mode), ColorCut Pro is launched on its own (stand alone) on your computer from the Windows Start Menu. The appropriate cutting file is retrieved by the operator entering the job number or can be retrieved automatically as the LC700 scans the QR Code.

Using ColorCut Pro - Production Studio in (Job Server) mode streamlines the cutting process and retrieves cut files for you making cutting much easier. It is the recommended way of working for busy designers so they can find the files quickly and especially in companies where the cutter operator is a different person to the graphic designer, or where a different computer will be used for the cutting such as in MAC environments.

NOTE: When working in ColorCut Pro - Production Studio (Job Server) mode, as ColorCut Pro will retrieve the cutting files from the job library for you, it is important that your files were created with a Job Number and QR Code using the 'ColorCut Pro 'Add PageMARKS and QR Code' feature in the design process from your Graphics Application.

The following section of this manual details how to launch ColorCut Pro - Production Studio to cut your files using either method.

Direct Mode

Selecting the Outline Layer

It is important to note that when you launch ColorCut Pro - Production Studio, the software will examine the currently selected 'Layer' in your graphics application and isolate all vector lines and curves on the page.

You may see an Error Message if there are artwork elements or images on the layer selected when you launch ColorCut Pro. Therefore by drawing the cutting profile and the artwork graphic on separate layers you may simplify the process.

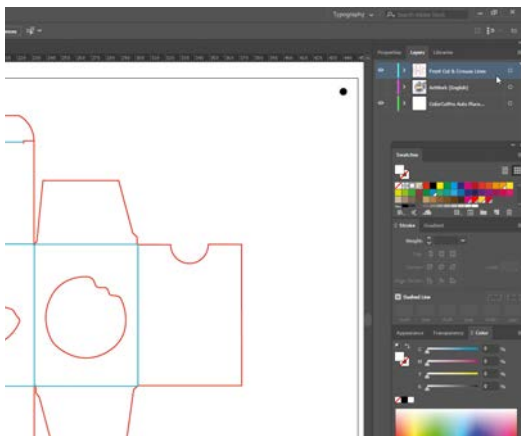
In this example the graphic layer is active; this drawing is ready for printing.



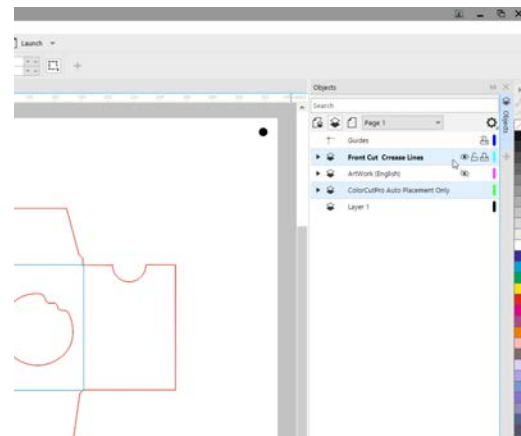
NOTE: Launching ColorCut Pro with this layer selected will generate an error as ColorCut Pro does not know how to handle graphics to a Cutter

Select the layer for the cutting

Ensure only the vector lines you wish to send to your ColorCut cutter are on the layer selected before launching ColorCut Pro. In the example below, the layer is ready for you to launch ColorCut Pro.



Adobe Illustrator



CorelDraw

NOTE: Although most of the screen-shots shown in the manual are from Adobe Illustrator, CorelDraw (as shown above right) uses object layers enabling you to separate the cut lines & artwork to different layers

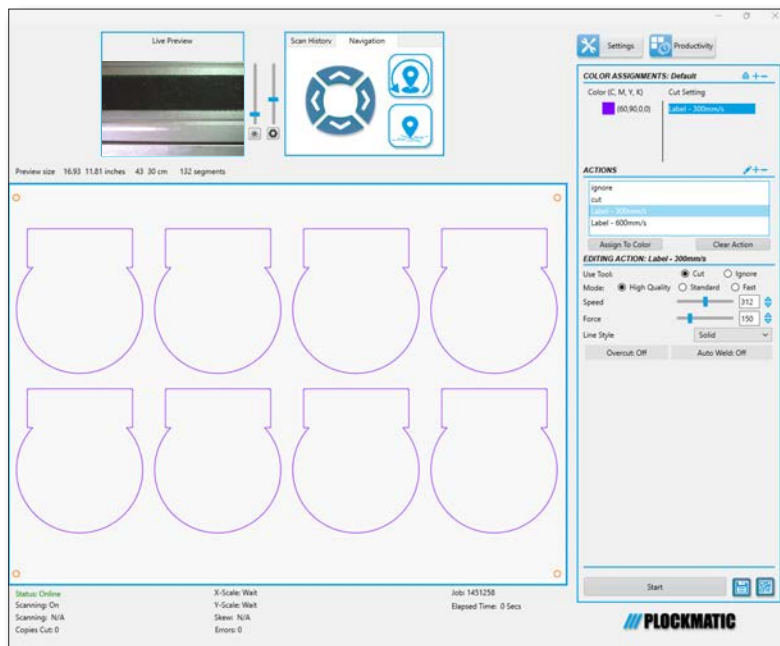
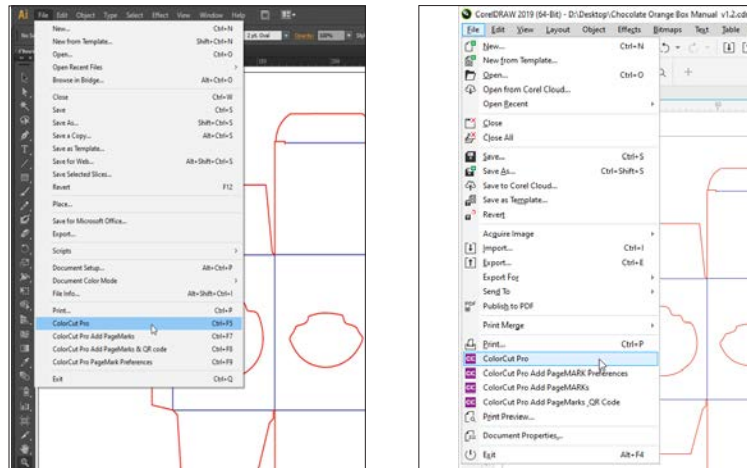
Continued on next page...

Direct Mode, continued

Launching ColorCut Pro (Direct Mode)

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After selecting the layer you wish to send to the ColorCut LC700 Cutter, select ColorCut Pro from the File menu. Both Adobe Illustrator and CorelDRAW can be seen below with the Cutline selected and then ColorCut Pro selected from the [File] drop-down menu.



The ColorCut Pro splash screen will briefly appear, then the main ColorCut Pro application will be displayed. You will see a preview of the cutting profile from the Currently Selected Layer in the window.

The ColorCut Pro - Production Studio application handles all the functions for the automation of the digital cutting process. When launching ColorCut Pro in Direct Mode, ColorCut Pro transfers the currently selected layer containing contour cut lines from Adobe Illustrator or CorelDRAW directly into ColorCut Pro.

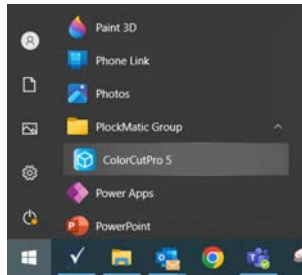
Specific parts of the software panel are dedicated to controlling how the different tools in your ColorCut are controlled and can be customized by action.

For an overview of the options available to set the proper cutting parameters, please see below:

Before cutting for the first time, ensure that you have set up your ColorCut in the [Settings] dialogue box. Prior to first use, ColorCut Pro must have the Sensor offset aligned and you must set the correct Blade offset.

Job Server Mode

There are 2 ways to launch the ColorCut Pro (Job Server) version of ColorCut Pro.



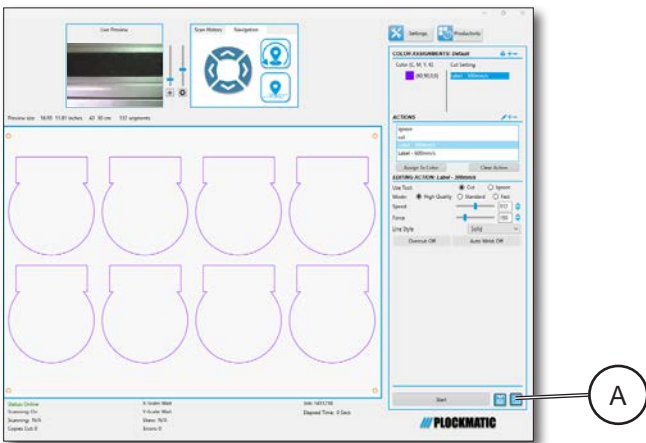
1. Open the ColorCut Pro (Job Server) from Start menu
 - Open the Windows [START] menu, and select ColorCut Pro from the Programs/PlockMatic Group folder*.
 - The ColorCut Pro splash screen will briefly appear then the main ColorCut Pro application will be displayed. In the preview window, an informational image will appear showing you where to position a job (if manually positioning). Once a job is retrieved by scanning a QR Code or by entering a job number, the preview of the loaded job will then be displayed.

*The folder path may alter.

1

2. If you are already running ColorCut Pro (Direct mode) then open from ColorCut Pro (Direct)

- If you already have ColorCut Pro (Direct) open, you can switch to Job Server mode, by clicking the QR Code icon [A].



Overview of the ColorCut Pro Main Screen (Job Server Mode)

The ColorCut Pro - Production Studio application handles all the functions for the automation of the digital cutting process. When launched in Job Server Mode, ColorCut Pro will load Cut Job files from the Job Server Library by either by scanning the printed QR code on the artwork or keying in the Job number (also printed on the artwork). No additional software is required to load or open the cut files.

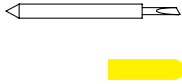

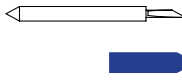

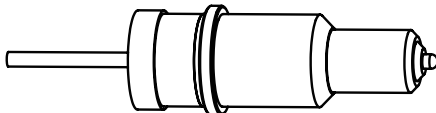
NOTE: Before cutting for the first time, ensure that you have set up your ColorCut in the [Settings] dialogue box. Prior to first use ColorCut Pro must have the Sensor offset aligned and set the correct Blade offset.

Cutter Blades (An overview of Blade types)

Your cutter comes with a selection of blades. The blades are packed in a foam packing material. In addition to this there is a colored rubber protective cap. The yellow caps indicate 30°, red caps indicate a 45° blade while the blue caps are 60° blades.

1 Caution: *Be careful when handling the blade as the cutting end is very sharp.*

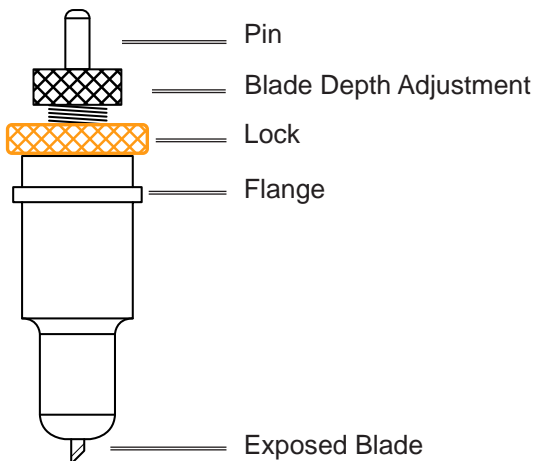
Blades are selected for different applications; a guide is shown below:

Name	Image	Angle	Blade Diameter	Features and Application
Blade		30°	1 mm (0.04")	For Film, very soft material, thin label material.
		45°	1 mm (0.04")	Typically for labels, stickers, and very thin paper/card
		60°	1 mm (0.04")	For hard media. The sharply angled tip provides a sharper point edge. Suitable for penetrating harder media types.
Circlip Knife		45°	1.5 mm (0.06")	Most packing board up to 450 micron. Circlip provides better pressure and improves blade direction changes on dense media. Suitable for cutting media from 0.25 (0.01") to 0.45 (0.02") mm thick
Pen Holder				Used at setup, to calibrate the offset between the Optical Registration Mark sensor (Red light).

* Maximum cutting depth is defined by the machine type and pressure available rather than the blade (which is 350 microns for the LC700)

The Blade Holder

1



Warning:

When handling cutter blades, be careful to avoid cutting your fingers or other parts of your body.

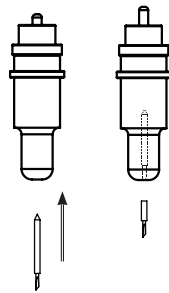
Replacing the blade

The blade is a consumable item and you'll always get the best quality cut with a newer blade. Please replace with a new blade when the cut quality reduces.

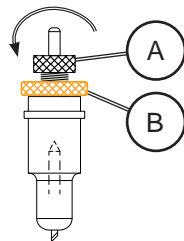
For Standard blades

(Without the circlip)

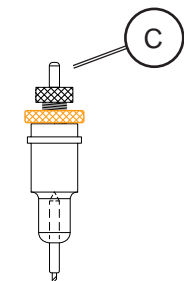
1. Push the blade into the bottom of the blade holder.



2. Adjust the amount of exposed (visible) blade tip to a suitable length by rotating the Adjustment depth knob [A] and then tighten the lock [B].

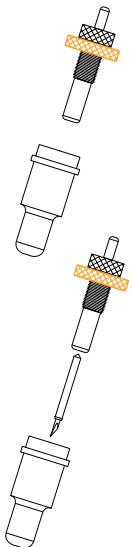


3. Press the push-pin [C] to remove the blade from the blade holder when replacing blade.

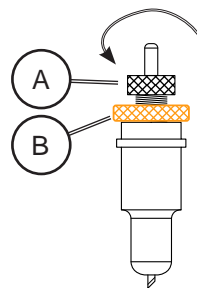


For CirClip Blades

1. Unscrew the lower (cover) part of the blade holder.



2. Insert the Circlip blade into the inner blade holder. Then replace the outer cover of the blade holder



3. Adjust the amount of exposed (visible) blade tip to a suitable length by rotating the Adjustment depth knob [A] and then tighten the lock [B].

4. Replace the blade by following the steps above

NOTE: You cannot push the pin as you do with standard blades as the circlip prevents the blade being removed.

Blade Adjustment

Blade Depth is a major factor in how well the machine cuts and along with the downforce / pressure, determines how cleanly the material cuts and how easy or difficult it will be to 'weed' the material. Too much blade depth is as bad as not enough.

1

NOTE: If you have enough blade sticking out to clearly see and feel the tip, it's probably too far out. Most new LC700 cutter owners improperly install the blade with too much of it protruding from the holder. Set it so that you can barely see the tip.

Then take the blade holder and manually drag it across a sheet of label that you wish to cut, making a box pattern or square.

Kiss Cut/Half Cut:

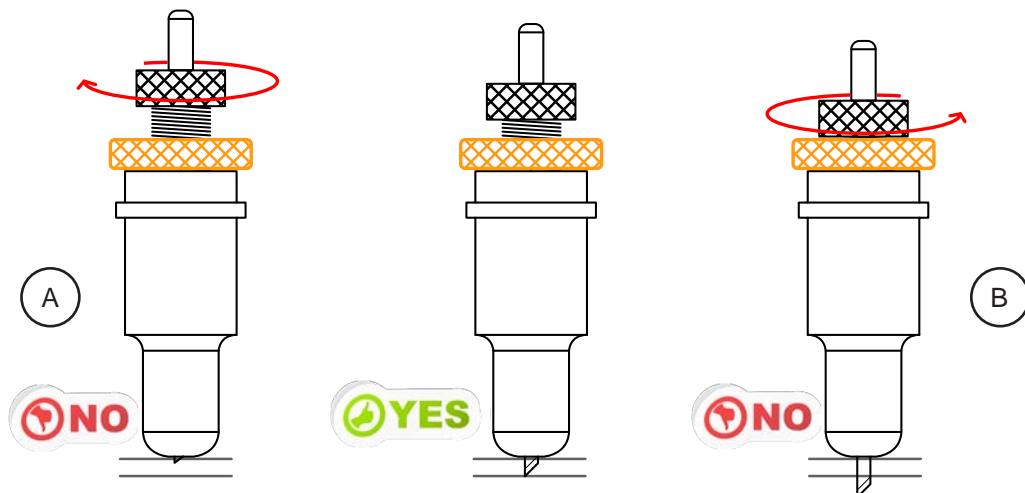
1. Lay your desired material on a hard work surface (not on a nice table in case you cut through the backing).
2. With the blade holder in your hand, press down and drag in a straight line.
3. Press down using a moderate amount of force.
4. Adjust the blade depth so that you are only cutting through the label material and the backing is left fully intact. If you are cutting/scoring the backing, you have too much blade exposed. If you are not cutting through the top layer, you do not have enough blade exposed.

Blade Force Settings

Alongside blade depth, using the correct blade force settings is crucial for optimal cutting performance. It's recommended to start at a low force setting and gradually work your way up to a value where you have achieved the desired effect.

The blade length is adjusted by turning the blade adjustment knob.

- To extend the cutter blade, turn the knob in the direction A.
- To retract the cutter blade, turn the knob in the direction B.



For more detailed instructions on adjusting the force settings See section "Force of the Cut"

Test Cut

The Test Cut function allows you to check your blade depth/force settings on your ColorCut LC700 cutter.

Warning:

Do not press [TEST CUT] until you have manually loaded a sheet of media into the friction feeder. The Test Cut function will draw a Square using Tool1, at the tools' current location. The Home position of the carriage is the far left of the cutter, if you press [TEST CUT] without moving the Tool Carriage, (i.e. whilst at the default Home location), then the display will show an error message (due to the fact the Test Cut function would require the tool carriage move left into the side of the cutter to perform a Test cut and this is not permitted). If you see this error message, Power off your cutter, and then power on again. Please follow the steps below to perform a Test Cut.

Press the [TEST CUT], to initiate the Test Cut function. The Test tab changes color to a solid blue color while the test cut is performed to show you have selected that option. The Tab button color will return to the standard grey color.

NOTE: The Test screen is very useful for checking your blade depth and the pressure/force used during cutting, prior to starting a job.

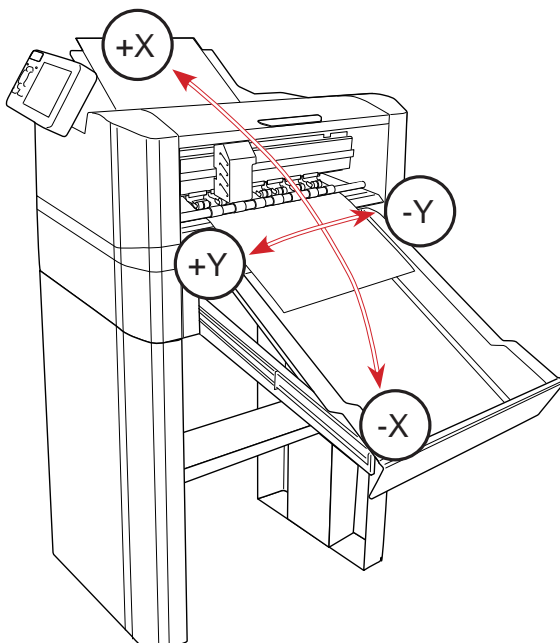
After the Blade tool has been loaded and you have manually adjusted the blade depth to a level you believe is correct. Load a sheet of your media, and perform a test cut, following the instructions below. Then adjust the blade and pressure accordingly. Checking and adjusting the settings for your specific media prior to a production saves time and eliminates waste.

A quick check and final adjustment of the blade depth & pressure can be made by using the Test Cut function. This is carried out by loading a sheet of media in from the Front of the cutter (this enables you to leave a stack of media in the feeding tray).

Moving the Tool carriage to a clear area on the sheet of media and then pressing the Test Cut function.



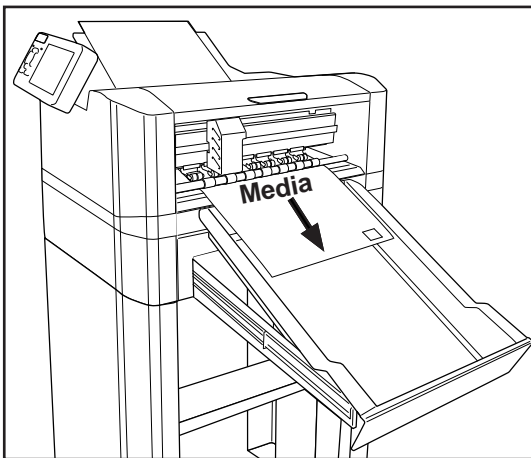
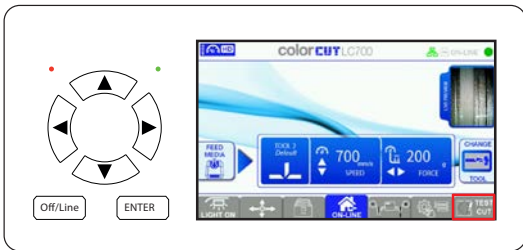
1. Press the [MOVE] tab button on the display.
2. Place a sheet of paper over the front paper sensor, and up to the Dual Grip feed rollers at the front of the machine.



3. Press the Up arrow button on the key pad to reverse the media feed rollers (Which will move media backwards (+X)) on the LCD panel.
4. Press the Right key (-Y) to move the tool carriage across the media into a clear area with approximately 25 mm of space (1") available in either direction around the Blade Tool's position.

Test Cut, continued

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5. Press [CUT TEST] button. The LC700 will now cut a Square shape using Tool1 (The blade).
6. The LC700 will then eject the media forwards so you can check the cut quality/depth and pressure.

NOTE: The minimum level of exposed blade will provide the best quality on sharp inverted turns and extend your cutting strip life. Too much Blade, will result in the Blade cutting through your media and cutting into the cutting strip. This will reduce your blade life, create poor quality cutting on sharp inverted turns and damage the cutting strip reducing the cutting strip life.

7. Check the made test cut on the ejected sheet, if the cut depth is not sufficient, (or it is too excessive) adjust the Force using the Left arrow and Right arrow keys on the panel until you can cut your material correctly.
8. If you cut your media with a pressure <math><100\text{ g}</math> then it is likely you have too much blade exposed. Stop, remove the blade holder and reduce the blade amount exposed and then test again.

Configuring ColorCut Pro

In addition to setting the cutter model upon first use, it is important to set/check the configuration settings for the software. Among the settings there are several that are important to understand to get the best results from your ColorCut cutter.

These are:

Knife Offset: A range of blades fit LC700 cutter and different blades may alter the way corners and shapes are cut. It is important that each time the blade is changed you set the correct Blade offset for the new blade fitted. This is because different sized blades turn on a different axis. Further information on Knife Offset can be found further on in this section of the manual. Nominally this value should be 0.25 for standard (Label) blades or 0.75 for Circlip blades.

Scan Targets: This tells the ColorCut Pro software that it should look for the registration PageMARKs and adjust the position and compensate the cutting lines for scale and skew errors on the printed sheet. This provides very accurate cutting in conjunction with images or artwork on the sheet. Default setting: Yes

NOTE: Alternatively it is also possible to cut sheets that are blank or do not contain PageMARKs. This can be useful when it is not necessary to register the cut line to a specific place on the media i.e. when cutting shapes out of blank media such as hearts from red card on Valentines Day, or Face Shields/Visors from Clear Polyester material.

When cutting without marks, the origin is manually set by the user on the cutter and it does not take into account skew, scale or mis-positioning of the sheet. (Not recommended if artwork is on the media). For this reason we normally recommend that a user should use 'Scan Targets', in conjunction with PageMARKs on their artwork.

Device Type: This adjusts the ColorCut Pro application's appearance and screens to match your cutter model. Ensure this is set to the appropriate model for your cutter.

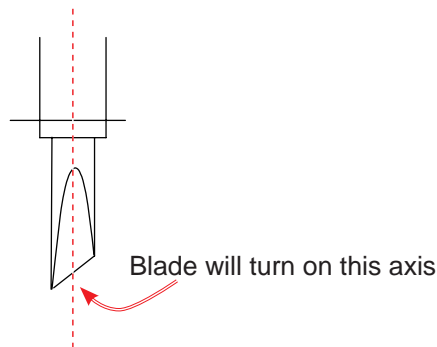
Output Device: This shows where your Cut file will be sent to. When the LC700 cutter is detected on the USB port this should show USB Device. If it shows File Output then the Cutter can not be seen, check your connection and that the cutter is ON-LINE and ready.

Vision Sensor Offset: Cutter is fitted with a Vison3 registration sensor to detect PageMARKs but this is in a different position to the centre of the blade. Therefore it is important to tell the software the 'offset' between the blade and the sensor itself. This can be manually set however to make life easier, the Auto Find feature will automatically it. It is important to have these values set for LC700 cutter otherwise you will not cut accurately. It is also detailed in the following pages for your reference.

Blade Adjustment

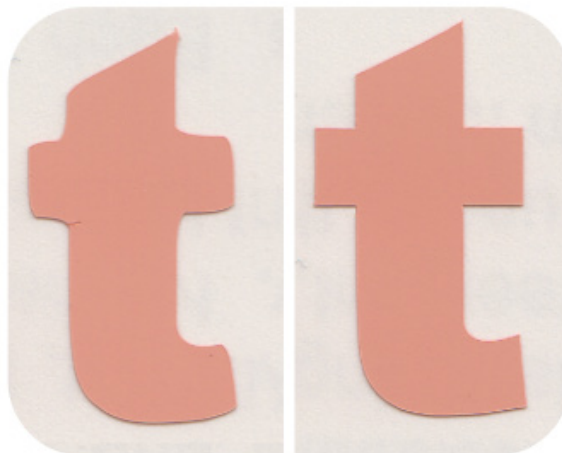
The ColorCut series of cutters use a contour-cutting blade (sometimes referred to as a 'drag knife') to accurately cut shapes. The blade revolves/rotates around its centre as the carriage moves following the cutting path and as the Tool Carriage changes direction.

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When the blade reaches a corner its axial centre (the point around which it rotates) arrives before the cutting point and unless there is some means of causing it to do so, the cutting part of the blade would never reach the corner and would start to turn as the cutter changed direction thus creating a radius instead of a sharp corner.

No Blade offset compensation



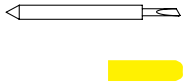



Knife Offset compensation applied

ColorCut Digital cut engines have a built in routine to manoeuvre the blade in a way that compensates for this, it is known as Knife Offset.

Setting this correctly and checking it each time you change blades is important because supplies a range of blades to enable the cutting of different media and various thickness's. Some blades have a thicker shaft than others. This means the distance from the blade's centre to the cutting point (the Knife Offset) will be different depending upon the blade. The Knife Offset value is used by the software to compensate for the distance from the point at which a blade cuts to the point around which it rotates.

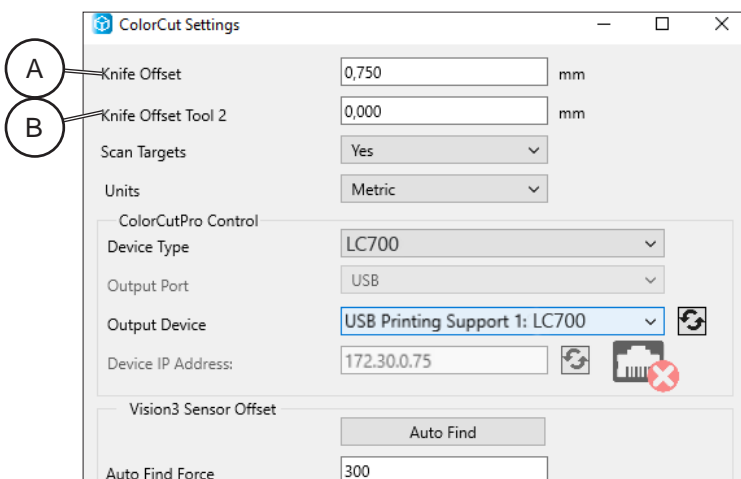
Choosing the Correct Blade for the Job

Each packet of Blades shows the Knife Offset on the front of the packet. Nominally the standard Yellow, Red and Blue blades that are 1 mm, use a 0.25 mm Knife offset, while the 1.4 mm larger Circlip blades use a 0.75 mm Knife Offset.

Name	Image	Angle	Blade Diameter	Knife Offset	Features and Application
Blade		30°	1 mm	0.25 mm	For Film, very soft material, thin label material.
		45°	1 mm	0.25 mm	Typically for labels, stickers, and very thin paper/card
		60°	1 mm	0.25 mm	For hard media. The sharply angled tip provides a sharper point edge. Suitable for penetrating harder media types.
Circlip Knife		45°	1.5 mm	0.65 - 0.75 mm	Most packing board up to 400 micron. Circlip provides better pressure and improves blade direction changes on dense media. Suitable for cutting media from 0.25 to 0.4 mm thick

* While technically the blade can cut 1.0 mm thick material, the force required can vary significantly based on material density therefore on typical card based stocks we only recommend up to 350 micron board for optimal results.

NOTE: Remember to check and set the Knife Offset when changing blades.



1. Click the [Settings] button on the main ColorCut Pro screen to display the ColorCut Settings Dialogue box.
2. Enter the value in Knife Offset text field [A].
3. Click [OK] to save the settings.

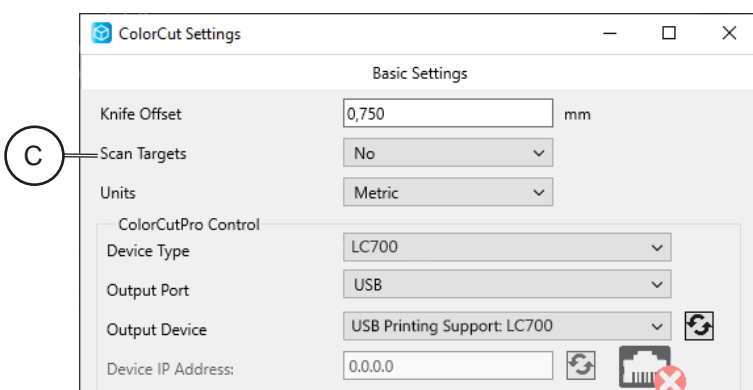
Scan Targets

When printing sheets, the image may not always start in the same position on each sheet. Some printers may also scale or distort the image. Additionally, if you do not place your sheets perfectly square on the cutting table, accuracy issues can occur.

If the image starts in different positions on various sheets or is distorted by printer, the cutter may not cut according to the printed design.

To fix these issues and help position sheets quickly on the cutting bed, the ColorCut Pro software can read PageMARKs added to printed sheet. This allows it to precisely locate the starting point of your artwork. The software uses the positioning data from the PageMARKs to correct any scaling or skewing of up to 3 mm (0.12") from printer, or up to 5 mm (0.2") rotation from sheet placement. ColorCut Pro then automatically adjusts the cut lines to compensate, ensuring precise and accurate cutting for all jobs.

However, when cutting shapes that do not need alignment (such as blank media), the cutter can be set to disable the scanning of registration targets.



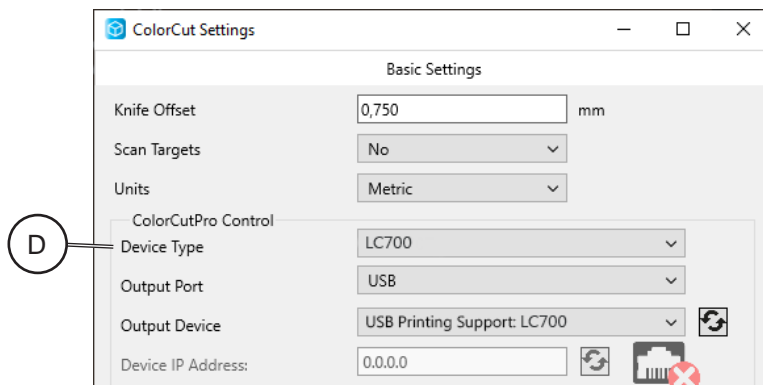
1. Set Scan Targets [C] to Yes to ensure the PageMARKs are scanned and any positioning or printing errors are corrected (this is the recommended mode).
2. Set Scan Targets [C] to No for the alternative mode of operation where the origin is set manually using the cutter control panel and the PageMARKs are not scanned. (This option is used for cutting blank sheets where registration or alignment of the cut to the image on the sheet is not important).

NOTE: Positional accuracy cannot be assured if you set the cutter to not scan for PageMARKs.

The graphics should be designed in accordance with the guide in this manual on PageMARK creation (See section "Registration Pagemarks"). Only the specific PageMARKs detailed will provide origin reference, scale, skew and rotation references for the ColorCut software so it can adjust your cutting line appropriately for accurate cutting.

Device Type

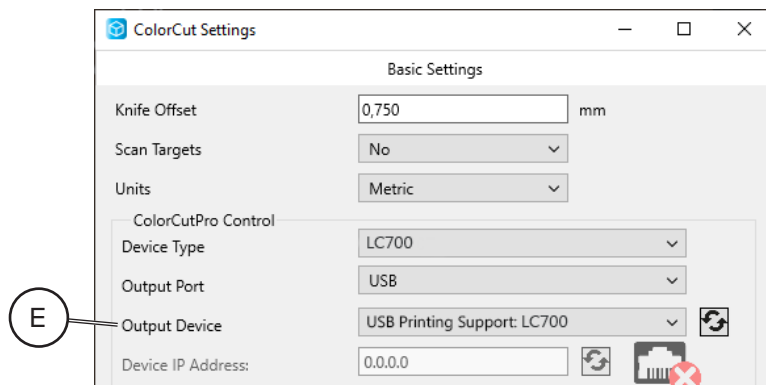
This setting shows the current output type of Cutter connected. The main screen and controls for ColorCut Pro will change based upon the Device Type [D] selected and not all features will be available as detailed in this manual unless you have selected the cutter type to match your Model.



For the LC700 Y-Axis sheet cutter with an auto-feeder, set the Device type to 'LC700'.

Output Device

This setting shows the current Output Device [E] connected. When the ColorCut LC700 is connected this should read 'USB Printing Support: x', where 'x' is your cutter type, or 'Ethernet Direct connect' (If it is ON-LINE).



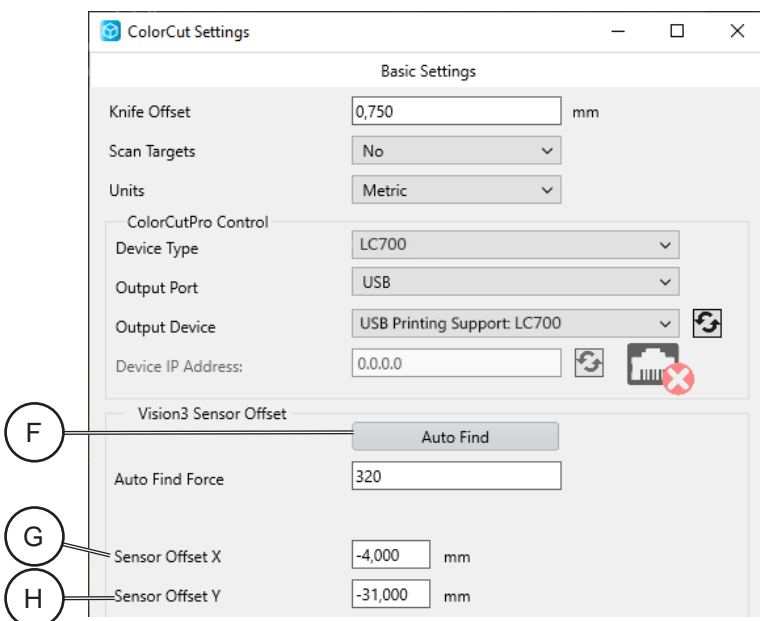
If the ColorCut Pro software cannot sense the LC700 cutter on the connection of your computer, then this will show: "File Output".

In such circumstances, check your connection to your computer and power cycle LC700 cutter. (Ensure it is off for 45 seconds to enable the cache to flush).

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Sensor Offset & the Auto Find feature

Sensor Offset is critical for accurate cutting. It tells the ColorCut Pro software the difference in position between the actual Blade on the cutter and the Vision sensor that reads the PageMARK positions. This only needs to be set once and once set it does not change but it is very important that this is set prior to cutting any jobs.



- The Sensor Offset can be set automatically by using the Auto Find [F] feature (detailed in the next section)
- or it can be manually entered or adjusted by editing the Sensor Offset X [G] text field (looking from the control panel - left to right across the bed) or the Sensor Offset Y [H] text field (Back to front).

Continued on next page...

Auto Find - Setting the Sensor Offset to the Blade, continued

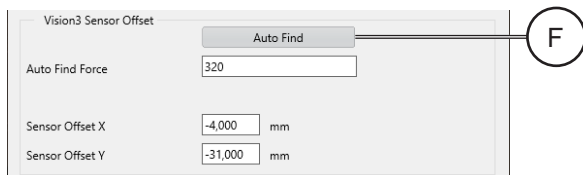
NOTE: This section is only for reference; this procedure is already completed during installation (Section 1.7.2. in Installation Manual)

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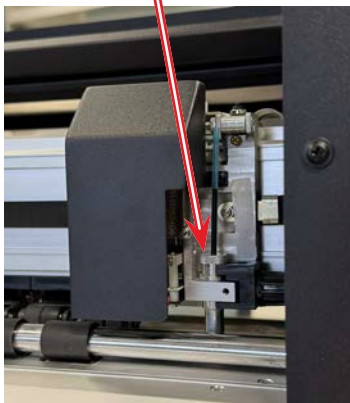
The ColorCut Cutter includes a Vision3 ARMS system (Automatic Registration Mark Sensor). The Vision3 ARMS sensor uses a high quality CCD camera to automatically detect Registration Marks (PageMARKs), enabling accurate cutting using ColorCut Pro. Being able to automatically detect the PageMARKs enables ColorCut Pro's sophisticated algorithms to compensate for any scale or skew errors during printing or any positional errors, adapting the cutting lines accordingly. In addition to reading PageMARKs the Vision3 camera can read job QR codes and provide live video echo to show progress during cutting.

The Vision 3 ARMS sensor is mounted next to the cutting blade holder and the distance between the centre of the blade, and the centre of the Vision3 camera sensor (known as the sensor offset) must be compensated for to ensure accurate cutting.

Before you use the ColorCut Pro software for the first time you will need to calibrate the Sensor Offset so your software knows how to adjust the difference between the cutting blade and the actual optical sensor.

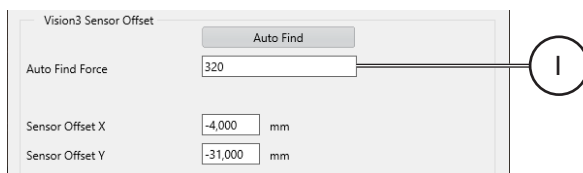


Calibration pen



The Auto Find [F] feature calibrates the offset automatically. This is achieved by using the Pen Calibration Tool. The pen tool is used to draw a circle shape, the Vision3 ARMS sensor then moves over the shape, scans to locate the shape and determine the exact centre point of the circle shape. The ColorCut Pro software then calculates the distance the Vision3 sensor is offset from the centre of the cutting tool automatically.

1. Place the Calibration Pen Tool in Tool Holder.



2. Set/Check the appropriate pressure for the Calibration Pen Tool. (Not too much pressure or you may break the pen).

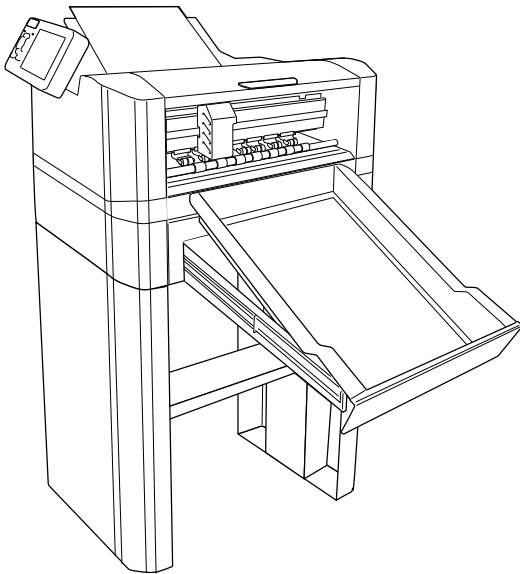
Check the AutoFind Force [I] pressure is set to between 200 - 320 gms of pressure.

Recommended pressure is 220 gms. For very thin paper it should be reduced.

NOTE: Too little pressure and the pen will not write.

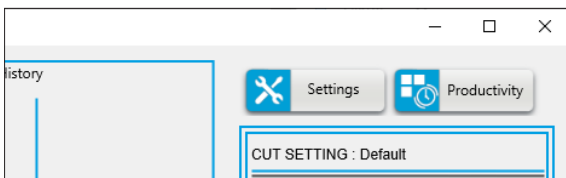
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Auto Find - Setting the Sensor Offset to the Blade, continued



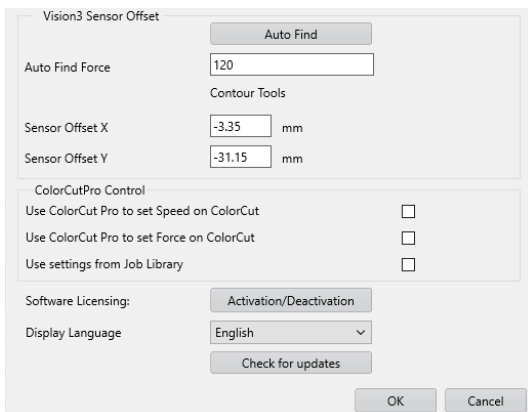
1. Place a blank sheet of paper in the feeder.
2. Connect cutter to network using either Wi-Fi, Ethernet or USB.
3. Launch the ColorCut Pro application from your computer.

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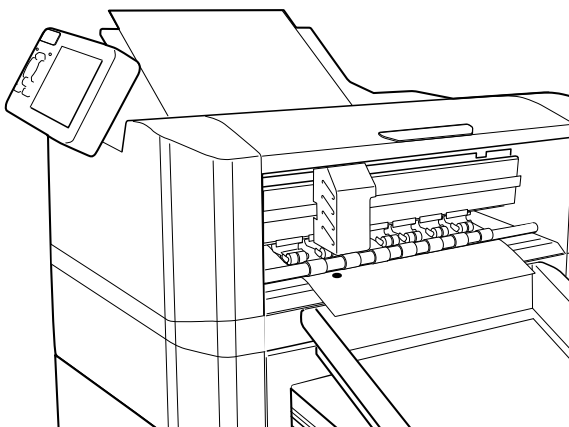


4. In the main ColorCut Pro application screen, click on the [Settings] button. The settings dialogue box will appear.

NOTE: If not done yet, make sure to have the machine set to Online mode.



5. Click the [Auto Find] button, a message will appear asking to place Calibration pen and Auto Find test sheet in the feeder, click [OK].

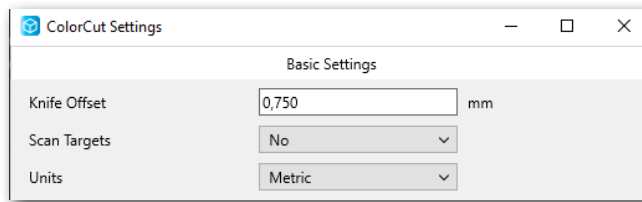


6. The cutter will use the Pen Calibration Tool, to repeatedly draw a spiral pattern to simulate a registration mark. It will then move the Vision3 sensor over to find the mark and automatically enter the values into your Sensor Offset X and Y settings. Once completed you will see a confirmation message.
7. You can now close this window, the calibration for ColorCut Pro is now complete.

NOTE: If you do not set the X and Y Sensor offset values (either using the Auto Find function - or manually) then the cutter will not cut accurately. Please ensure you have done this. However once done, this should not need to be repeated.

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Units of Measurement

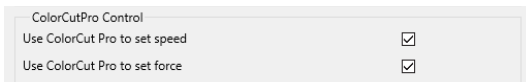


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ColorCut Pro can be operated in Metric (mm) or Inches (Imperial). Use the Units control to set the measurement units to your preference.

Choosing where to set Speed and Force

ColorCut Pro allows you to define the Speed and Force Settings for each which is important especially if you wish to cut with different speeds in one job.

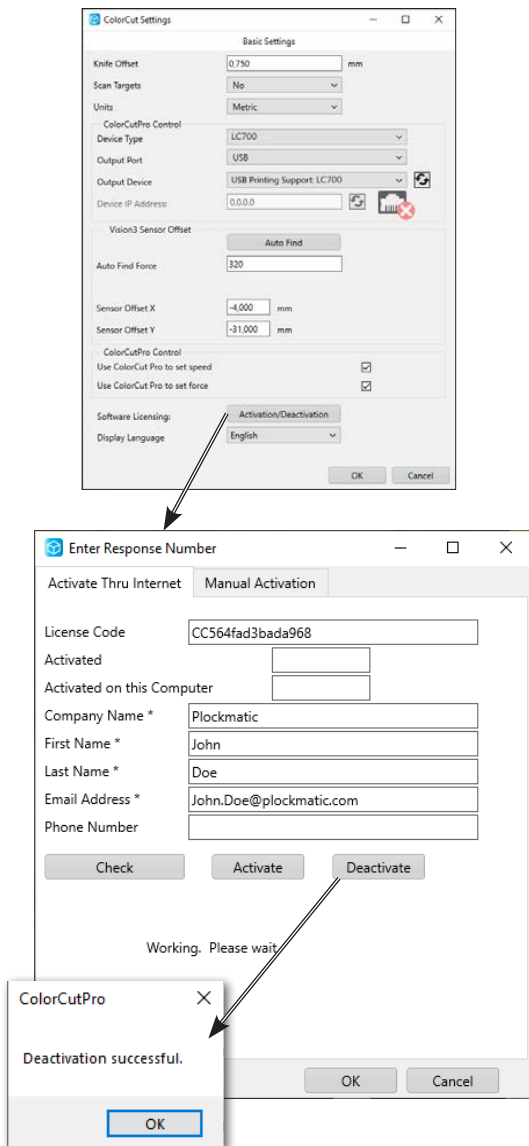


Large sweeping curves may be cut quickly however complicated delicate shapes can be drawn using different colored line so you can associate a different speed for each line. To achieve this

the speed and force settings must be controlled by ColorCut Pro. Ensure that the check boxes are enable to ensure ColorCut Pro can control your cutters speed and force.

NOTE: If you wish to ignore the Speed and Force Settings set under ColorCut Pro's options, unchecking these boxes will stop the Speed and Force settings being sent to your cutter. When these options are not checked all artwork lines being cut will be controlled by the settings shown on the LCD panel of the Cutter itself. You can change the values by selecting the Tool directly on the LCD panel and using the Hard keys to adjust speed or force as shown on the panel.

Activation/Deactivating ColorCut Pro License



ColorCut Pro is activated and licensed through an online license server. You receive a license capable of 2 activations. One is for your ArtWork PC, one is a remote cutting computer (in case you do not wish to use your design PC (or the same person) to perform your cutting tasks. The MAC client does not require a license.

To move ColorCut Pro to a different computer, you must first deactivate it on your current computer before installing it on the new one.

NOTE: If you do not deactivate your ColorCut Pro license, the online activation server will reach its activation limit for your license code, preventing you from licensing a new computer. As a result, ColorCut Pro won't run. To resolve this, either deactivate the previous installation or purchase an additional license.

Deactivating ColorCut Pro

After clicking the [Activation/Deactivation] button, the license activation screen will appear. To deactivate your license, click the [Deactivate] button. This will connect to the online license server, deactivate the license on your computer, and free up a license code for reactivation on the same or another computer.

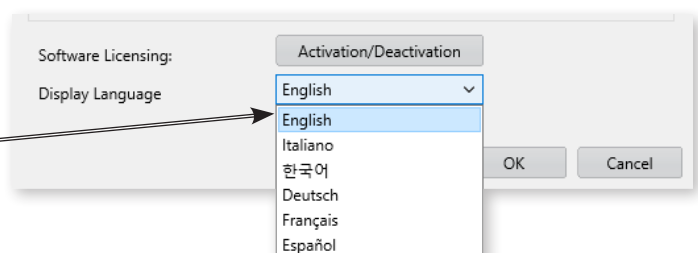
NOTE: If an internet connection is unavailable, you will not be able to deactivate your license until an online connection is restored.

Display Language



ColorCut Pro is set to English by default. To change the language, go to the settings screen and select your preferred language from the drop-down menu at the bottom.

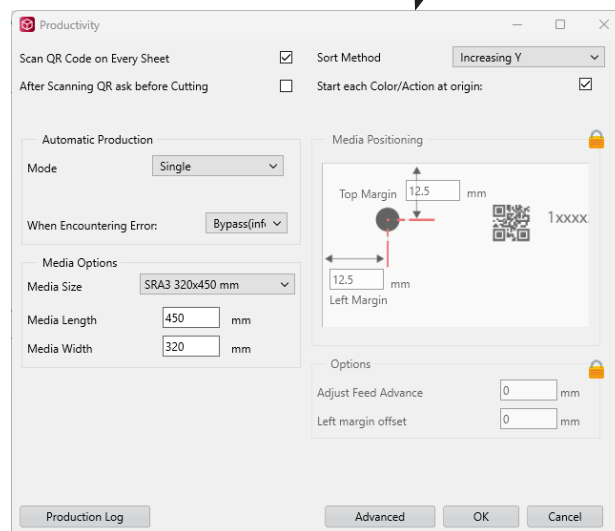
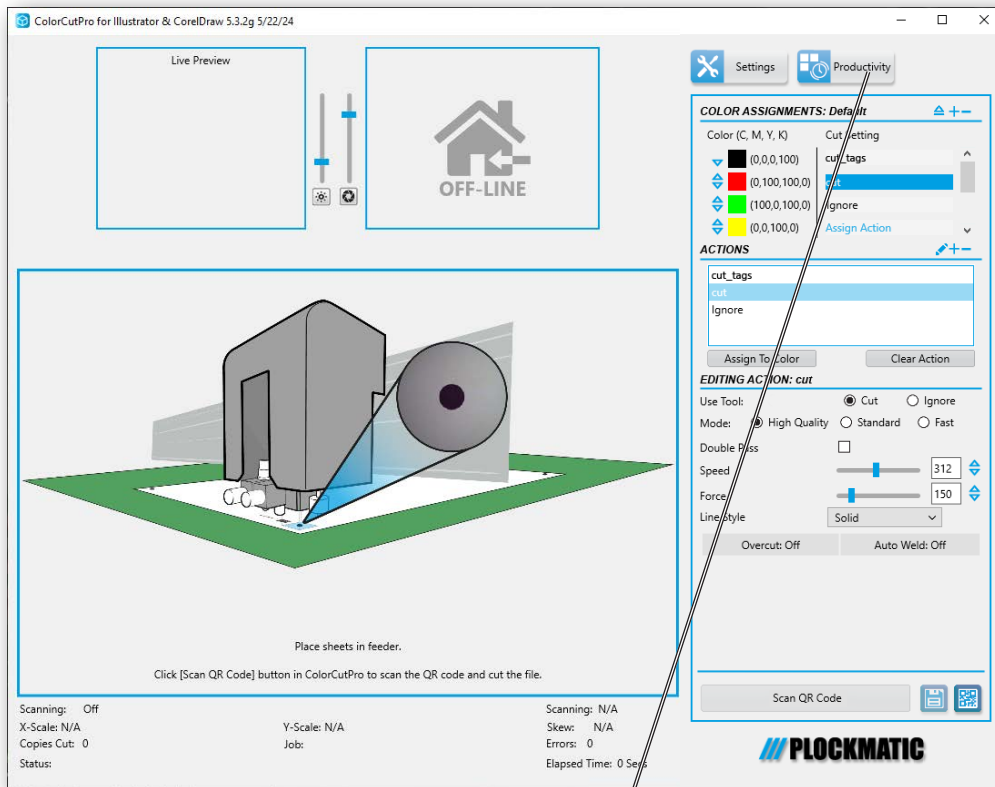
After selecting the new language, restart ColorCut Pro to apply the changes.



Productivity Options

In addition to the configuration settings there are additional settings that can influence your productivity and furthermore enable automated batch production. These settings are all grouped under the [Productivity] menu.

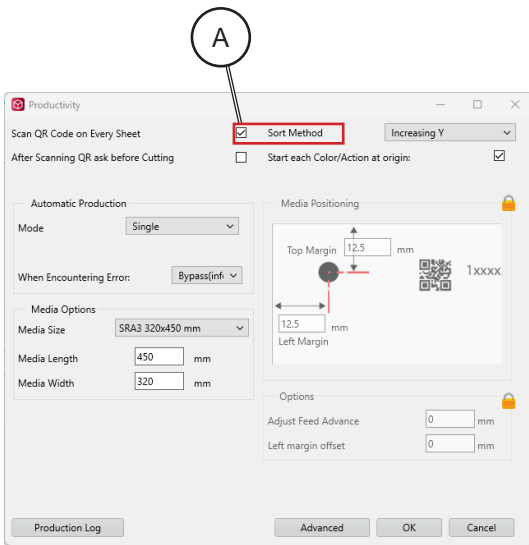
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The 'Sort Method', 'Scan For QR Code on every sheet', 'After Scanning QR Code ask before Cutting', Automatic Production control: 'Mode', 'Copies' and 'Media Size' Control options are available at any time and apply to all jobs when the cutter is set to Media Positioning - AutoSheet Feeder.

Sort Method

The Sort Method setting [A] changes how the cutter moves from the end of one cut to the beginning of the next.



The ColorCut Pro software can operate in 6 modes:

1. **None:** No sort to the cutting is employed and the software will cut in the order it read the lines into the application.
2. **Diagonal:** Aimed to reduce cut times based on the principle that while moving between cuts, both the X, Y motors may be used. If both motors are used the travel speed is higher. Diagonal sort gives weighting to close movements that engage both motors. (Sometimes but not always producing diagonal travel paths).
3. **Increasing Y:** Cuts all lines starting from the top of the sheet, working down the sheet (along the Y axis only).
4. **Increasing Y (optimised):** A combination of Increasing Y and Closest point sort methods. It will check the closest 4 objects for the most efficient start position then honours increasing Y.
5. **Increasing X:** Cuts the longest straight cut first on the X axis only. A predictable cutting sort method but not always the fastest.
6. **Closest point:** The order of the cutting is sorted such that the ColorCut will cut closest to 4th PageMARK first. At the end of each cut, ColorCut will continue cutting from the next closest point trying to avoid long circuitous travel paths.

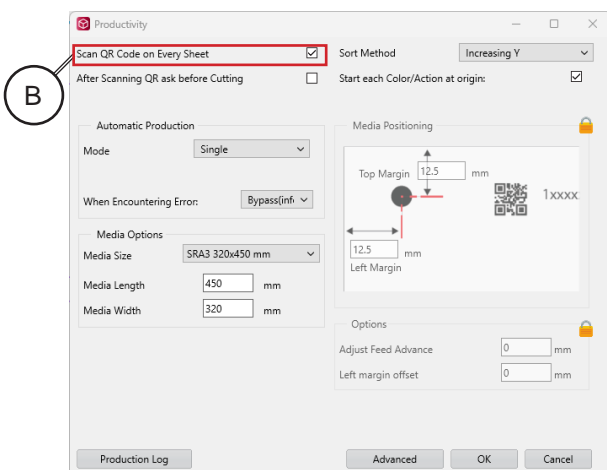
There is no wrong setting; however Increasing Y is best for most profiles.

However if you are experiencing a peculiar cutting problem, changing between the options can change the direction of the blade and may help eliminate issues.

NOTE: Typically it is recommended to use the sort method “Increasing Y” for optimum output path.

When using Increasing Y, it is recommended to ensure ‘Start Each Color at Origin’ is checked. If more than 1 color/action is used, this will ensure ColorCut Pro to start the cut sequence at the top of the sheet.

Scan for QR Code on every sheet



This is a useful feature which allows users to check the orientation of the sheet using rear QR code.

ColorCut will load the job to cut as follows:

- In Direct mode, by using the selected/open file in Illustrator or CorelDRAW
- In Job Server mode - from scanning the QR Code or from the job number keyed.

When ‘Scan Qr Code on every sheet’ box is checked [B]; after cutting the first job the LC700 will automatically eject your sheet and ColorCut Pro will clear the job in the preview screen the load the next sheet of media in the auto-sheet feeder and scan the QR code to check which cutting file should be used.

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Scan for QR Code on every sheet, continued

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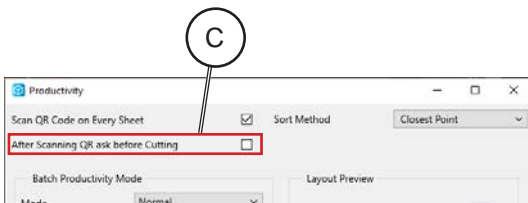
In **Job Library mode** this function is recommended and can very useful when different/mixed jobs are placed in the auto-sheet feeder, as each cut file will be retrieved automatically. In addition by scanning each QR Code, ColorCut Pro, will detect if a sheet has been accidentally loaded in the wrong orientation, or rotated around 180 degrees, and automatically rotate your cutting file to match the way you loaded the sheet. This ensures each sheet is cut correctly, even if different jobs have been mixed in the auto-feeder, or if you loaded the sheets the wrong way around. (This only works if you use QR codes on the sheets).

When operating in **Direct Mode** (cutting directly from the application without QR codes on the printed sheet). You should disable 'Scan QR Code on every sheet' [B] then after cutting the currently loaded job ColorCut will keep the current cut file loaded and cut the same file again on the next sheet loaded by the auto-sheet feeder. Otherwise you may need to return to your Graphics Application and resend the file from the Graphics application.

You can also retrieve jobs by manually keying in the job number (printed at the end of the sheet). If you plan to cut multiple sheets of the same job, you may wish to manually enter the job number and remove the step of scanning the QR Code (which can save a small amount of time. However, if you skip reading the QR Code on each sheet, while cutting time is reduced by approx. 1/2 sec per sheet (which is the length of time required to scan the QR Code) - ColorCut Pro will no longer recognise if Mixed Jobs are loaded into the feeder (or if a job is accidentally placed in the wrong orientation).

NOTE: If you enable 'Scan QR Code on every sheet' [B] and the sheets do not contain QR Code codes, the LC700 will error and the cutter will stop. Therefore it is only recommended to enable the scanning of QR Codes if you have placed QR Codes on each sheet.

After scanning QR Code ask before cutting

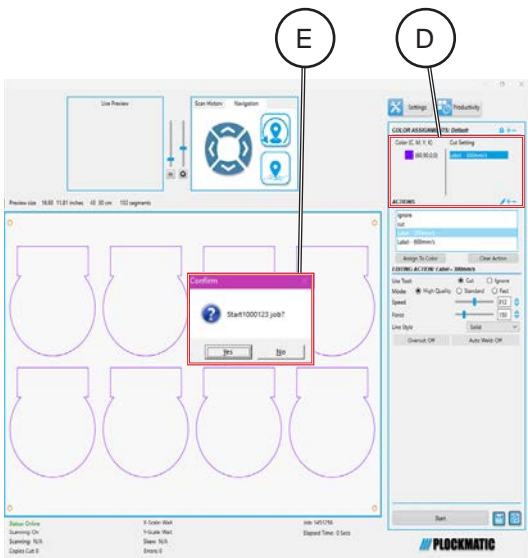


ColorCut Pro performs the actions (i.e. cut, ignore, perforate) according to the line colors which you specify.

It will remember the previously used assignment of line colors in relation to an action i.e. if the last job you cut you had previously set Red to Cut, then when the next file is opened using Red or Blue, ColorCut will assume you wish to continue to use that Color/Action assignment unless you change it.

When 'After scanning QR code ask before cutting' [C] is enabled then after scanning a QR Code, ColorCut Pro will read the Colors used within your cut file design and automatically assign each color to the last action (i.e. cut) it used for that color (Or set it to none, if that color has not been used before) then wait for you to confirm the assignment is okay before cutting the job [D].

When loading a job for the first time, this may be useful as you may not have correctly assigned the right action for each line color [E].



However, if you have previously cut a job (i.e. a long production) or you typically use the same action for each color in all your jobs then you may not wish to see this dialogue box.

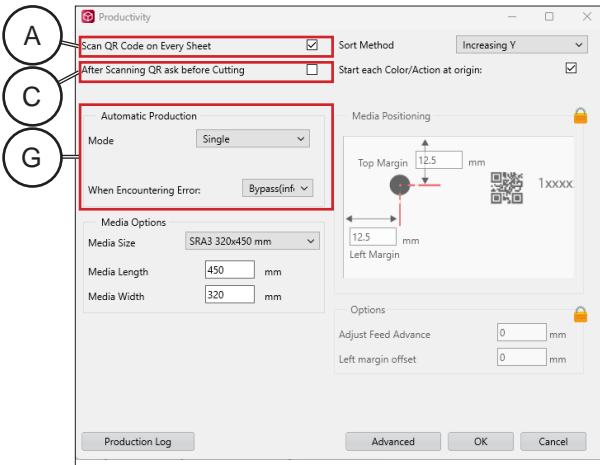
To prevent this message appear after each sheet is loaded and scanned Uncheck the tick box next to 'After scanning QR Code ask before cutting' [C].

NOTE: It is recommended to do a single manual test cut prior to an production run. For simplicity and optimum efficiency, you should try to design your jobs using the same line colors. If you have performed a test cut and previously defined the action for each colored line, or consistently use the same action for each colored line (i.e. Red = cut), you can disable this warning to ensure uninterrupted cutting of your production jobs.

Automatic Production Options

The Automatic Production [G] section in the Productivity dialogue box enables you to change between production modes.

The options are:

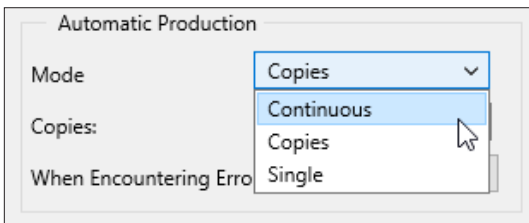


Copies Mode

Displays a new dialogue box in the area, allowing you to enter the number of copies to cut.

Single Mode

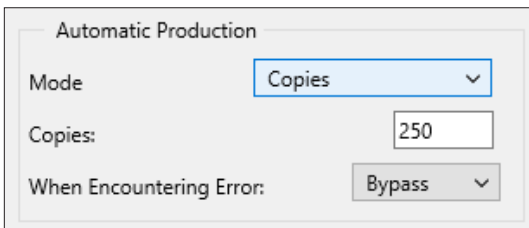
The LC700 will load a single sheet of media and cut the media accordingly. (Will hide the Copies entry area.)



Continuous Mode

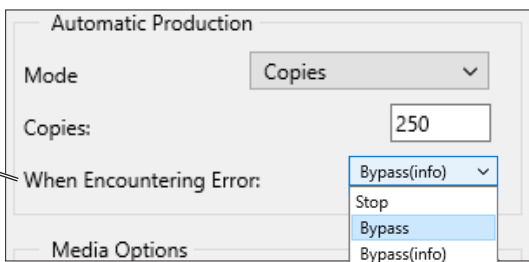
Continues to cut all sheets in the feeder until the feeder is empty.

Clicking on the drop down selection next to 'Mode' will allow you to select the production option.



Copies Entry

When the Production 'Mode' is set to Copies, enter the number of copies you would like to cut into the Copies Text Field.



Error handling

Another important item to consider is what should happen if an error is encountered. This can be a mis-feed so the target was not read, an error reading a QR code, or a blank sheet mixed in with your cut jobs.

The error handling is set within the option 'When encountering an Error' [I]. The recommended action is to Bypass the error. When this is set and after an error is encountered, there is a short pause then the sheet will be ejected and the production process will continue.

The alternative option is to Stop which will halt production and leave the sheet in the LC700. You will need to remove the sheet and then start production again after resolving the error. For the most efficient and easiest production, use a combination of the options in the Production dialogue box. i.e.:

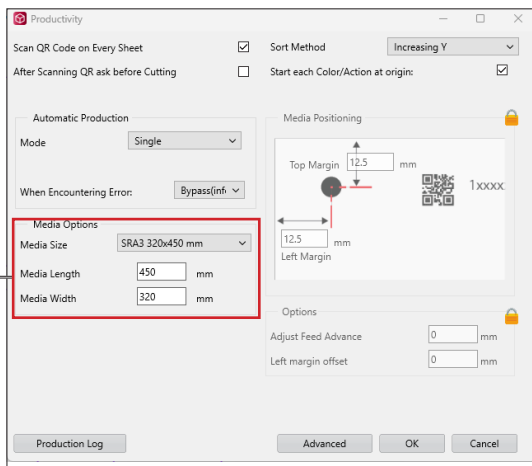
- Enable the Scan QR code on every sheet [A];
- Disable the After Scanning Ask before cutting [C];
- Set Productivity mode to Copies or Continuous;
- Set When Encountering an Error to Bypass [I].

This will cut the number of jobs you require without requiring user intervention or stopping and will reject/bypass any failed sheets.

Media Options

1

H



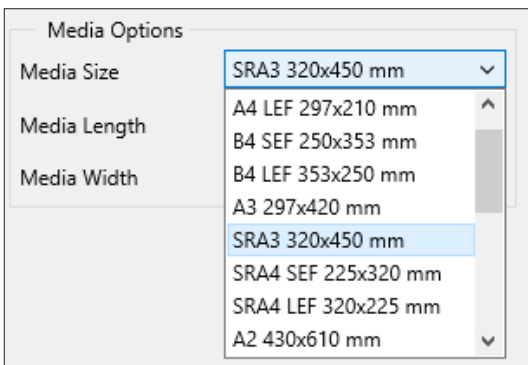
The Auto-Sheet feeder, uses self centering media guides, this means the edge of the media will be located in different positions depending on the media size you have loaded.

Therefore, Media options is one of the most important areas to set within the Productivity settings screen.

ColorCut Pro uses the media size set here to correctly calculate the position for the Vision3 sensor to scan for the registration PageMARK (and QR code - if applicable).

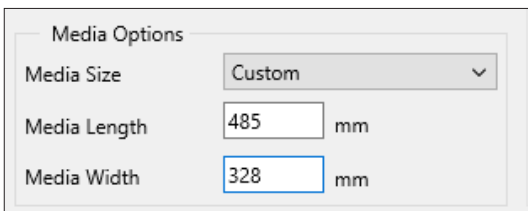
NOTE: As different media sizes will result in the edge of the media being in a different (and therefore your registration PageMARK) location, it is very important to ensure you set the Media Options correctly to match the media size loaded in the Auto-Sheet Feeder.

Media Size



The most popular media sizes are listed under the Media Size drop down menu.

Typically, you only need to select your media size here. Selecting a media size within this menu, will automatically populate the Length and Width fields for your media.

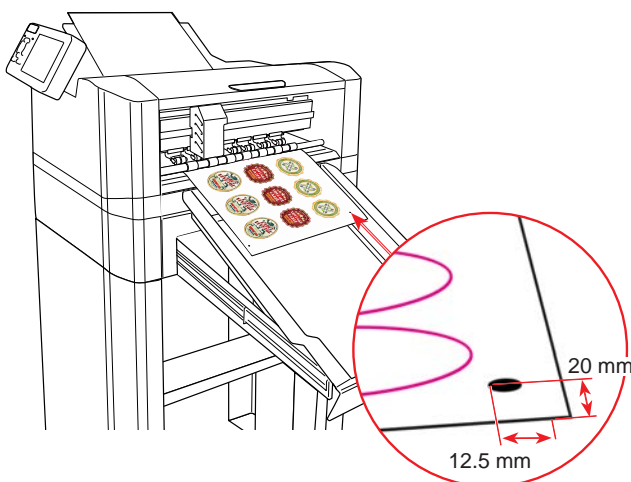


However, your media size is not listed in the Media Size list scroll to the base of the list and select 'Custom'. Now enter:

Media Length (the distance from the front of the media to the position of the backstop in the media feeder)

Media Width (the left to right distance across the mouth of the cutter).

Position of PageMarks on Media



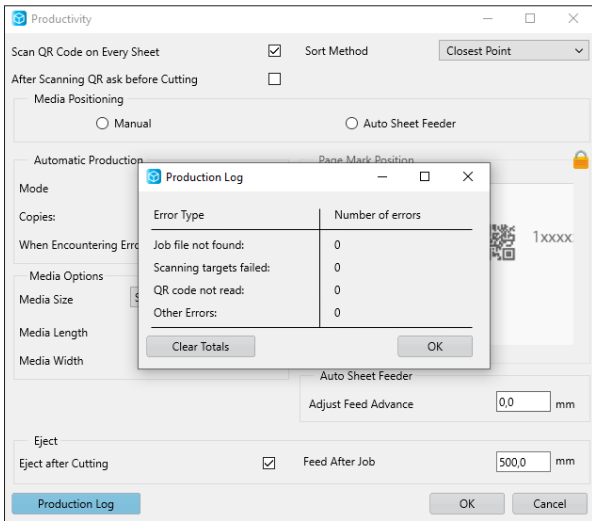
PageMARKs are applied during the design stage, in your Graphics Application.

It is important that you followed the recommendation to set ColorCut Pro to place PageMARKs relative to the Page Size (See section "Registration Pagemarks") which keeps PageMARK positioning consistent across all of your designs. We also recommend you use the same margins, to avoid having to frequently change settings.

The 1st PageMARK, is located on the lead edge of sheet at the offset/margin you specified when applying the PageMARKs (See section "Registration Pagemarks" and "Automatically Adding Registration PageMARKs")

Production Log

The LC700 has two different log's that provide feedback on your cutting.



To view the basic log, click the [Production Log] button at the bottom left of the Production screen.

Here you will be able to view a summary of any errors during cutting. i.e. Jobs not found, QR codes not read and Target Scanning errors.

The summary totals can be cleared, by clicking the [Clear Totals] button.

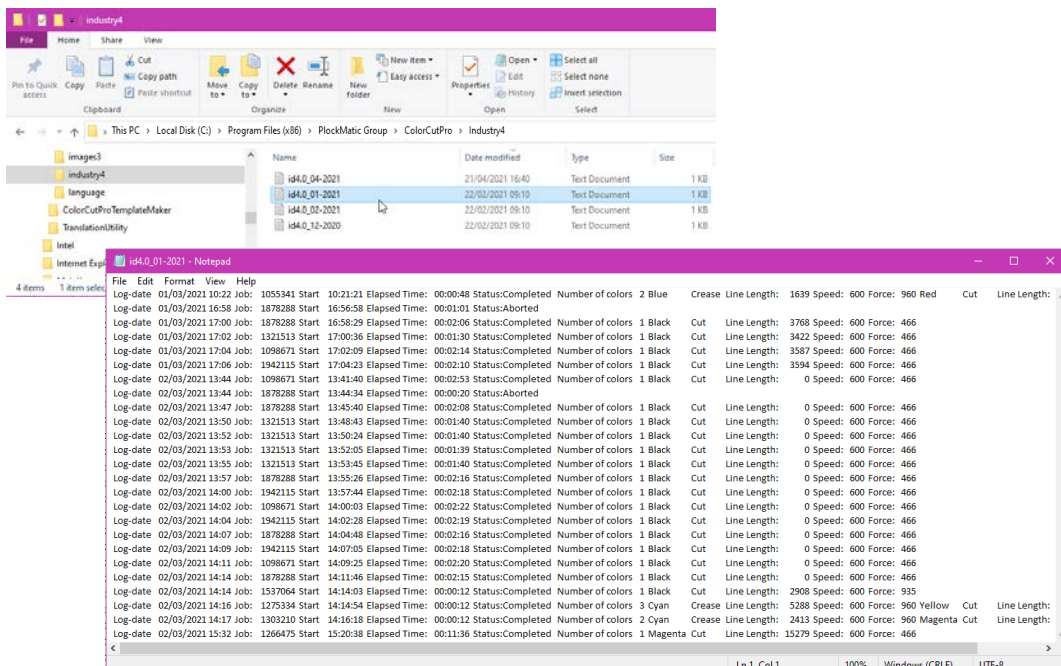
A more advanced log can be generated by enabling the Generate Industry 4.0 Log file check box.

The Industry 4.0 log is an external log file (Tab delimited) that is generated as each job is output, including identification of the Job ID, the time released, the status of the job, number of colors within the job, along with the color used, tool applied and length cut for the specified tool (example shown)

The Industry 4.0 Log may be required by EPOS systems and certain JDF systems. To find the location of the output data file, for your EPOS, JDF system (or third party application) navigate to:

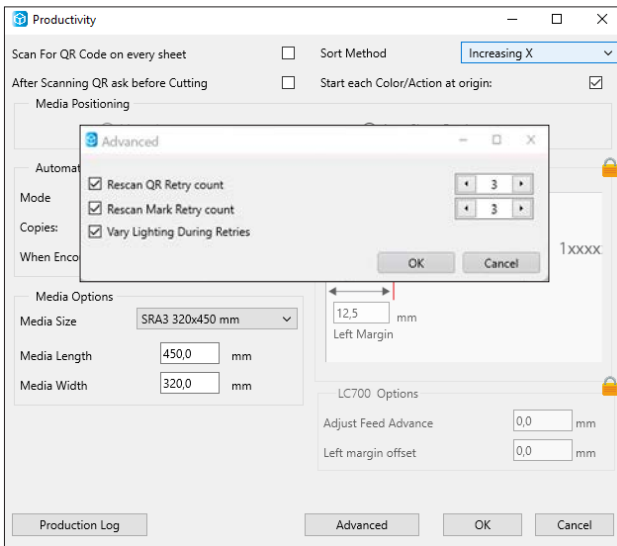
C:\Program Files (x86)\PlockMatic Group\ColorCutPro\industry4

The file path may alter.



Advanced Productivity options

The LC700 uses a sophisticated image processing system to identify the PageMARK registration targets (and QR codes). Designed primarily to read Black PageMARKs on White media the advanced Vision3 sensor, will auto invert images, to additionally enable the reading of White PageMARKs on Black Sheets.



The Vision3 image scanning system is designed to determine the DMIN vs DMAX of the Mark versus the background area (Using edge detection based on maximum dynamic range contrast point and determining the centre point).

You can widen the range of media that can be scanned by adjusting the back lighting system (See section “Brightness/Illumination Control”) on ColorCut Pro’s main interface panel.

However, the [Advanced] button within the Productivity Dialogue box provides the user with some extended options and automated options to assist scanning of registration PageMARKs and QR codes that increases the scanning tolerance and helps scan a wider range of media.

Click the [Advanced] button to display the Advanced scanning options.

Checking the ReScan QR Retry Count check box, will instruct the LC700, to ReScan both Registration PageMARKs and QR codes as set (the applicable range is 1 - 5 times). This can be useful on some colored media, metallic or foiled media and porous media such as Inkjet Printed rice paper. However note, this may fractionally reduce productivity as the Scanning of each PageMARK will take fractionally longer (approx 1.5 sec more per target).

Checking the Vary Lighting During Retries check box, is very useful, as this will pulse the background lighting from low to high during the mark scanning (then returning it to the previous setting). This avoids the need for the user to adjust the Back lighting control on the main ColorCut Interface, and enables automation of a range of lighting conditions during the PageMARK scanning and QR code scanning.

While both of these functions can widen the tolerance for different media that can be scanned and read, it should be noted that each additional step will extend the time required for scanning and reduce productivity. Thus, for the optimum productivity when using standard media or paper/card/label stocks it is not necessary to activate these features.

2. Setting Up a Job

Graphics File Design - Creating Your Artwork

The ColorCut Pro Plug-in works directly from Adobe Illustrator or CorelDRAW. It requires the lines for cutting and perforating to be organised on a single layer. Therefore when designing with graphics you should organize the graphic design in different layers:

- One or more layers for the main graphics (the printed artwork).
- One layer for the contour cut lines.
- PageMARKs, the marks that are used for Page Registration are automatically placed for you on a different (3rd) layer.

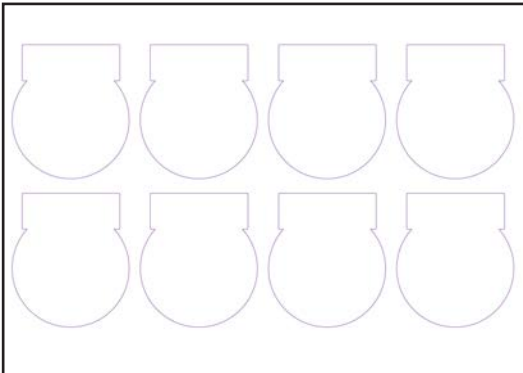
Graphics/Artwork layer



When printing you don't want to print the cutting lines or folding lines on your artwork. Equally, when sending cutting lines to the cutter, you don't want to confuse the cutter with lines that may be in your printed design. The layers feature enables you turn layers on or off as required. But in both cases, you need to have the registration marks available.

NOTE: The most common mistake people make is to print all the layers including (the cut lines) that make the prints unusable in most cases.

Cut contour layer



Similar commands are available in Adobe Illustrator and CorelDRAW to enable and disable the layers.

In the pictures shown on this page there is an external frame to indicate the border of the sheet making it easier for you to see the page.

NOTE: This is for illustration purposes only.

Automatic ColorCut Pro Marks Layer



When opening some PDF format files directly in Adobe Illustrator or CorelDRAW, very often you may also find an external frame on the graphics. You will need to delete the external frame if it exists for the file to operate correctly with the Color-Cut Pro software.

Layers

Layers for Printing

In this example, the main graphics layer is visible and active. The ColorCut auto-generated 3rd layer with Alignment PageMARKs is also visible. (Detailed later). The cut contour layer is disabled.



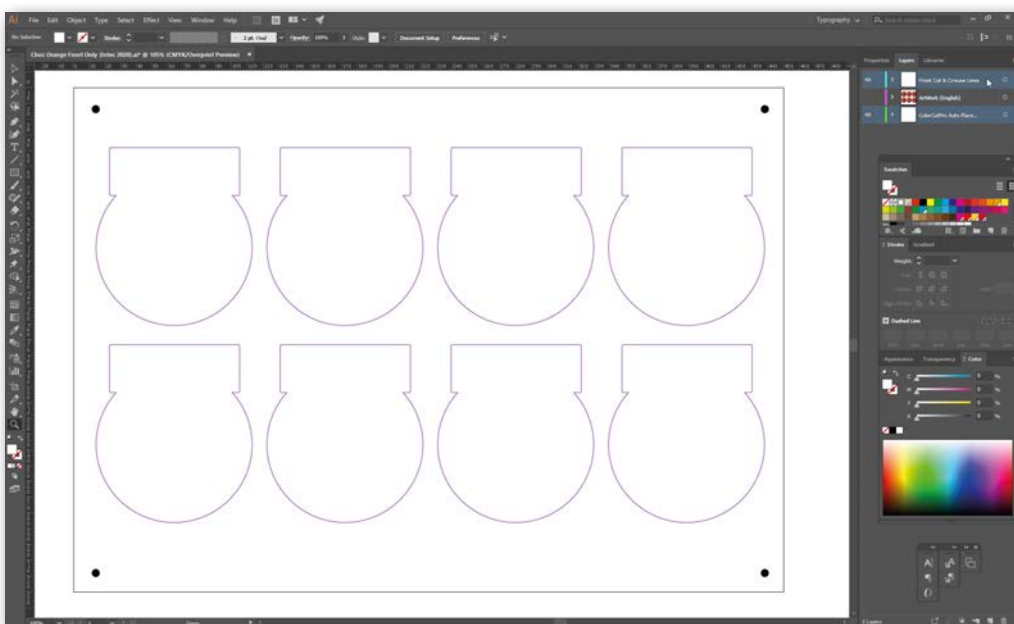
Drawing is ready for printing.

Layers for cutting

In this example, the main graphics layer is disabled. The ColorCut auto-generated 3rd layer with Alignment PageMARKs is still visible. (Detailed later).

The cut contour layer is active. This drawing is ready for cutting.

If you used guidelines then it is not necessary to hide or remove them before saving.



Drawing Cut, Perforated Lines

The ColorCut has:

A Blade Tool, which can be used to:

Contour-Cut shapes

Score lines

Perforate lines

When creating projects you may wish to perform 2 or more actions with the cutter.

The easiest way to do this in artwork is to use a different coloured line to the Cutting line. ColorCut Pro can recognise up to 8 pre-defined colored lines (detailed below) making it easier for you to design and assign actions for each line.

If you created a job with 4 colored lines (For example; RED, YELLOW, GREEN) in the ColorCut software you could set the actions as follows :

RED to half-cut using full speed

YELLOW to half-cut using half speed.

GREEN to half-cut using custom speed for intricate shapes.









NOTE: The actions you select a Line Color to perform can be reassigned at any time, and the order in which they are performed can be adjusted easily. (See following pages).

Line Colors recognised by ColorCut Pro

ColorCut Pro uses 8 standard colors, which when used on the cutting layer are recognised by ColorCut Pro. Even if your cut lines are not drawn in these specific colors, the ColorCut Pro software will intelligently Color match up to 256 variations of these each of these colors and assign your colored line to the closest match with one of the below colors.

ColorCut Pro will recognise the named colors in either RGB or CMYK.

If you have designed your cut lines using a Pantone or other color spaces you must use the Illustrator or CorelDRAW color commands to convert to (or remap) the color to one of the above RGB or CMYK line colors.

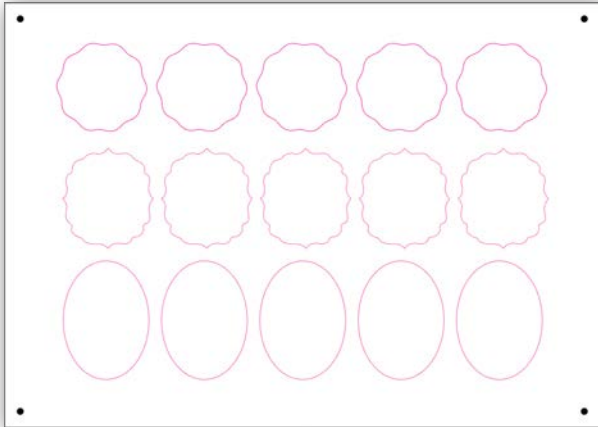
	Black	Red	Green	Yellow
				
RGB No:	(0,0,0)	(255,0,0)	(0,255,0)	(255,255,0)
CMYK No:	[75,68,67,90]	[2,98,95,0]	[76,0,100,0]	[4,2,98,0]
	Blue	Magenta	Cyan	Violet
				
RGB No:	(0,0,255)	(255,0,255)	(0,255,255)	(115,0,204)
CMYK No:	[91,80,1,0]	[0,100,0,0]	[100,0,0,0]	[70,87,0,0]

Registration Pagemarks

Before you design your page you need to consider that for accurate cutting each job requires 4 Registration PageMARKs. The PageMARKs are automatically placed on your artwork by ColorCut Pro's Add Pagemarks option. They are placed on all 4 corners of a rectangle that is typically surrounding the cut lines.

The PageMARKs can be placed at a fixed position on the page, or anywhere on the page as long as it surrounds your design. Either example below can be used.

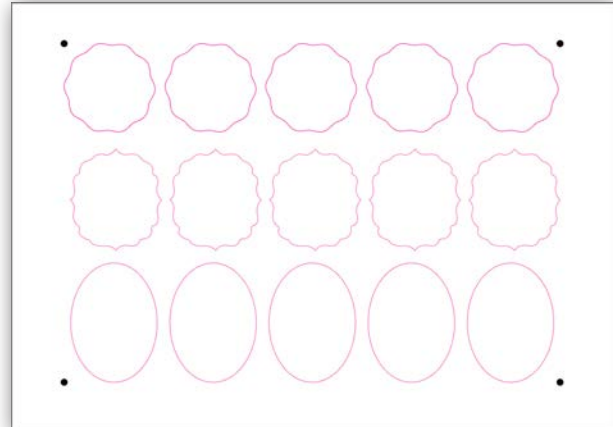
2



PageMARK's based on **PageSize**.

Fixed position of targets (PageMARKs) near page edges to maximise cutting area.

(Recommended for easier sheet replacement)



PageMARK's based on **Design size**.

Marks around artwork.

(Alternative to PageSize)

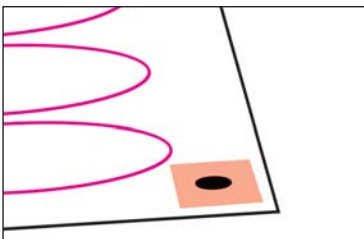
The first Registration PageMARK provides the origin of the job and is positioned at the bottom left edge of the sheet. The second which provides scale (Y) and skew parameters is positioned top left in the drawing shown. The third mark provides skew and rotation information and is positioned at the top right in the drawing shown and the final fourth mark provides scale (X), skew and error checking is bottom right.

Each Registration PageMARK is a 5 mm (0.2") x 5 mm (0.2") circle and 100% black with no outline.

Although you can manually draw the Registration PageMARKs on to your design, PageMARKs do not need to be manually drawn on; ColorCut Pro simplifies this, and will automatically add them.

Positioning of Registration PageMARKs

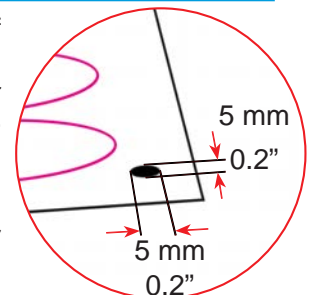
To maximise cutting area you can choose to place the cut marks close to the edge of the media. Be aware that there is a 8 mm scanning zone around the cut mark, (shown in red) so do not to place artwork too near the mark as this may be read by the sensor and cause an error or reduce the accuracy of PageMARK scanning.



The Vision Sensor needs 8 mm (0.32") around the mark to read correctly

Remember that digital printers often have a non-printable margin so ensure your cut marks are clear of this margin to avoid clipping.

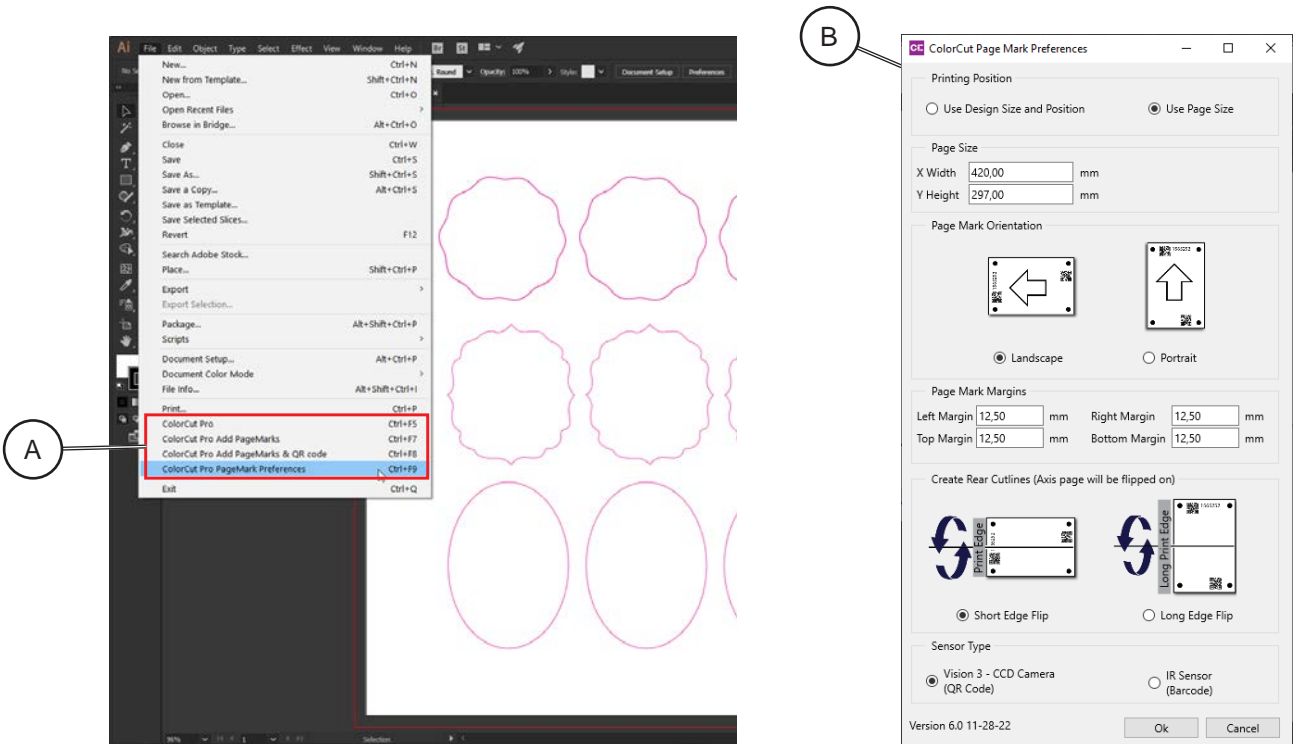
The absolute minimum margin is 8 mm (0.32") from the page edge or artwork, but for best results, we recommend a 10 mm (0.4") margin on the leading edge and sides.



NOTE: The ColorCut Plug-in that applies PageMARKs automatically includes a preferences option that enables you to define the margin you wish to use. The value you enter here in this option/setting, is the distance to the centre of the PageMARK. The PageMARK is a 5 mm (0.2") diameter circle, so you should set a 12.5 mm margin in PageMARKs preferences to achieve the recommended 10 mm (0.4") margin from the edge of your media to the edge of the PageMARK).

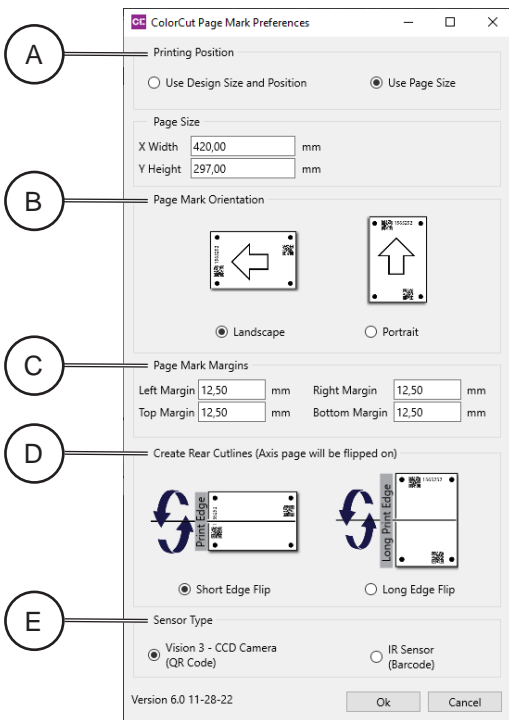
Automatically Adding Registration PageMARKs

You do not need to manually draw your PageMARKs on to your designs. ColorCut Pro will automatically add the marks for you. After installing ColorCut Pro and launching Illustrator (or CorelDraw), you will find a new set of options [A] under the Print command in the File drop-down menu.



1. Launch Illustrator (or CorelDraw). In the File drop-down menu under the Print command click the [ColorCut Pro PageMARK preferences]. (You only need to do this on initial use.) Therefore, the recommended margins for the highest cut accuracy are shown in picture.
2. The ColorCut Pro PageMARKs Preference dialogue box [B] will appear. You can use this control to set where the cutting registration marks (PageMARKs) will appear on the sheet.
3. Choose Printing Position of page marks.
4. Define the margins based on chosen print position:
 - Distance from the page edge to the centre of the PageMARK for Page Size position
 - Distance from the design edge to the centre of the PageMARK for Design Size position

Configuring Automatic PageMARKs



1. In ColorCut Pro PageMARK preferences window under Printing Position section [A] select 'Use Page Size'.

NOTE: Page size is updated from your Artboard size in Illustrator, so you do not need to adjust the page size setting here it will automatically adjust when the PageMARKs are added.

2. Locate the Page Mark Orientation section [B] and select the orientation for your design.
3. Ensure the PageMARKs are orientated so the 1st mark and the QR Code are placed on the lead edge of your media when placed on the table.
4. ColorCut Pro scans identifies the origin mark and then moves the appropriate distance (based on your design) to locate the second/next mark (across the lead/feed edge of the media).

Failure to choose the correct orientation can mean your cutter will try to scan a mark that is located at a different position and fail (i.e. a distance equivalent to the length of your sheet rather than the width).

NOTE: The terms Landscape or Portrait in the ColorCut Pro PageMARKs preferences, relate to the positioning of the marks on the sheet based on the thumbnail shown (i.e. Landscape places them on the left of the design and so if your design is already Landscape then choosing landscape in the ColorCut Pro preferences will effectively rotate the mark position and add your marks to the left edge as you design on screen. Thus, ColorCut Pro will add marks 1 & 2 (& QR code if appropriate) on the left edge - this is now the lead edge when placed into the Auto-sheet feeder which will be correct for LC700 users. Note however applying the marks using the Portrait option - will add PageMARKs to the top of the sheet (the wide edge) this will not be correct as it is not possible to place the wide edge of the sheet as the leading edge in the auto sheet feeder.

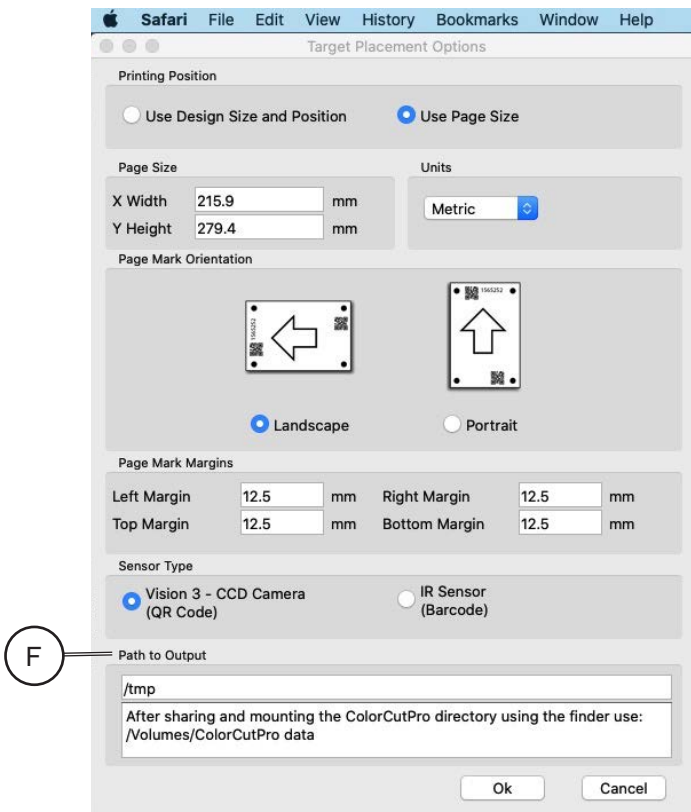
With the LC700, if your design is Portrait, then choose to add the PageMARKs in a Portrait Orientation. (Adding marks 1 & 2 (and QR code if appropriate) to the top edge - Please consider the orientation you need the marks to ensure the PageMARKs are added to the lead edge of your sheet when it is placed in the Auto-Sheet feeder.

5. Locate the Page Mark Margins section [C] and enter the margin you would like.
It is also important to note that the measurements are to the centre of the 5 x 5 mm (0.2" x 0.2") Circle registration PageMARK. When adding PageMARKS, consider therefore to use a 12.5 mm (4.9") margin for the left Margin & Right Margins (Portrait) and 20 mm - 22 mm (0.79" - 0.87") margin to the Lead edge (top) and tail edge (bottom) boundaries to give recommended margin to the page edge.
6. Select the Short Edge Flip or Long Edge Flip [D] to produce cut lines on the back side of your page. This option is very useful when printing designs that necessitate precise and accurate trimming, such as those printed on both sides. By selecting this option, you may verify that printed pages are accurately aligned and cut to their exact final size.
7. Sensor Type [E] - The LC700 uses an advanced Vision 3 CCD camera sensor which reads round registration marks and will recognise QR codes. However the ColorCut Pro application supports a number of different cutters, some with standard IR sensors that use traditional square marks and barcodes. Therefore to ensure that ColorCut Pro adds Round marks, please ensure that the 'Sensor Type' is set to "Vision3 CCD Camera (QR Code)" in this dialogue box.

Continued on next page...

Additional Configuration for Mac users

2



Adding PageMARKs is exactly the same for Mac users, however Mac users will typically use ColorCut Pro's Job Library feature to assign a job number (and QR code where applicable) to their jobs - enabling them to be cut efficiently in a production environment.

Mac users wishing to use the Job Library and QR code feature must ensure that they configure the connection to the Job Library correctly, otherwise Job Numbers and QR codes can not be generated and added to jobs.

You will need to configure the PC which is hosting ColorCut Pro and connected to the cutter, to broadcast/share the ColorCut Pro Job Library folder.

Once you have enabled the PC to share the Job Library folder (ColorCut Pro Data), then you will need to mount this share on your Mac, and enter the path to it in the Path to Output section [F] in the ColorCut Pro Add PageMARKs preference screen.

To confirm the path to be entered, please follow the video guide highlighted above or read the section 'Mac users - Connecting to the ColorCut Pro Job Library' in the separate 'Setup & Installation guide'.

Using 'ColorCut Pro Add PageMARKs'

It is important to note, that when you activate the 'Add PageMARKs' feature from the [File] menu, the ColorCut Pro software will examine the currently selected 'Layer' in your graphics application and isolate all vector lines and curves on the page.

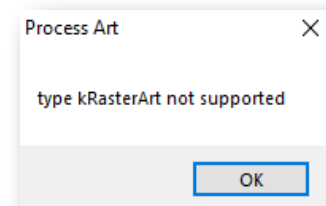
You may see an Error Message if there are artwork elements or images on the layer selected when you launch ColorCut Pro. You can avoid this by drawing the cutting profile and the artwork graphic on separate layers.

In this example the graphic layer is active; this drawing is ready for printing.



Warning:

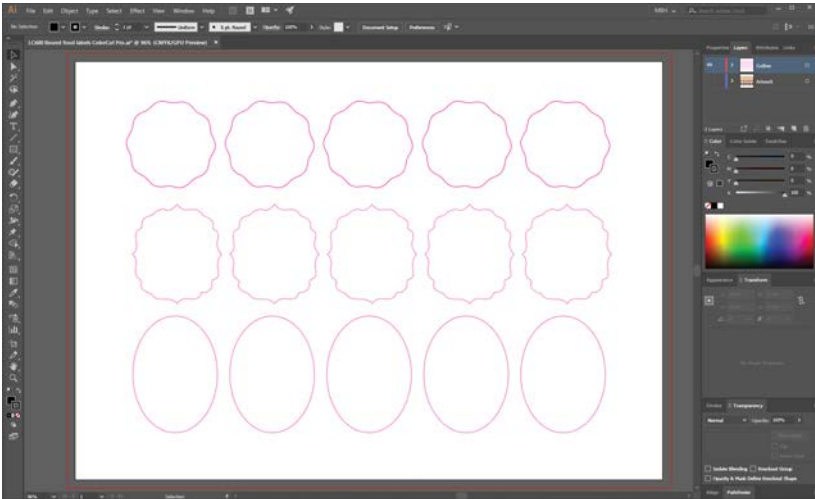
Launching ColorCut Pro Add PageMARKs with the artwork layer selected will generate an error:



kRasterArt not supported
ColorCut Pro does not know how to interpret the Graphics as cutting lines.

Selecting the Layer to Add PageMARKs

Ensure only the vector lines you wish to cut and send to your ColorCut are on the layer selected before adding the PageMARKs using 'ColorCut Pro Add PageMARKs'. (You do not need to delete your artwork. It simply must be on a separate layer). In the example below the Cutline is selected (The artwork layer is not selected) and the layer is ready for you to 'Add PageMARKs'.

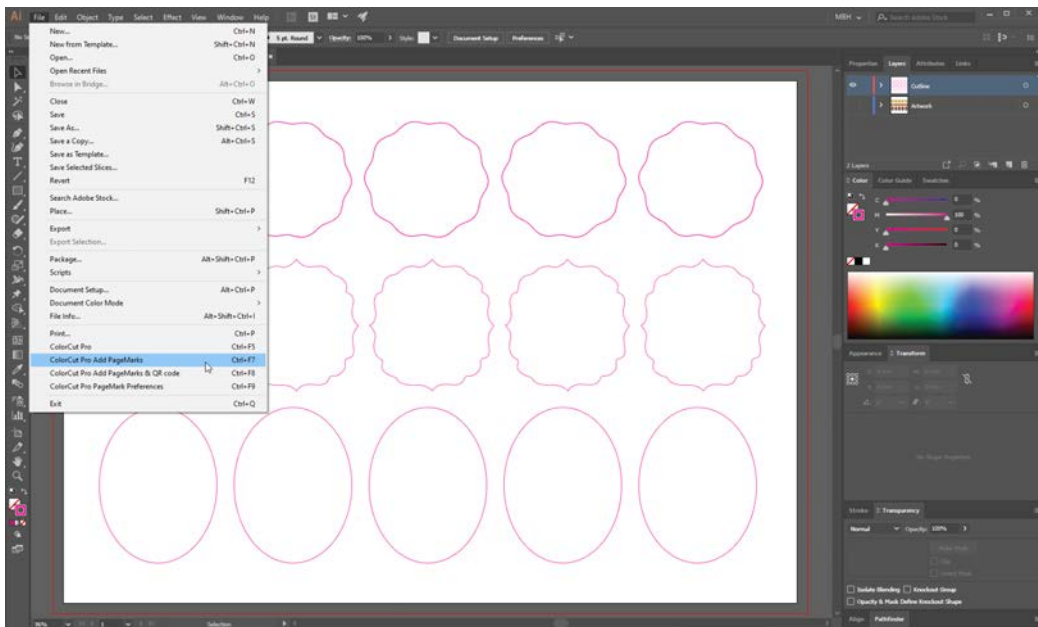


NOTE: The Artwork layer is hidden in this example, however you do not need to hide the artwork layer.

The only requirement is that you must select the vector/cut line layer and there should be no artwork/printed elements on the layer you wish to cut or 'AddPageMARKs' to.

2

Automatically Adding PageMARKs

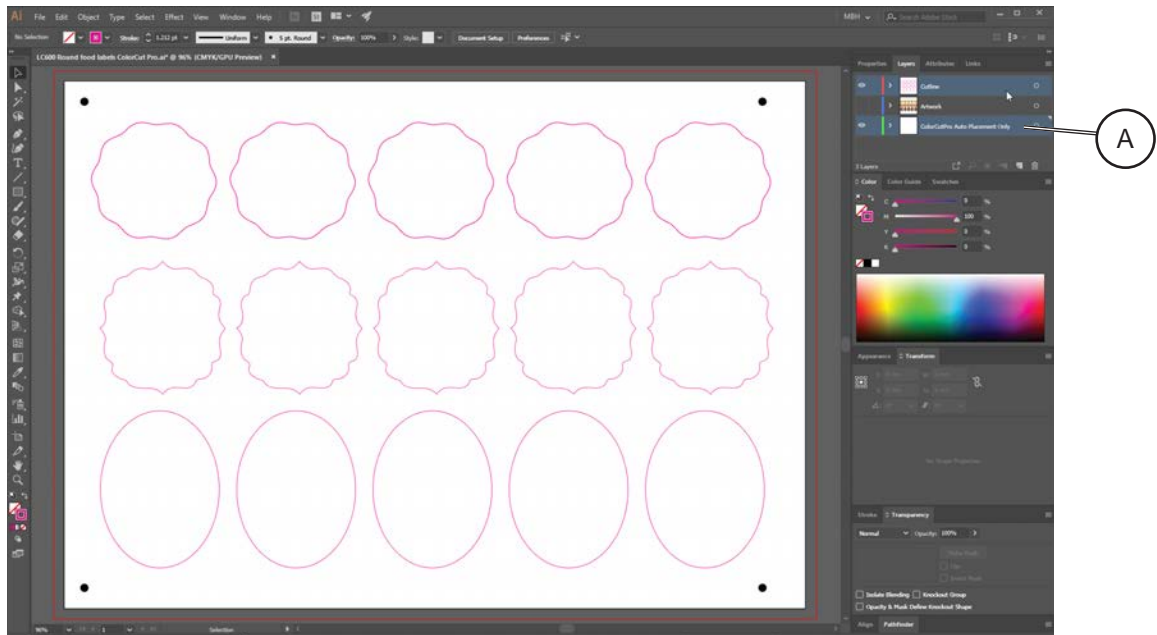


From the File menu in Illustrator or CorelDRAW, select the menu item 'ColorCut Pro Add PageMARKs'.

Continued on next page...

Automatically Adding PageMARKs, continued

2



From the File drop-down menu in Illustrator or CorelDraw, select the menu item 'ColorCut Pro Add PageMARKs'. PageMARKs will be automatically added to your job and you will see a New Layer ColorCutPro Auto Placement Only [A] added in your Layers palette.

When printing your artwork you will want to hide the cut lines as you do not want these to print. Generating the PageMARKs on a separate layer means that you don't hide your PageMARKs when hiding your cut lines and enables you to leave the PageMARKs layer visible alongside your artwork layer (while still enabling you to hide your cut lines).



In example above the file is prepared for Printing (or saving as a PDF for digital printing systems). The cut line layer is hidden and not visible however the New Layer which includes the alignment PageMARKs ('ColorCutPro Auto Placement Only') is visible alongside the layer including your artwork, enabling your job to print with your artwork and the PageMARKs visible on your document.

Job Numbers, Barcodes and the Job Library

The standard way of adding PageMARKs (detailed above) provides accurate cutting of your files directly from Illustrator or CorelDraw. However in many cases the Graphic Designer who generates the designs may not be the operator who is responsible for also cutting the jobs.

Files including PageMARKs must be cut from Illustrator or CorelDraw, so this means that the operator responsible for cutting the jobs must also use Illustrator or CorelDraw. Even when the same operator is cutting the files, it may be some time later when the printed job needs to be cut and this would require the operator to find and open the original file again.

The ColorCut Pro Job Library feature assigns Job Numbers for your cut jobs and makes cut file retrieval simpler, faster and more efficient while also making cutting much easier.

2

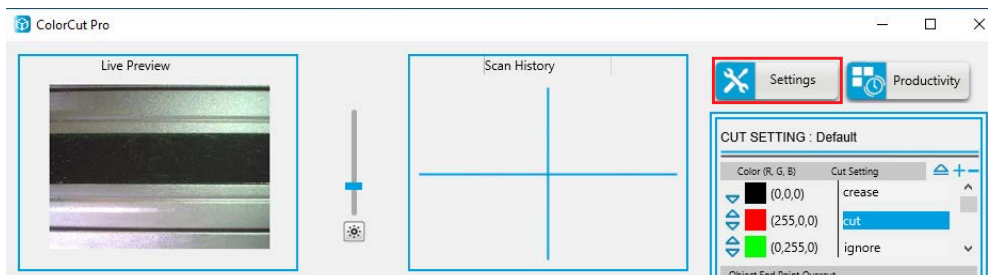
Cutting without using PageMARKs

It is recommended that normally you use PageMARKs, ColorCut Pro will scan the PageMARKs on your sheet to calculate where your sheet is (the origin) and compensate for any positional errors, scale or skew therefore accurately aligning your cut with a print or position on the sheet. However, in some cases, e.g.

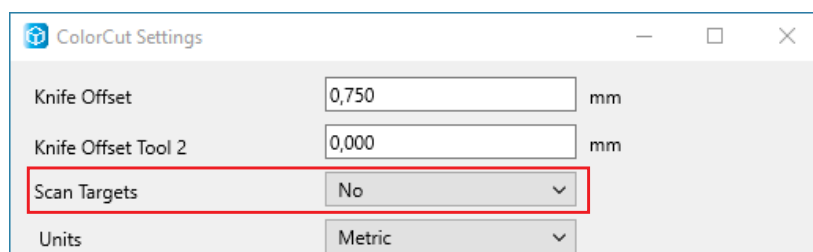
- On a sheet that is unprinted/blank, such as a clear sheet of Polyester to be used as a face shield. You only need to cut a visor shape and have no print, and no PageMARKs on the sheet.
- On clear material for Mobile phone screen covers. Again, no PageMARKs and the sheet is blank, you are not aligning to an element.
- Blank red card at Valentines day, to cut multiple red heart shapes. The hearts will be blank and not aligned to the sheet.
- A difficult media which has been foiled and the PageMARKs can not be read using the normal process (This may have print to align to, but the accuracy of alignment has a high degree of tolerance).

Cutting without PageMARKs is simple and often quicker as the process of scanning the PageMARKs is skipped, however the downside of skipping the registration PageMARKs is that there is no process to register the position of the sheet accurately and no ability to adapt your cutting lines for printing scale, skew or rotation errors.

Disabling Scan Targets



1. To cut sheets without PageMARKs, open the [Settings] window.



2. Set the Scan Targets option from to [NO]. This setting applies to all sheets until the setting is changed back to [YES]. Click [OK] to save the settings and close the window.

The cutting accuracy in respect to where the origin of your cut starts on the sheet or in respect to alignment of the cut to printed elements varies according to the media size you set, the feed and feed advance and left offset values (under the [Productivity] button) and the first cutting element on your design.

NOTE: Setting "Scan Targets" to [NO] also disables scanning of QR codes, so if you have a stack of sheets in the Auto Sheet Feeder, some without PageMARKs and some with. It will no longer detect any PageMARKs.

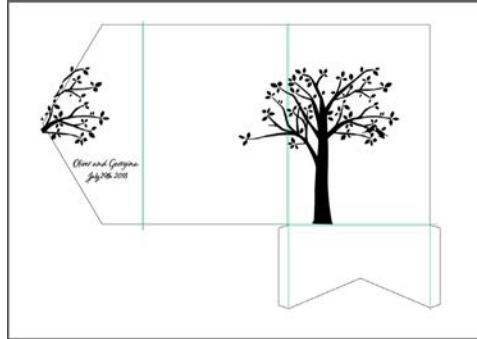
Design requirements when cutting without PageMARKs

ColorCut Pro does not use your document page size, normally cutting starts relative to the first PageMARK. Therefore if you disable 'scan targets', cutting will start at the furthest left and upper point of the perimeter around your elements for cutting. It is therefore recommended you consider this in the design.

2

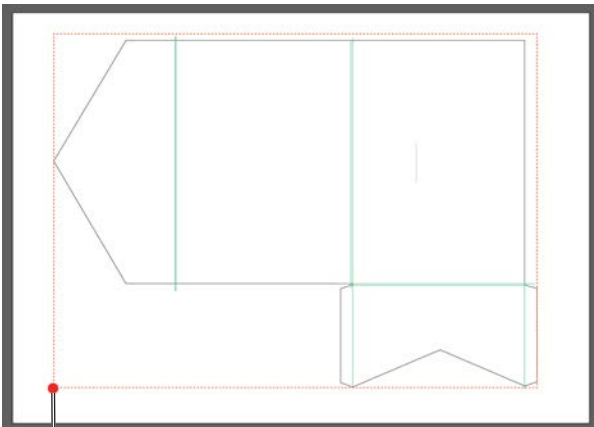


Desired result



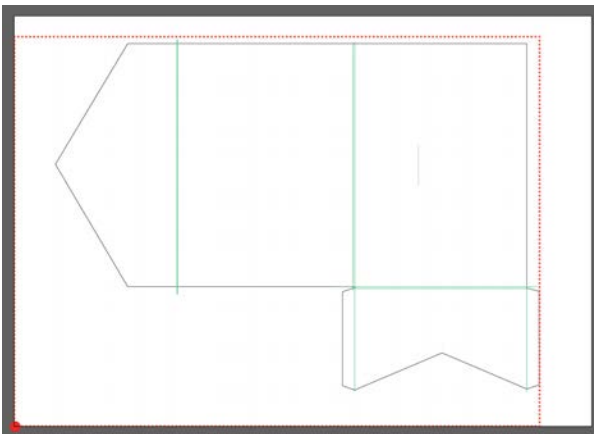
Artwork (before modification)

In given example, the used media was foiled, in addition the surface of the media contained glitter, which rendered the foiled PageMARK's unreadable. As the artwork is such that a small degree of movement would not be noticeable, this job was cut with Scan Targets disabled.



A

The frame on the artwork design represents the media size the job was printed on. However, ColorCut Pro files only contain the cut line and position data relative to each element (the elements inside the red dotted line), not your design in relation to the media size. Therefore to cut accurately we would need to manually adjust the start/origin point [A] of the cutting to the position.



As ColorCut Pro, works from the First element on your page it is much easier and simpler to set ColorCut Pro to use the leading corner of the sheet as the origin. This can be easily achieved by adding a small dot or 0.1 mm circle on the corner of your Page.

The perimeter of your cut lines/elements now relate to the corner of your media. If the Productivity settings for feed advance and left margin offset are correct then this will now cut relatively accurately.

Use a different color for this dot, then you can set a specific action for this color before cutting the rest of your design as desired.

How To Cut Files Using ColorCut Pro

There are two different ways to Launch ColorCut Pro Production Studio.

ColorCut Pro - Production Studio is the full version of ColorCut Pro, and is used to cut your files. It can be used in two different ways, you can select the most suitable method for your working environment.

1. ColorCut Pro (Direct Plug-in) is launched Directly from your graphics application. Launching ColorCut Pro, directly from your Graphics application will transfer the currently open design file (specifically the currently selected layer) directly to ColorCut Pro for cutting. This enables you to cut the file you are working on (or open a previously saved file). This way of working is ideal for testing a design or where the cutting will be handled by the same person that makes the artwork.

NOTE: When working in ColorCut Pro (Direct) mode, as ColorCut Pro is launched directly from the graphic application it requires either Adobe Illustrator or Corel Draw installed on the computer that will do the cutting. In addition the operator will need to locate the file to cut and to be able to use the graphics application in order to launch ColorCut Pro. For this reason we typically recommend using the stand-alone mode of ColorCut Pro - Production Studio, also known as ColorCut Pro Job Server mode.

2. ColorCut Pro (Job Server Mode) does not need a graphics application installed on the computer. It also does not require you to locate the original graphics file. In addition the simplified interface is designed to be used by any operator (typically a Print Finisher with no specific computer or Graphic Applications skills) by providing a [Start/Scan QR Code] button to start operation.

When using ColorCut Pro in Job server mode your files must already have been created and had PageMARKS and a Job Number/QR Code added during the design stage. When the 'Add Job Number & QR Code' feature is carried out by the designer, the cutting lines are saved automatically for all users in the Job library folder.

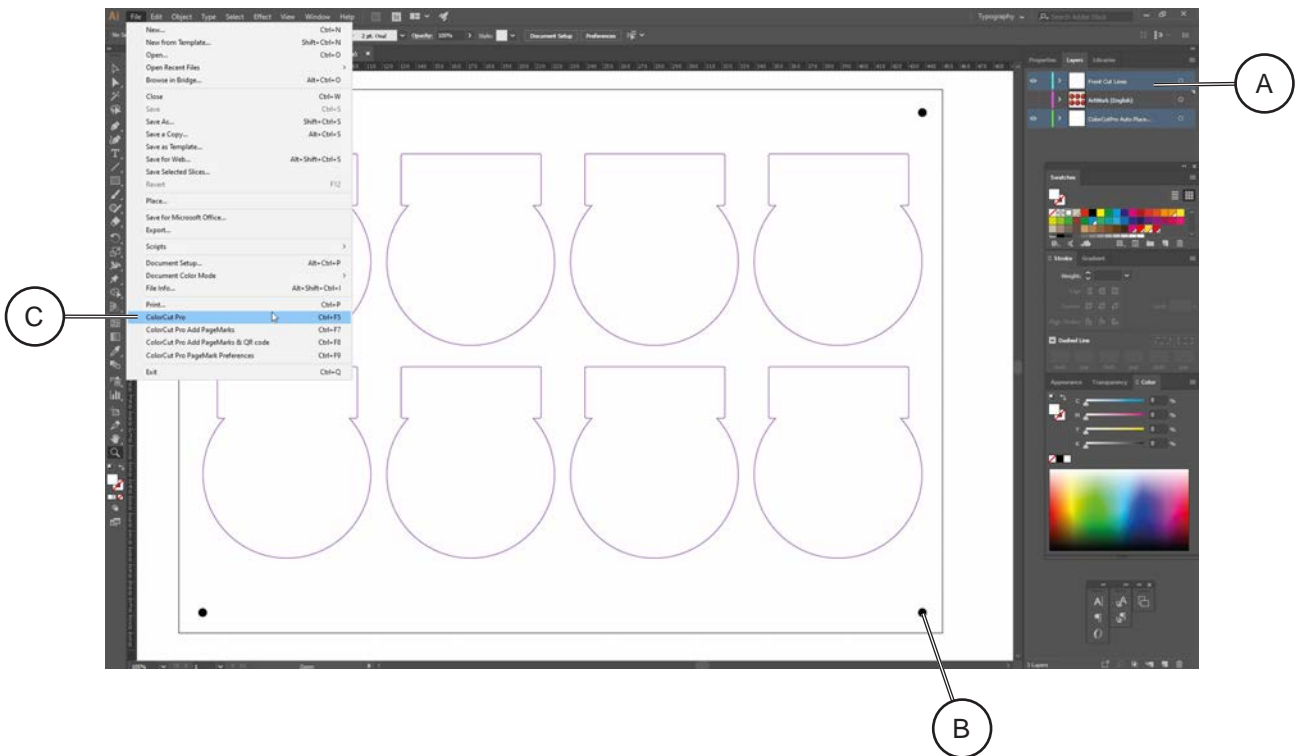
When using ColorCut Pro - Production Studio (Job Server Mode), ColorCut Pro is launched on its own (stand alone) on your computer from the Windows Start Menu. The appropriate cutting file is retrieved by the operator entering the job number or can be retrieved automatically as the LC700 scans the QR Code.

Using ColorCut Pro - Production Studio in (Job Server) mode streamlines the cutting process and retrieves cut files for you making cutting much easier. It is the recommended way of working for busy designers so they can find the files quickly and especially in companies where the cutter operator is a different person to the graphic designer, or where a different computer will be used for the cutting such as in MAC environments.

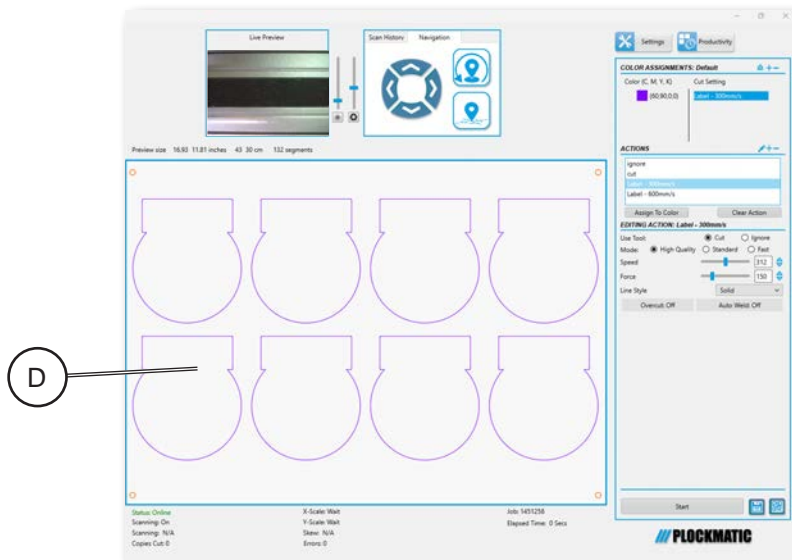
NOTE: When working in ColorCut Pro - Production Studio (Job Server) mode, as ColorCut Pro will retrieve the cutting files from the job library for you, it is important that your files were created with a Job Number and QR Code using the 'ColorCut Pro 'Add PageMARKS and QR Code' feature in the design process from your Graphics Application.

The following section of this manual details how to launch ColorCut Pro - Production Studio to cut your files using either method.

Cutting Jobs Directly from Graphics Application (Direct Mode)



1. In Adobe Illustrator or CorelDraw, open the file you wish to cut.
2. Ensure you have selected the layer with the Cutting lines [A] you wish to cut.
3. Ensure you have already added PageMARKs [B] using the ColorCut Pro add PageMARKs feature.
4. With the Layer which you wish to cut selected, choose the [File] Menu in Illustrator or CorelDraw.
5. Now select 'ColorCut Pro' [C] from just under the Print command in the File menu.



6. The ColorCut Pro will launch, and Cut lines will appear in the preview window [D]. Please review the section in this manual for ColorCut Pro main interface functions to understand how to create and save Material/Actions, and how to assign Line Colors to the material/actions .

Retrieving Jobs from the Job Library (Job Server Mode)

Retrieving Jobs from the Job Library

Job Server mode enables you to open files previously saved during the design process, to the ColorCut Pro Job Library. This can streamline your production and make your design process easier.

Creating Cut Job files using Job Numbers means you can assign a Cut Job number to a specific customer or assign a specific 'Design Template'/ Style to a Cut Job number.

Your Cut files are saved to the Job Library when you generate the Job number & QR code for the cut line. The Job Library can be accessed at any time without Illustrator or CorelDRAW on the PC hosting the Job Library. To launch ColorCut Pro - Production Studio (Job Server Mode), simply launch the ColorCut Pro software from the Start menu (or desktop shortcut if you created one) on your computer.

There are two ways to retrieve Jobs from the Job Library.

1. To 'Scan QR Code'
2. To manually enter the Job Number.

Retrieving Jobs with QR codes printed on them



1. Place your sheet to cut in the feeder. Ensure the end with the Job number is on the leading edge.

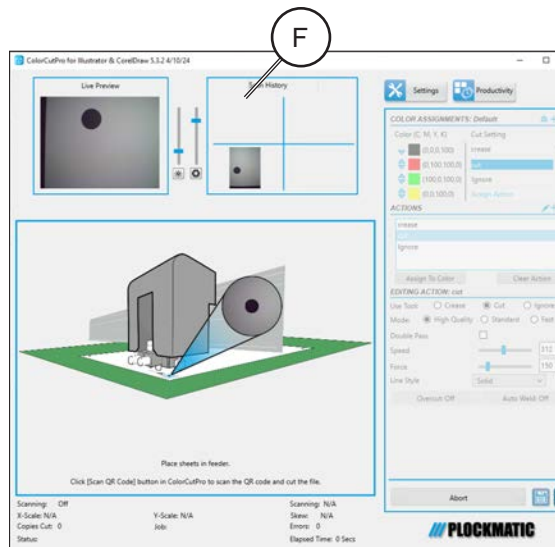


2. On the LC700 control panel check that the LCD panel shows cutter is ON-LINE and ready to receive jobs (The Home screen). The LCD display should show the status of Each Tool and show the ON-Line icon.
3. If 'ON-LINE' is not shown on the LC700 Control Panel, then press the [Home] button to place the cutter On-Line and to display the Home Screen as shown.

Continued on next page...

Retrieving Jobs with QR codes printed on them, continued

2

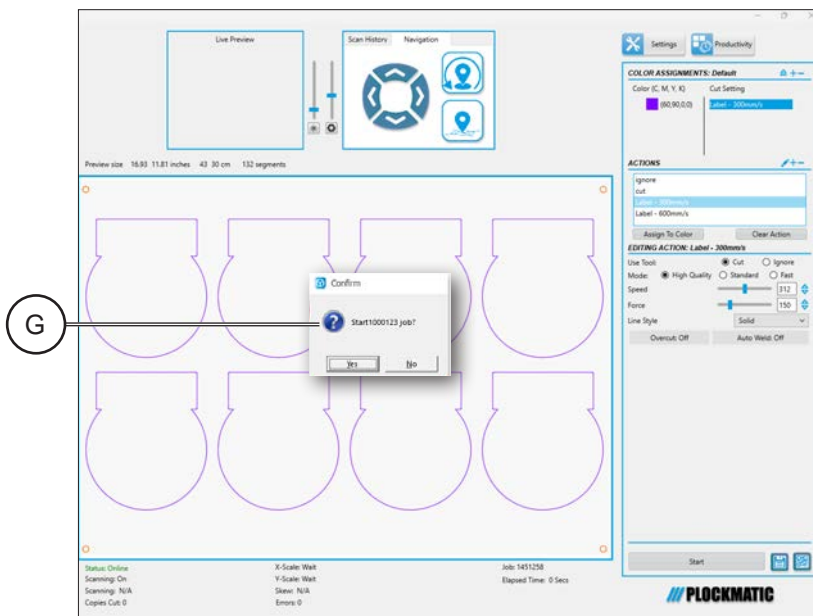


In Live Preview Window you will be able to see an 'echo' of what the Vision3 registration sensor is seeing.

The first PageMARK scanned will appear in the Live preview Window, as the position is captured the Scan History of the location will be shown [F].

Jobs are saved to the Job Library during the design process. Each job is stored with the designated Job Number. The QR code carries the Job number and retrieves the Job cut file for you.

As soon as the QR code is recognized, a preview of the job to cut will appear in the Job Preview Window



NOTE: When you first start using the LC700 it is recommended that you enable 'After scanning QR ask before cutting' in the Productivity menu. This will pause the LC700 cutter after loading the cut job and display the message [G] asking if you wish to Start the job (See section "After scanning QR Code ask before cutting").

This is useful when first using the cutter, as it provides the opportunity to set up the actions, cutting force and speed and helps you understand how to assign actions to each of the colored lines.

After you are confident with your cutter and the selection of actions in respect to Colors, you should disable this setting, so full automated operation can be achieved.

Enter a Job number to retrieve the Cut Job file directly

In addition to scanning a QR code to retrieve a cut file, from the Job Library you can also manually enter the job number to load the cut file. There are several reasons why it is useful to enter the Job number directly rather than scanning the QR code:

Manually entering the Job Number can enable you to pre-load line Color assignments

In Production menu, you would normally have the option 'After scanning QR Code ask before cutting' set to no. This enables automatic production so that after scanning a QR code the ColorCut LC700 will automatically start cutting your job using your currently assigned Material actions/ line colors. However in some circumstances this may not be desired, e.g. if the artwork/job contain lines that do not follow your normal (assigned) convention (e.g. green for cut), so to automatically start cutting will assign the wrong actions and this may not be ideal.

To solve this you could set the 'After scanning QR Code ask before cutting' to Yes, but this would stop at every sheet. So, to avoid the need to enable and disable the 'After scanning ask before cutting' control you can simply load your sheets and manually enter the Job number, of your first sheet.

This will load the Cut Job file and enable you to check/assign cut actions and line colors - giving you the option to start the cutting only after you have set the line color actions and when you are ready.

Manually entering the Job Number can enable Jobs without QR codes to be retrieved without the original graphics file

Adding your Jobs to the ColorCut Pro Job Library is useful as this enables the job to be retrieved at a later stage or another user to cut the file without needing the original file, or the graphics application that created the design.

In the design stage, Jobs can be added to the Job Library by selecting "Add PageMARKS and QR Code" from the Graphics application's main menu. However, there are occasions where it may be necessary to Add the Job to the ColorCut Pro Job Library, without the QR code on the printed sheet.

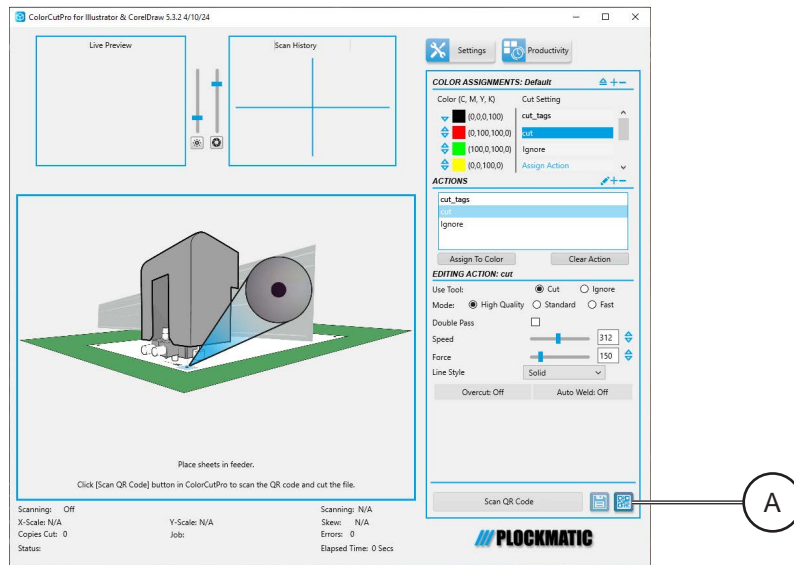
i.e. when cutting artwork which contains some graphics or elements that would obscure the QR code (such as a solid bleed color) or when the Graphic Designer needs to maximise sheet area used for cutting but in doing so the QR code may resultantly appear within the finished product

In the above instance, the graphic designer, "Add PageMARKs and QR Code" as normal, to assign the Job to the ColorCut pro Job Library, but then delete the QR code from the artwork after they have assigned a job number to the design.

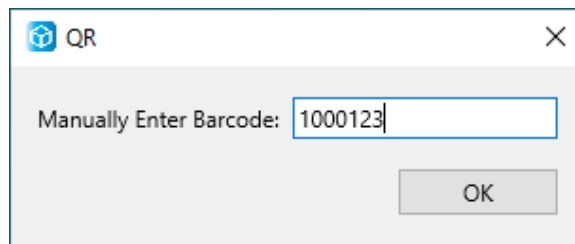
Jobs that have been created with a QR Code and Job number (but then have, had the QR code removed), can be recalled from the Job Library by simply entering the job number (normally) printed at the top of the sheet.

Enter a Job number to retrieve the Cut Job file directly, continued

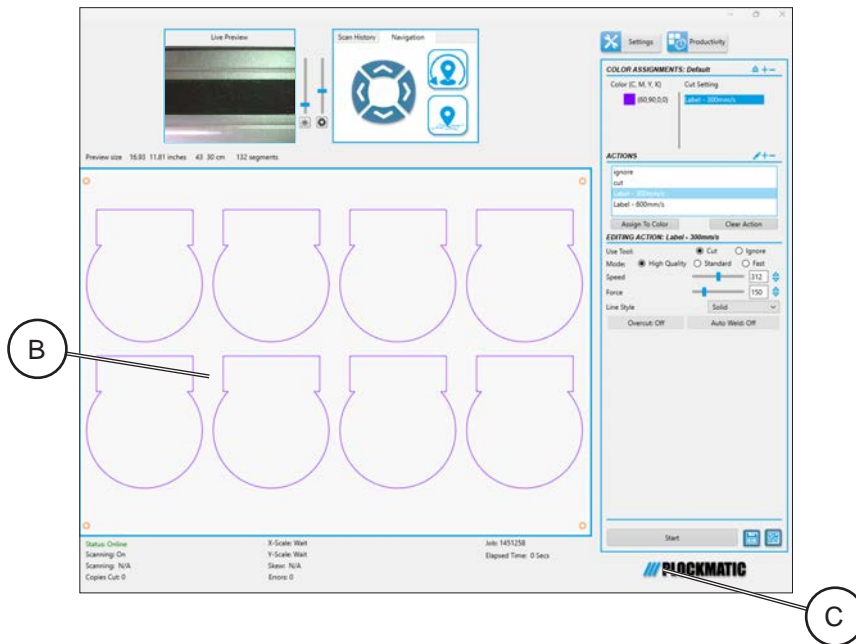
2



1. To load a Job file from the Job Library using the Job Number click on the QR Code Icon [A]. This will display a dialogue box asking you to enter the Job Number manually.



2. Enter the Job Number (found at the end of the printed sheet) and click the [OK] button to accept. Your Cut Job File will be loaded directly into the Job Preview window [B].



You will notice the [Scan QR Code] button has now changed to [Start] [C].

3. Assign actions to each Color.
4. Set the number of copies you want to cut after assigning actions to colors and making any other necessary changes, and then click the [Start] button.

3. Settings and Options

This section outlines ColorCut Pro settings that you can change directly on the cutter. If you want to use the cutter in standalone mode and import files via USB, you don't need to change settings in ColorCut Pro; instead, you can adjust them directly on the cutter's user interface.

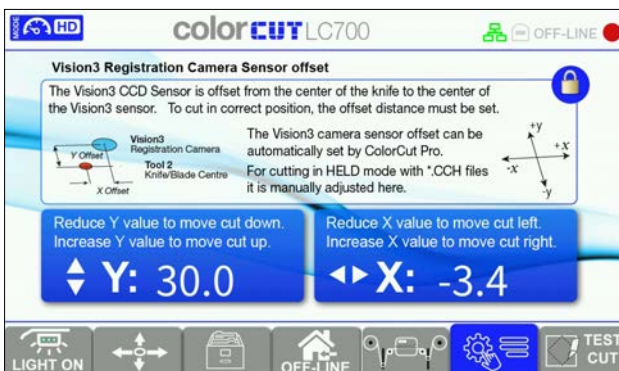
The Settings and Options screen



Press the [Settings and Options] Tab to get to the Tools screen. Select the setting you want to change by moving up/down with arrow keys and once select pressing [ENTER]

After changing setting in the sub screen, press the [ENTER] button to save your changes and return to the Settings&Options screen.

Align Camera Sensor to Tool1



NOTE: Camera Sensor is not factory calibrated, so it must be done prior to cutting any jobs.

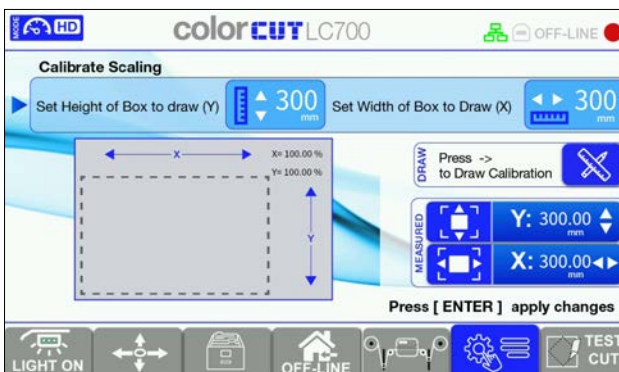
Sensor Offset tells the difference in position between the actual Blade on the cutter and the Vision sensor that reads the PageMARK positions.

The Sensor Offset needs to be set once and once set it does not change. It is very essential that it is set prior to cutting any jobs.

Offset is manually adjusted by editing the Sensor Offset X and Y values in tools section. To alter the X and Y values, press and hold the padlock icon to unlock and adjust the values.

For detailed description See section "Sensor Offset & the Auto Find feature".

Scale Calibration



To ensure accuracy and precision in the cutter's cutting process the scale calibration is performed.

Scale Calibration involves creating a box shape with predefined measurements and comparing it to the actual dimensions. If there's a difference, the measurements are adjusted until they match, guaranteeing precise cutting.

Continued on next page...

Quality Mode



Three cutting modes are available for selection, each of which enables a modification in cutting speed by adjusting the mode of the cutter.

When handling cutting tasks of relatively straightforward complexity, it is advisable to employ the Fast Quality mode.

For projects involving thicker media or intricate designs with finer details, such as demanding perforations, the HD Quality mode is recommended due to performance and precision.

For tasks that don't specifically necessitate the use of either the Fast or HD Quality modes, opting for the Standard Quality mode is recommended for achieving consistent and balanced results.

3

Image Control



The Image Control feature promotes adjustments to the video camera's image parameters, allowing for fine-tuning of both lighting conditions and exposure levels. Within this interface, it is possible to inspect page marks and QR codes to ensure their readability by the cutter, making necessary adjustments to lighting and exposure as required.

Invert marks provide the reversal of color schemes. For example, in cases where the media is black and the marks are white, this feature permits the seamless transition between these configurations.

Advanced Productivity Configuration



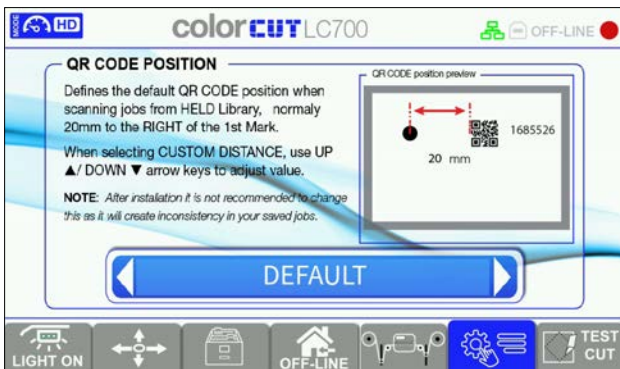
Retry Mark Scanning function enhances mark reading success and cutting accuracy. When set above the default value (OFF), the cutter retries scanning the mark if it fails, up to the specified number of times.

If the same mark position is detected twice consecutively with a rescan level >2, it proceeds to the next task.

Vary Light During Retries feature adjusts lighting conditions during mark scanning retries to improve accuracy. When Retry Mark Scanning is set to 2, it cycles light levels from low to medium to high on successive retries. For Retry Mark Scanning >2, the light range adapts accordingly for each mark scan. This feature helps when scanning media is challenging, allowing the cutter to move to the next process upon detecting any valid position.

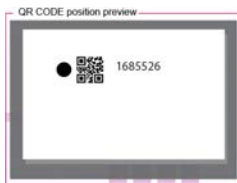
Continued on next page...

QR Code Positioning

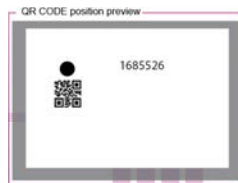


Within the QR code position menu, users have the flexibility to select from five distinct positioning options.

This feature proves particularly valuable in scenarios where the design elements intersect with the QR code's intended location, necessitating an adjustment for optimal placement.



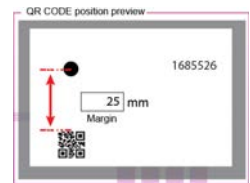
Next to 1st Mark
(Right)



Next to 1st Mark
(Below)



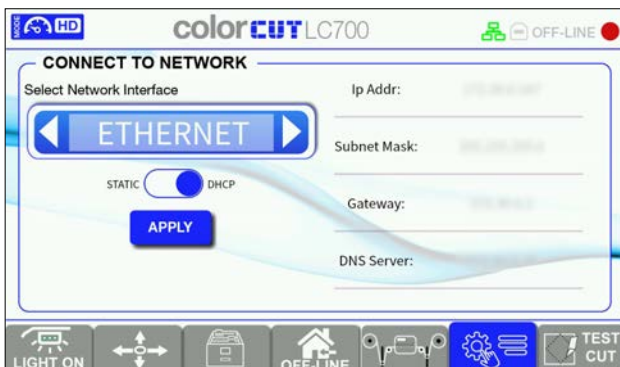
Custom (Right of
1st Mark)



Custom (Below 1st
Mark)

3

Network Settings



The network settings screen allows to connect the cutter to either Wi-Fi or Ethernet.

When static settings are enabled, it is possible to manually configure the connection settings, while with DHCP turned on, the settings are automatically assigned by default.

The default settings after Factory reset is Ethernet - DHCP.



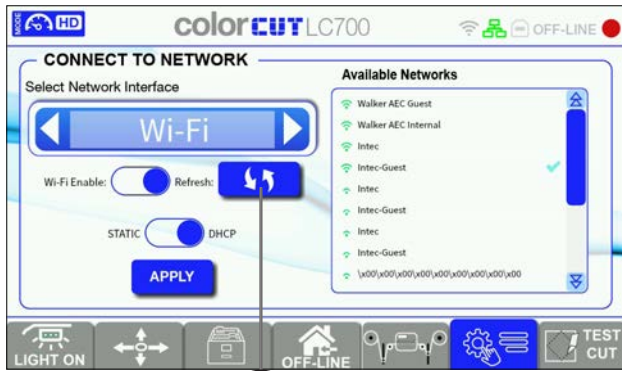
When the connection type is changed to Wi-Fi, the Wi-Fi settings display.

NOTE: Wi-Fi is deactivated after a factory reset or the first time the machine connects.

When switched on, the cutter remembers the last set settings. (Wi-Fi will be activated, and any previously selected connections will be reconnected.)

Continued on next page...

Network Settings, continued

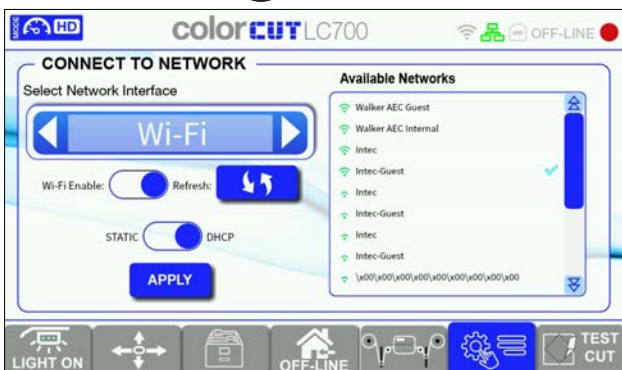


3

A

When Wi-Fi is enabled but not selected, a list of accessible networks is displayed.

The Refresh button [A] refreshes the network list.

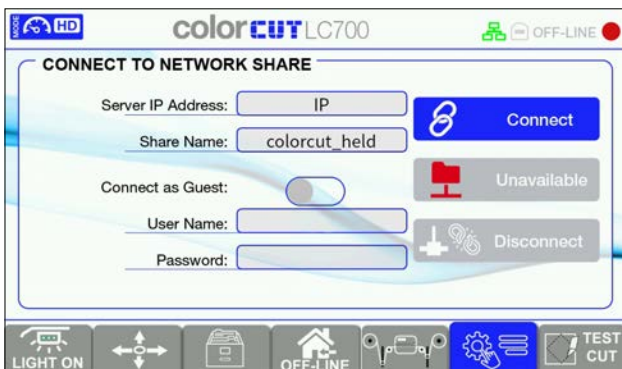


When clicking on a network, the keyboard appears to enter SSID password.

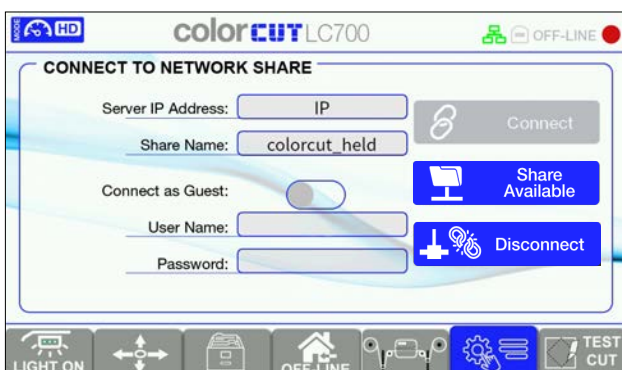
When Wi-Fi network is connected, it appears at top in separate box.

Holding the name of the linked Wi-Fi allows you to forget (clear the password) for the connected Network.

Connect to Network Share



Connecting to a network share makes it easier to access data stored on a workstation. To begin this connection, provide the Server IP address and the Share Name "ColorCut_Held" as the cutter system will recognize and connect to this folder address. Legitimate network credentials must be supplied, such as a username and password.



Upon successful entry of the correct credentials, the status indicator labelled 'Unavailable' will transition to 'Share Available,' signifying a successful connection.

Following that, the unit is able to access files over the LAN (Local Area Network) when in Held mode.

Continued on next page...

Firmware



The firmware menu displays extensive information on the cutter's specs, including the model ID and serial number. The hardware ID corresponds to the identification of the main PCB, while the version number pertains to the specific revision of the PCB in use.

The firmware version is prominently presented and can be subject to updates from this interface.

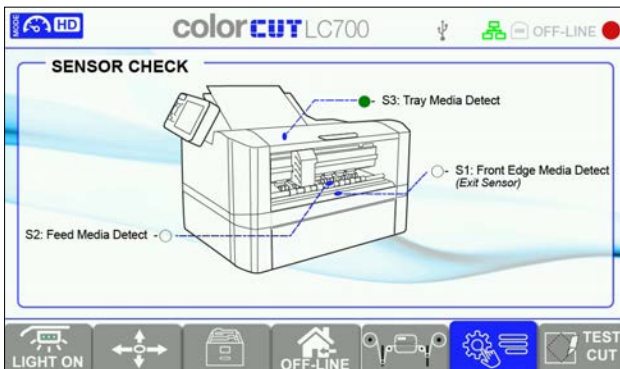
All configurable settings can be restored to their default values if necessary.



When [Upgrade now] is pressed Firmware Upgrade screen opens and new Firmware can be imported with USB.

3

Sensor Check



The sensor check screen allows to inspect the operating status of a given sensor.

When the sensor is obstructed, the indicator dot will transition to a green state, indicating successful detection.

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4. Remarks

Do's and Don'ts

- Always follow all warnings marked on, or supplied with, the equipment.
- Always exercise care in moving or relocating the equipment.

Caution:

Unplug the power cord from the wall outlet and machine before you move or relocate the equipment.

- Do not remove the covers or guards that are fastened with screws.
- Do not override or bypass electrical or mechanical interlock devices.
- Do not operate the equipment if you notice unusual noises or odours. Disconnect the power cord from the power source and call your authorized technician to correct the problem.

Warning:

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

NOTE: The domestic environment is an environment where the use of broadcast radio and television receivers may be expected within a distance of 10 m of the apparatus concerned.

- Do not switch off the power while the machine is running. Make sure the machine cycle has ended.
- Do not open covers while the machine is running.
- Do not move machine while the machine is running.
- Do not make arbitrary changes to the machine.
- Do not sit or step on the stacker tray. Stacker will break or machine will tilt over. The maximum load for the stacker tray is 15 kg.

Where to put Your Machine

Machine Environment

- Always locate the equipment on a solid support surface with adequate strength for the weight of the machine
- Always keep magnets and all devices with strong magnetic fields away from the machine

If the place of installation is air-conditioned or heated, do not place the machine where it will be:

- Subjected to sudden temperature changes
- Directly exposed to cool air from an air-conditioner
- Directly exposed to heat from a heater

Power Connection

- **Always** connect the equipment to a properly grounded power source. If in doubt, have the power source checked by a qualified electrician.

Warning:

Improper grounding of the equipment can result in electrical shock

- **Never** connect the machine to a power source that lacks a ground connection terminal. A missing ground will cause damage to electronics and cause machine malfunctions.

Maintaining Your Machine

Never attempt any maintenance function that is not specifically described in this documentation.

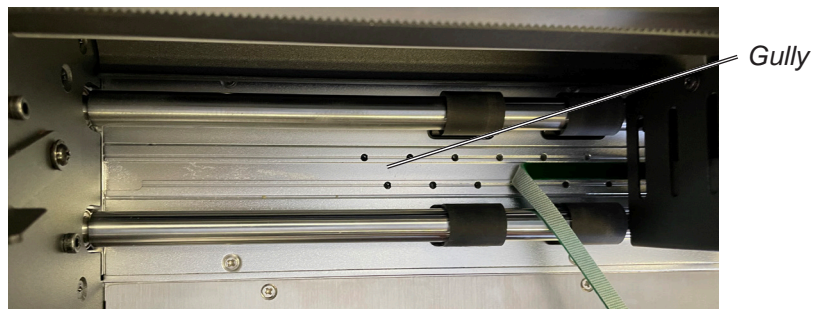
Cutting strip

The cutting strip should be checked for signs of wear daily, if the strip is damaged and worn it should be replaced.



Tools carriage Cutting strip

1. Turn off the machine and disconnect the power cord.
2. Open the top cover and manually move the Tools carriage if it is in front of the cutting strip's edge.



3. Peel off the cutting strip from one corner, dispose damaged strip.
4. Clean the gully of the glue residue with label cleaner. Leave it dry or dry it with cloth.
5. Stick the new strip down in the gully, cut it to the size.

Cleaning of tools

The tools should be checked and cleaned of paper dust weekly to ensure the blade rotates freely in the holder.



Outer cover



Blade with stud

Inner blade holder

1. Unscrew the outer cover, clean it with small brush or compressed air.

Caution:

Take caution with the blade to avoid cutting your hands!

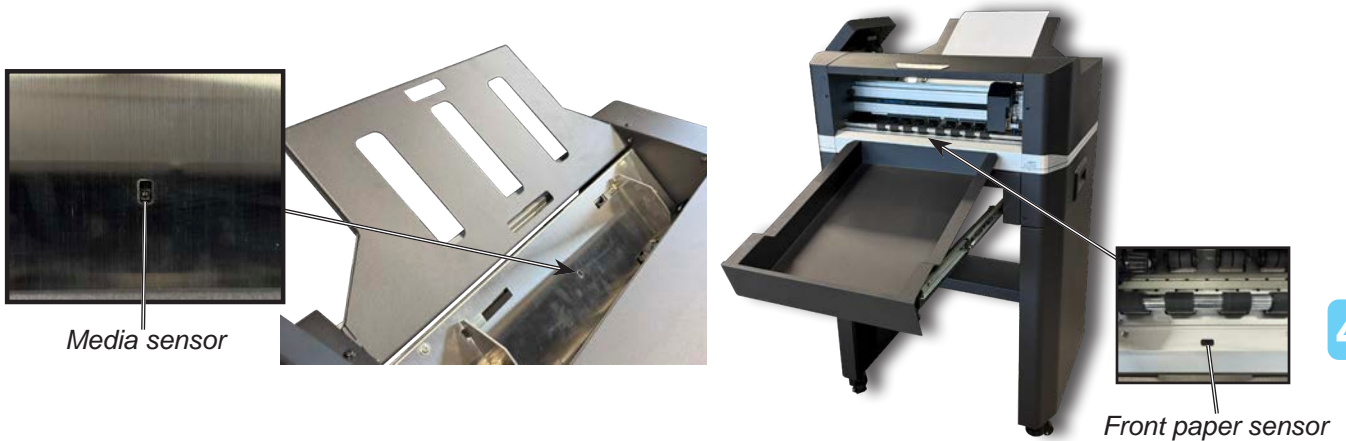
2. Take the blade out of the holder, clean from paper dust.
3. Lubricate the stud of the blade with bearing grease and put it back in the inner blade holder, screw back the outer cover.

Media optical sensors

The sensors need to be cleaned every day, more frequent cleaning may be required depending on media type. Using a lint free cloth, compressed air or soft bristled brush clean the sensors. Turn off the machine and disconnect the power cord before performing any procedures.

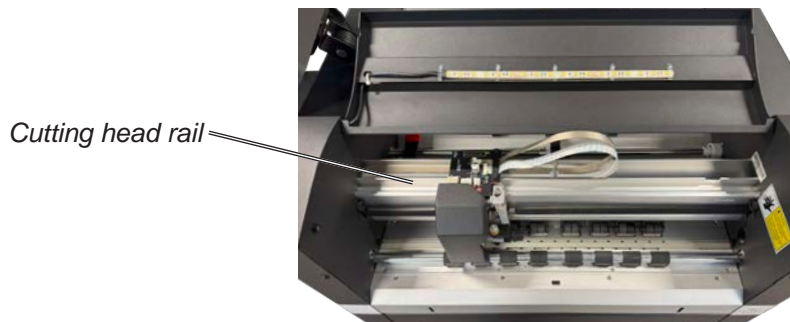
Caution:

Never use cleaning fluids on sensors!



Cutting head rail

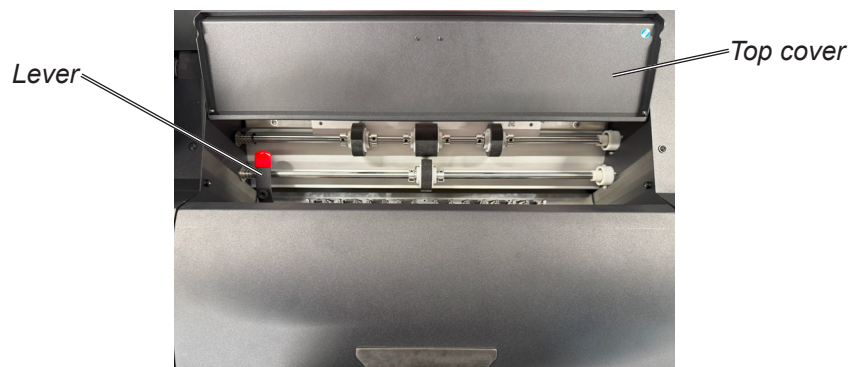
Weekly clean the Cutting head rail with engineer wipe and lightly lubricate top rail with PTFE lubricant spray.



Dual Grip Rollers

Clean the Dual Grip Rollers daily to remove any media or paper dust using compressed air, engineer wipes and brushes. Turn off the machine and disconnect the power cord before performing any procedures.

1. Open the top cover.
2. Pull the lever to release pressure on the rollers.
3. Clean from paper dust.
4. Push the lever to lower the rollers and close the top cover.



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5. Specifications

Media Handling		
Standard media sizes	A4, A3, SRA3, A3+ 320 × 480 mm (12.6"x 18.9"), max 330 x 750 mm (13" x 29.53")	
Custom sized label media	Width	Media width (min-max): 150 mm - 330 mm (5.91" x 13")
	Length	Media length (min-max): 190 mm - 750 mm (7.48" x 29.53")
Media thickness	0.14 mm (140 g/m ²) - 0.35 mm (350 g/m ²)	
Auto-sheet capacity	Up to 250 sheet auto-sheet feeder	
Tool Carriage		
Max speed/Max force	Up to maximum speed 1060 mm/s (41.7 in/s) / 750 gf (7.35N)	
Mountable tools	Single tool holder supports cutting blades (30°, 45° & 60°) and Pen calibration tool for auto-calibration	
Software & Connectivity		
ColorCut Pro 5-Plugin (PC)	ColorCut Pro 5 plug-in (all features available). ColorCut Pro sends projects designed in Adobe® Illustrator® or CorelDRAW® directly to Intec ColorCut cutter with no need to convert them to a different format. Requires: PC. Adobe® Illustrator® CS6, CC2018 - CC2026, or CorelDRAW® X8, 2017-2026 Graphics Suite	
ColorCut Pro 5-Plugin (Mac)	ColorCut Pro 5 Plugin for Mac enables the ColorCut Pro Job Library Client. Mac users add cut marks automatically to Illustrator files and assign QR codes and job numbers. The jobs are sent to the remote ColorCut Pro Job Library on a PC for cutting. Requires: Illustrator CC2020- 2026	
ColorCut Pro - Production Studio PC Standalone	ColorCut Pro (Job Server) version of ColorCut Pro is PC only and enables jobs created by the ColorCut Pro plug-in (above) to be cut at any time, without requiring Adobe® Illustrator® or CorelDRAW® and without having to re-open the original file	
PC minimum specification	Windows 10/11 Pro x64 bit. 4GB of RAM (8GB recommended). Recommended display resolution: 1280x960.	
Connectivity	USB (1 connection to PC is required), Ethernet LAN, Wi-Fi	
Registration Control & Job Management		
Registration system	Vision3 - High resolution CCD vision system reads registration marks on media, automatically adjusting cut lines to correct for scale or skew.	
Cut position accuracy	+/- 100 micron* (*Note: accuracy may be reduced if sheet is only held by single Grip roller)	
Auto job recognition	Yes: Cut file retrieval, supported through QR code (requires ColorCut Pro)	
Mixed job recognition	Yes	
Machine specifications		
Ratings	100-240 Vac ±10%	
	4.2 A average	
	50-60 Hz	
Weight (unpacked)	39kg	
Dimensions	690mm x 1010mm x 1285mm W D H	

Declaration of Conformity




EU & UK DECLARATION OF CONFORMITY ^[1]

No. ^[2] **N0008419 (A.1)**

Manufacturer ^[3] Plockmatic International AB, Telefonvägen 30, S-126 26 Hägersten, Sweden

This Declaration of Conformity is issued under the sole responsibility of the manufacturer ^[4]

Object of the Declaration ^[5] (Including all accessories)	
Model/Type ^[6]	F185-001, LC700
Name ^[7]	ColorCut LC700
Description ^[8]	Label cutter

The object of the declaration is in conformity with the requirements of the following documents ^[9]	
EU Directive ^[10] UK Statutory Instrument	Standard ^[11] UK Designated Standard
(MD) 2006/42/EC	EN ISO 12100:2010, IEC 60204-1
(EMC) 2014/30/EU S.I. 2016/1091	EN 55032:2015+A11:2020+A1:2020, EN 55035:2017+A11:2020, EN IEC 61000-3-2:2019+A1:2021+A2:2024, EN 61000-3-3:2013+A1:2019+A2:2021, EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019
(RoHS) 2011/65/EU & EU No. 2015/863 S.I. 2012/3032	IEC 62321-1:2013, IEC 62321-2:2021, IEC 62321-3-1:2013, IEC 62321-3-2:2020 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-8:2017
Additional information ^[12]	International certifications: FCC 47 Part 15 Subpart B, Class A, (ANSI C63.4:2014); ICES-003 Issue 7, Class A
Signed for and on behalf of ^[13]	Hägersten, 2026-04-23 09:58  Bengt Olenfalk Group Quality Manager

БЪЛГАРСКИ: 1) ЕС Декларация за съответствие; 2) Номер; 3) Производител; 4) Настоящата декларация за съответствие е издадена на отговорността на производителя; 5) Предмет на декларацията; 6) Модел/Тип; 7) Назначение; 8) Описание; 9) Предметът на декларацията, описан по-горе, отговаря на съответното законодателство на Съюза за хармонизация; 10) Директива; 11) Стандарт; 12) Допълнителна информация; 13) Подписано за и от името на

ČESKY: 1) EU Prohlášení o shodě; 2) Číslo; 3) Výrobce; 4) Toto prohlášení o shodě se vydává na výhradní odpovědnost výrobce; 5) Předmět prohlášení; 6) Model/Typ; 7) Označení; 8) Popis; 9) Vyšše popsaný předmět prohlášení je ve shodě s příslušnými harmonizačními právními předpisy Unie; 10) Směrnice; 11) Norma; 12) Dodatečné informace; 13) Podpisáno za a jménem na

DANSK: 1) EU-Overensstemmelseserklæring; 2) Nummer; 3) Producent; 4) Denne overensstemmelseserklæring udstedes på fabrikantens ansvar; 5) Erklæringens genstand; 6) Model/Type; 7) Betegnelse; 8) Beskrivelse; 9) Genstanden for erklæringen, som beskrevet ovenfor, er i overensstemmelse med den relevante EU-harmoniseringslovgivning; 10) Direktiv; 11) Standard; 12) Yderligere information; 13) Underskrevet for og vegne

DEUTSCH: 1) EU-Konformitätserklärung; 2) Nummer; 3) Hersteller; 4) Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller; 5) Gegenstand der Erklärung; 6) Modell/Typ; 7) Bezeichnung; 8) Beschreibung; 9) Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsrechtsvorschriften der Union; 10) Direktive; 11) Standard; 12) Weitere Informationen; 13) Zur Unterzeichnung und Namen

EESTI: 1) EU Vastavastuudeklaratsioon; 2) Number; 3) Valmistaja; 4) Käesolev vastavastuudeklaratsioon on välja antud tootja ainuvastutusele; 5) Deklareeritav; 6) Model/Type; 7) Nimetus; 8) Kirjelus; 9) Eelkirjelatud deklaratsioon toode on kooskõlas asjaomaste liidu ühtlustamisaktidega; 10) Direktiiv; 11) Standard; 12) Lisainfo; 13) Allkirjastatud ja nimel

SUOMI: 1) EU-Vaatimustenmukaisuusvakuutus; 2) Määrä; 3) Valmistaja; 4) Tämä vaatimustenmukaisuusvakuutus on annettu valmistajan yksinomaisella vastuulla; 5) Vakuutuksen kohde; 6) Malli/Typppi; 7) Nimitys; 8) Kuvaus; 9) Edellä kuvattu vakuutuksen kohde on asiaa koskevan unionin yhdenmukaisuuslainsäädännön vaatimusten mukainen; 10) Direktiivi; 11) Standardi; 12) Lisäinformaatio; 13) Allekirjoitettu ja puolesta

FRANÇAIS: 1) Déclaration UE de conformité; 2) Nombre; 3) Fabricant; 4) La présente déclaration de conformité est établie sous la seule responsabilité du fabricant; 5) Objet de la déclaration; 6) Modèle/Type; 7) Désignation; 8) Description; 9) L'objet de la déclaration décrit ci-dessus est conforme à la législation d'harmonisation de l'Union applicable; 10) Directive; 11) Standard; 12) Informations supplémentaires; 13) Signé pour et au nom de

GAEILGE: 1) Dearbhú comhréireachta AE; 2) Uimhir; 3) Manufacturer; 4) Tá an dearbhú comhréireachta ana eisiúint faoi fhreagracht an mhonaróra; 5) Cuspóir an dearbhaith; 6) Cineál; 7) Ainmniú; 8) Tuairisc; 9) Is é cuspóir an dearbhaith a thugtar i gcomhréir leis an reachtaíocht chomhchuidithe abhartha an Aontais; 10) Treoir; 11) Caighdeánach; 12) Eolas breise; 13) Ana shíniú le haghaidh agus thar ceann an

ΕΛΛΗΝΙΚΗ: 1) Δήλωση συμμόρφωσης ΕΕ; 2) αριθμός; 3) Κατασκευαστής; 4) Η παρούσα δήλωση συμμόρφωσης εκδίδεται με αποκλειστική ευθύνη του κατασκευαστή; 5) Αντικείμενο της δήλωσης; 6) Μοντέλο/Τύπος; 7) Ονομασία; 8) Περιγραφή; 9) Ο στόχος της δήλωσης που περιγράφεται παραπάνω είναι σύμφωνος με τη σχετική ενωσιακή νομοθεσία εναρμόνισης; 10) διεθυντικός; 11) Πρότυπο; 12) Επιπλέον πληροφορίες; 13) Υπογραφή για λογαριασμό και εξ ονόματος του

HRVATSKI: 1) EU izjava o sukladnosti; 2) Broj; 3) Proizvođač; 4) Za izdavanje EU izjave o sukladnosti odgovoran je isključivo proizvođač; 5) Predmet deklaracije; 6) Model/Tip; 7) Oznaka; 8) Deskrpcija; 9) Predmet navedene izjave u skladu je s mjerodavnim zakonodavstvom Unije o uskladjivanju; 10) Direktiva; 11) Standard; 12) Dodatne informacije; 13) Potpisao za i u ime

MAGYAR: 1) EU-Megfelelőségi nyilatkozat; 2) Szám; 3) Gyártó; 4) Ezt a megfeleléségi nyilatkozatot a gyártó kizárólagos felelőssége mellett adták ki; 5) A nyilatkozat tárgya; 6) Modell/Típus; 7) Kijelölés; 8) Leírás; 9) A fent ismertetett nyilatkozat tárgya megfelel a vonatkozó uniós harmonizációs jogszabályoknak; 10) Irányelv; 11) Standard; 12) További információ; 13) Aláírta nevében

SLVENSKA: 1) ESb Lpifysifirysing; 2) Fjrdil; 3) Framleiðandi; 4) Þessi samfyrifirysing er sett allfarri á ábyrgð framleiðanda; 5) Markmið yfirifysingarrinn; 6) Gerð; 7) Tilfening; 8) Lysing; 9) Markmið yfirifysingarrinn lýst er hér að ofan er i samræmi við viðeigandi Union samfyrifingur löggjafar; 10) Tilskiptur; 11) Standard; 12) Váðabrotuplysingur; 13) Undirritað fyrir og fyrir hönd

ITALIANO: 1) Dichiarazione di conformità UE; 2) Numero; 3) Produttore; 4) La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante; 5) Oggetto della dichiarazione; 6) Modello/Tip; 7) Designazione; 8) Descrizione; 9) L'oggetto della dichiarazione di cui sopra è conforme alla pertinente normativa di armonizzazione dell'Unione; 10) Direttiva; 11) Standard; 12) Informazioni aggiuntive; 13) Firmato e per conto di

LATVIEŠU: 1) ES Atbilstības deklarācija; 2) Numurs; 3) Ražotājs; 4) Šī atbilstības deklarācija izdoata tik gaminājot atsakomybe; 5) Deklarācijas priekšmets; 6) Modelis/tips; 7) Pavadnimas; 8) Aprašymas; 9) Pirmais aprašytas deklarācijas objekta atitinka susijusius derinamosius Sąjungos teisės aktus; 10) Direktiva; 11) Standartinė; 12) Papildoma informacija; 13) Pasirašyta ir vardu

MALTESE: 1) Dikjarazzjoni ta' konformità tal-UE; 2) Numru; 3) Manifattur; 4) Din id-dikjarazzjoni ta' konformità tinhareg taht ir-responsabbiltà unika tal-manifattur; 5) Għan tad-dikjarazzjoni; 6) Mudell/Tip; 7) Deżinjazzjoni; 8) Deskrizzjoni; 9) L-għan tad-dikjarazzjoni deskritt hawn fuq huwa konformi mal-legislazzjoni ta' armonizzazzjoni rilevanti tal-Unjoni; 10) Direttiva; 11) Standard; 12) Informazzjoni addizzjonali; 13) Iffirmat għal u f'isem il

NEDERLANDS: 1) EU-Conformiteitsverklaring; 2) Nummer; 3) Fabrikant; 4) Deze conformiteitsverklaring wordt verstrekt onder volledige verantwoordelijkheid van de fabrikant; 5) Voorwerp van de verklaring; 6) Model/Type; 7) Benaming; 8) Beschrijving; 9) Het hierboven beschreven voorwerp is in overeenstemming met de desbetreffende harmonisatiewetgeving van de Unie; 10) Richtlijn; 11) Standaard; 12) Aanvullende informatie; 13) Ondertekend voor en namens

NORSKI: 1) EU-Erklæring; 2) Nummer; 3) Produsent; 4) Denne samsvarserklæringen er utstedt under ansvar av produsenten; 5) Formålet med erklæringen; 6) Type; 7) Betegnelse; 8) Beskrivelse; 9) Formålet med erklæringen som er beskrevet ovenfor er i samsvar med relevante Union harmoniseringslovgivning; 10) Direktiv; 11) Standard; 12) Ytterligere informasjon; 13) Signert for og vegne av

POLSKI: 1) Deklaracja zgodności UE; 2) Numer; 3) Producent; 4) Niniejsza deklaracja zgodności wydana zostaje na wyłączną odpowiedzialność producenta; 5) Przedmiot deklaracji; 6) Model/Typ; 7) Oznaczenie; 8) Opis; 9) Wymieniony powyżej przedmiot niniejszej deklaracji jest zgodny z odnosnymi wymaganiami unijnego prawodawstwa harmonizacyjnego; 10) Dyrektywa; 11) Standard; 12) Dodatkowe informacje; 13) Podpisano imieniem

PORTUGUÊS: 1) Declaração UE de conformidade; 2) Número; 3) Fabricante; 4) A presente declaração de conformidade é emitida sob a exclusiva responsabilidade do fabricante; 5) Objecto da declaração; 6) Modelo/Tipo; 7) A denominação; 8) Descrição; 9) O objecto da declaração acima descrito está em conformidade com a legislação de harmonização da União aplicável; 10) Directiva; 11) Padrão; 12) Informações adicionais; 13) Assinado por e nome

ROMÂNĂ: 1) Declarația UE de conformitate; 2) Număr; 3) Producător; 4) Prezenta declarație de conformitate este emisă pe răspunderea exclusivă a producătorului; 5) Obiectul declarației; 6) Model/Tip; 7) Desemnare; 8) Descriere; 9) Obiectul declarației descris mai sus este în conformitate cu legislația relevantă de armonizare a Uniunii; 10) Directivă; 11) Standard; 12) Informații adiționale; 13) Semnat pentru și în numele

SLOVENŠKÝ: 1) EU Vyhlásenie o zhode; 2) Číslo; 3) Výrobca; 4) Toto vyhlásenie o zhode sa vydáva na výhradnú zodpovednosť výrobcu; 5) Predmet vyhlásenia; 6) Model/Typ; 7) Označenie; 8) Popis; 9) Uvedený predmet vyhlásenia je v zhode s príslušnými harmonizačnými právnymi predpismi Unie; 10) Smernice; 11) Štandard; 12) Doplnujúce informácie; 13) Podpísané za a v mene na

SLOVENŠČINA: 1) Izjava EU o skladnosti; 2) Številko; 3) Proizvajalec; 4) Ta izjava o skladnosti je izdana na lastno odgovornost proizvajalca; 5) Predmet izjave; 6) Model/Type; 7) Oznaka; 8) Opis; 9) Predmet navedene izjave je v skladu z ustrezno zakonodajo Unije o harmonizaciji; 10) Direktiva; 11) Standardna; 12) Dodatne informacije; 13) Podpisano za in v imenu

ESPAÑOL: 1) Declaración UE de conformidad; 2) Número; 3) Fabricante; 4) La presente declaración de conformidad se expide bajo la exclusiva responsabilidad del fabricante; 5) Objeto de la declaración; 6) Tipo de modelo; 7) Designación; 8) Descripción; 9) El objeto de la declaración descrita anteriormente es conforme con la legislación de armonización pertinente de la Unión; 10) Directiva; 11) Estándar; 12) Información Adicional; 13) Firmado por y nombre

SVENSKA: 1) EU-Försäkran om överensstämmelse; 2) Nummer; 3) Tillverkare; 4) Denna försäkran om överensstämmelse utfärdas på tillverkarens eget ansvar; 5) Föremålet för försäkran; 6) Modell/Typ; 7) Beteckning; 8) Beskrivning; 9) Föremålet för försäkran ovan överensstämmer med den relevanta harmoniserade unionslagstiftningen; 10) Direktiv; 11) Standard; 12) Extra information; 13) Undertecknat för och på uppdrag av