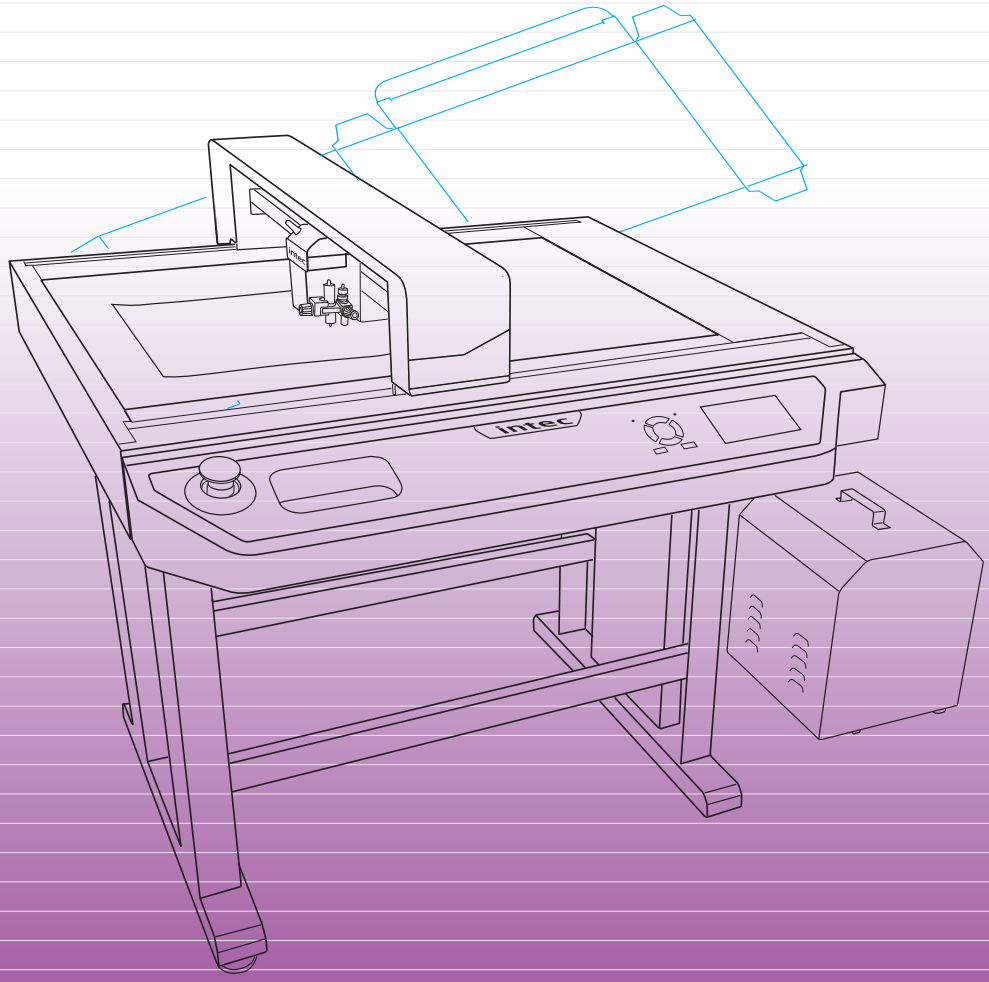
intec PRINTING SOLUTIONS | colorCUT

Dual Tool, Flatbed Digital Die-Cutters

ColorCut FB77/1175 Series

Installation & Setup Guide - English



Revision: 2.0 01 21

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1.1 Safety Information

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.
- Do not place hands or objects on the cutting table, when powered carriage beam moves to top of table and may strike objects and cause damage.
- Do not place hands or objects on the cutting table, when when in use, cutting carriage moves at fast speed and may strike hands or objects on the cutting table.
- Only place sheets or remove cut sheets when the cutter is not in operation.
- 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 Intec FB775/ FB1175 Flatbed Cutting table.
- Ensure that the wall socket used is grounded.
- Ensure that the connected voltage (230V) does not deviate by more than ±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 Intec FB775/FB1175 Flatbed Cutter is out of reach of 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.

1.2 Introduction - Digital Flatbed Table Cutting Solution

The Intec Flatbed cutting table (FB775/FB1175) is designed to cut card products, adhesive labels, synthetic, vinyl, and magnetic sheet materials effectively. It includes a 'Dual Tool' cutting head featuring 2 independent tools,' A cutting blade and creasing tool are supplied. Use of the creasing tool enables folding on suitable card materials without the fibres on the board breaking when the material is folded. (The creasing tool can be replaced by an additional cutting blade (Optional) if required, enabling Die-Cut and Kiss cutting functionality instead of Cut & Crease). There are also additional functions for cutting using perforated and dashed cut features, plus a pen calibration tool used for the initial configuration of the machine.

The ColorCut FB775/FB1175 Flatbed cutters consists of 2 parts:

Hardware

The Intec Digital Cutting Table with Integrated vacuum bed.
Integrated Vision3 CCD Sensor for automatic registration mark sensing
Automatic Job Recognition & Wi-fi Echo(Live preview) through Vision3 CCD sensor
A Stand
A Vacuum Pump to provide suction for vacuum table.
An Acoustic Muffler to reduce vacuum pump sound levels
A Vacuum connection hose
A separate external USB Wi-fi Dongle for PC systems (enabling, users to connect non wi-fi based PC's to view the ColorCut's Vision3 sensors' Live Preview)

Software

The ColorCut Pro - Production Studio cutter control software consists of 2 parts.

The **ColorCut Pro plug-in.** Enables you to simply add Page Registration Marks for cut jobs and provides the ability to send projects designed in Adobe Illustrator® or CorelDRAW® directly to the Intec ColorCut cutter (no need to convert them to a different format). In addition the ColorCut Pro plugin can assign Job numbers or QR codes and send jobs to the ColorCut Pro job library which can be running on the same or a *different* computer.

The **ColorCut Pro Production Studio.** A stand-alone version of ColorCut Pro, providing simple interface enabling jobs to be cut at any time, without requiring Adobe Illustrator or Corel Draw and without having to re-open the original file ideal for production environments, where the 'graphic designer' creates the work and other individuals within your company 'finish' or cut the work.

The ColorCut Pro software works in conjunction with the Vision3 CCD sensor integrated into your ColorCut hardware, detecting the PageMARK in a fraction of a second and adapting the cut path to any variations in the origin, scale or skew distortion of the print. The Vision3 CCD sensor can also read the QR code and retrieve your cut files instantly enabling any user to cut jobs as long as they have a QR code on them and enabling a mixed stack of jobs to be loaded for true unattended productivity.

Please use this guide to set up your ColorCut FB775/FB1175 cutter and install your ColorCut software. For details specifically on ColorCut Pro software and how to use it with your FB775/1175 cutter please refer to the separate - ColorCut Pro (FB775/FB1175 series) software guide.

INTEC COLORCUT FLATBED - SPECIFICATIONS

The Intec ColorCut FB775 and FB1175 series of flatbed cutters vary primarily by the size of the cutting area.

Model	Maximum Media Area	Effective Contour Cutting Area	Stand
ColorCut FB775	570 x 800mm	475 x 725mm	Yes
ColorCut FB1175	830 x 1180mm	730 x 1080mm	Yes

In addition to the primary difference in workspace area and the cutting area. The Intec ColorCut FB775 and FB1175 flatbed cutters have different vacuum control systems to provide media hold-down during cutting.

Model	Air Pump Vacuum Power	Vacuum Control	Accoustic Silencer
ColorCut FB775	750W	750W Fixed	Yes
ColorCut FB1175	1000W	1000W Fixed	Yes

Each cutter is supplied with 2 different cutting mats that are positioned on the cutting table; the green self healing mat is typically used for kiss-cut applications such as labels/decals or vinyl's. The Grey felt mat is actually the premium mat and is also known as the superior cutting underlay. This is used for cut-through applications and any application using the creasing tool, as the mat enables some 'give' therefore providing a better crease. In addition, the grey superior cutting mat can extend the life of your cutting blade for cut-through applications.

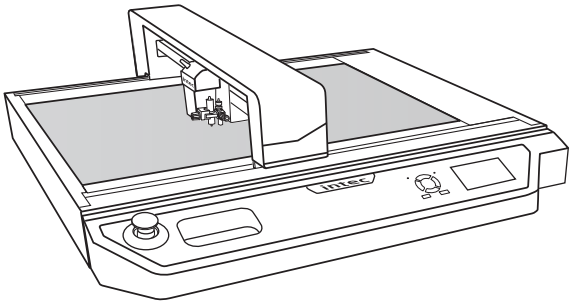
INTEC COLORCUT SC5000 - SPECIFICATIONS

MEDIA HANDLING	FB775	FB1175
Standard media sizes	A4 (210 x 297mm), A3 (297 × 420mm), SRA3 (320 × 450mm), SRA2 (450 × 640mm), also 2 x SRA3 at same time.	A4 (210 x 297mm), A3 (297 × 420mm), SRA3 (320 × 450mm), SRA2 (450 × 640mm), SRA1 (640 × 900mm), 4 x SRA3 at same time), or B1+ (720x1020mm)
Maximum Media Size	570 x 800mm	830 x 1180mm
Maximum Effective Cutting Area	475 x 725mm	730x1080mm
Media thickness (Cutting Depth)	0.17mm (150g/m²) - 0.1000mm (850g/m²)* *(Typically normal paper-card up to 750µ (0.75mm), soft card (Air freshener board up to 1000µ)*	
Media Hold	Vacuum Table, (750W Vacuum pump inc.)	Vacuum Table, (1000W Vacuum pump inc.)
DUAL TOOL CARRIAGE		
Tool Carriage Speed	Both tools provide variable speed - Three speed modes: Fast mode up to 1,200mm/s; SD Standard mode up to 960mm/s; HD High quality mode up to 750mm/s	
Mountable tools (Tool1)	14mm Ø Blade Holder (Supplied) & calibration pen (Supplied) for auto-calibration	
Tool1 (force)	Contour cutter, with up to **1,200gf** (11.77N) delivered in 190 steps programmable through Intec ColorCut Pro cutting software	
Mountable tools (Tool2)	14mm Ø Creasing Tool (Supplied), 14mm Ø Blade Holder (optional) for dual blade mode	
Tool2 (force)	Contour cutter, with up to **1,500gf** (14.71N) delivered in 190 steps programmable through Intec ColorCut Pro cutting software	
Blade Holder	Supports 0.9mm Ø, 30°, 45° or 60° Cutting Blades for labels & thin media & Supports 1.5mm Ø , 45° Industrial Cir-clip Blades for Die-Cutting up to 1000µ card.	
REGISTRATION CONTROL & JOB MANAGEMENT		
Registration system	Vision3 - 8th generation High resolution CCD vision system reads registration marks on media, automatically adjusting cut lines to correct for scale or skew.	
Cut position accuracy	+/- 125 micron* *(* Note: accuracy based on Registration targets applied)*	
Auto job recognition	Yes: Cut file retrieval, supported through QR code (requires ColorCut Pro)	

1.3 UNPACKING Contents of the ColorCut (Overview)

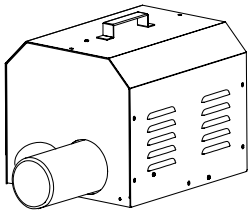
Your Intec ColorCut is packed in 1 crate.

The box contains :
The Intec ColorCut Cutting Engine. (Item (i))
The ColorCut Vacuum Pump (ii)
The Vacuum Pump Connector Hose (iii)
The Accessories box (iv)
And the ColorCut Stand (v)



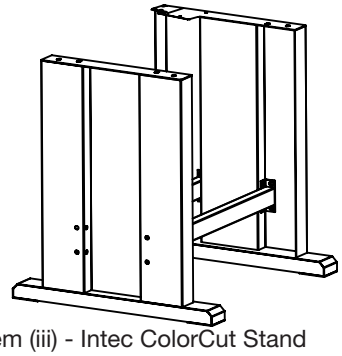
Item (i) - Intec ColorCut Cutting Engine

The ColorCut Vacuum Pump and Vacuum Hose provide the vacuum to hold down your media on the cutting table.



Item (ii) - ColorCut Vacuum Pump
(and Acoustic Silencer)

The stand provides a perfect ergonomic working height for your cutter.



Item (iii) - Intec ColorCut Stand

The final items found inside the accessories box include the power cable and USB cable plus a disk containing your ColorCut Pro Software and license code. A Blade Holder, a selection of Cutting Blades, a Calibration Pen Tool and a Creasing Tool.

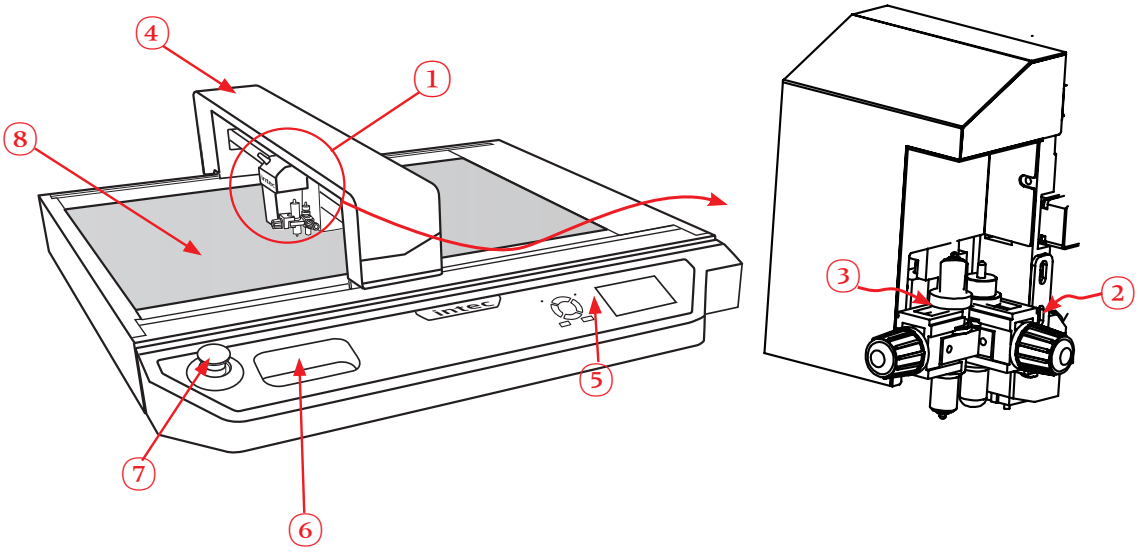
Item (iv) - Manuals, USB & Power Cables

1.4 UNPACKING Contents of ColorCut Flatbed (Detailed)

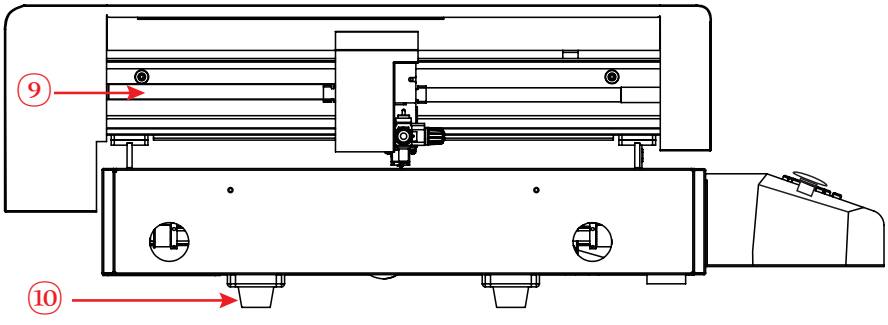
Item	Qty	Description / Purpose
Intec Flatbed Cutter	1	Main Cutting Engine
Vacuum Air Pump	1	Air fan that provides Vacuum
Hose Connector	1	Hose connector for side of cutting Engine.
Hose	1	Connects Vacuum Pump to Cutting Engine
Software (ColorCut Pro)	1	ColorCut Pro cutting control software - Direct plug-in for Illustrator or CorelDRAW, and stand alone Production cutting applications.
Blade Holder	1	Used for mounting the blades in Tool Holder 1 on the cutting head.
Pen Tool	1	Used in the calibration process for aligning the sensor to the cutting position
Creasing Tool	1	A dual ended, Ball Bearing-based tool to crease the media without breaking the fibres (2 crease widths are possible by using the dual ends)
Blades	3	1 x 30^{O} Blade (Yellow) 1 x 45^{O} Blade (Red) 1 x 60^{O} Blade (Blue)
Cir-clip Knife	6	3 x 45^{O} Circlip Knife for thicker media (Red) 3 x 60^{O} Circlip Knife for thicker media (Blue)
Self Healing Cutting Mat (Green)	1	Mainly used for cutting (Labels and Swing tickets)
Superior Felt Creasing & Cutting Mat	1	Used to improve creasing effect and extended blade life - Typically cut through / die cut applications- packaging - (cutting and creasing)
USB Cable	1	For connection to the computer
Silencer for Vacuum pump	1	Reduce noise for Vacuum pump FB775/ FB1175 (only) (Option for FB575)
Power Cable	2	1 for Digital Cutting Engine 1 for Vacuum Pump
M3 Six Angle Wrench		Backup tool
M2 Six Angle Wrench		Used to adjust the height of the creasing ball
10A Fuse		/

Please use this guide to set up your ColorCut Hardware.

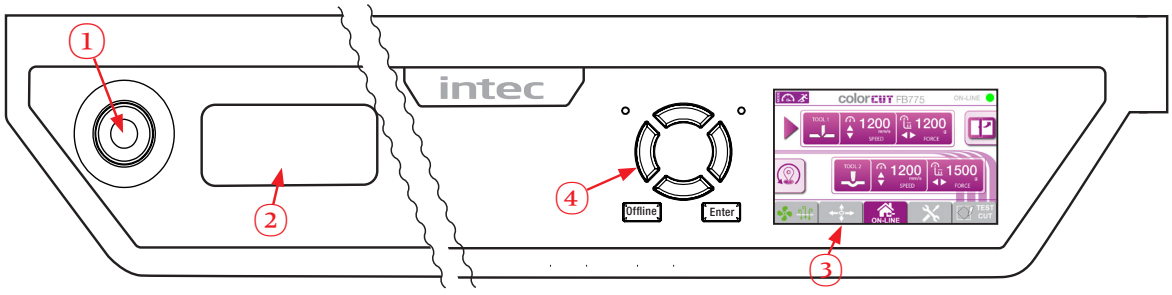
1.5 IDENTIFYING KEY FEATURES of your ColorCut Flatbed



① Tool Carriage.....Drives the cutter blade/pen/creasing tool forward/backward.
② Tool Holder 1..... Holds the cutter blade tool and drives it up/down.
③ Tool Holder 2..... Holds the pen/creasing tool and drives it up/down
④ Beam..... Holds the tool carriage; moves left/right.
⑤ Control Panel..... Used to set and use the cutter's various functions.
⑥ Tool Recess .....Recess for holding tools
⑦ Emergency Switch... In case of emergency turns off the power.
⑧ Cutting Area..... Vacuum bed and Contour Cutting Area.



⑨ Belt..... Drives the tool carriage forwards and backwards
⑩ Stabilisation feet.....Footing for machine when not using the stand.



1. The Emergency Stop Switch. (EMS), press to cut power in an Emergency.

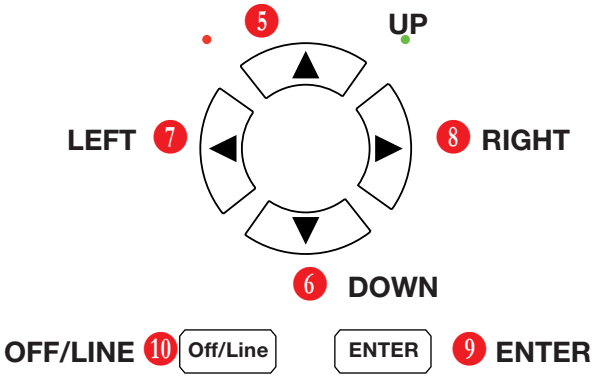
   Note: If no power/display appears on the LCD panel when you power the unit on please check the Emergency Stop Switch is not in the DE-PRESSED state, if it is, press and turn it fractionally to enable it to lift and return power to the unit.

2. The **Tool Tray.** The recess on the left side of the control panel screen can be used to store spare tools for quick access when changing between tool holders for cutting labels and tools for cutting card projects.

3. The **5" LCD Display.** The 5" LCD panel 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.

4. Pressing the light Grey TAB style buttons along the bottom of the LCD panel screen, enables users to enter the individual functions screens, the Hard buttons 5 - 10 can be used in each screen.

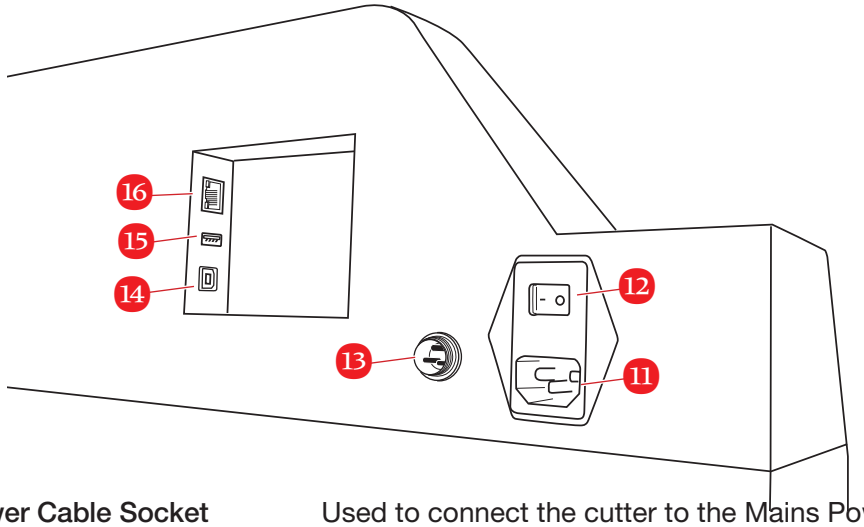
A range of Hard buttons can be found to left of the display.



Please see the following pages for detail of the function of these buttons.

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

1.5.1 Underside of Main Control Panel



⑫ **Power Cable Socket** — Used to connect the cutter to the Mains Power.

⑫ **Power switch** — Turns the ColorCut Digital Cutter ON/OFF.

TOP TIP

When viewed from above, the Powerswitch, is conveniently located at the intersection when the main Panel protrudes from the body of the cutter. You can place your hand there and slightly under the cutter when Turning On/Off the cutter.

⑬ **Vacuum pump connector** — The control cable connector for the Vacuum pump.

⑭ **USB interface connector** — Used to connect the cutter to a computer via the USB interface.

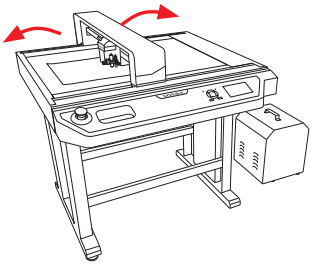
⑮ **USB Drive Interface.** — N/A - This feature is unavailable. Used for support purposes.

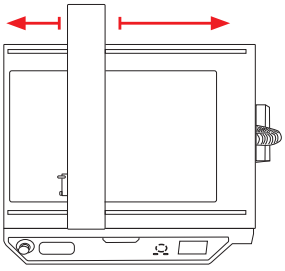
⑯ **Ethernet Connector** — Used to connect the cutter to a computer via the Ethernet/ LAN interface.

1.6 POSITIONING

The Intec ColorCut FB775 weighs 96Kg, while the larger FB1175 weighs 108kg. Both are supplied with a stand to provide an ergonomic working height. When deciding on where to position the cutter, follow the description applicable to your cutter for dimensions and working area on the following pages.

Be careful to leave space behind the cutter to allow for movement of the main beam forwards and backwards for the length of the table, and that no cables or items behind the cutter, obstruct the beams' movements.

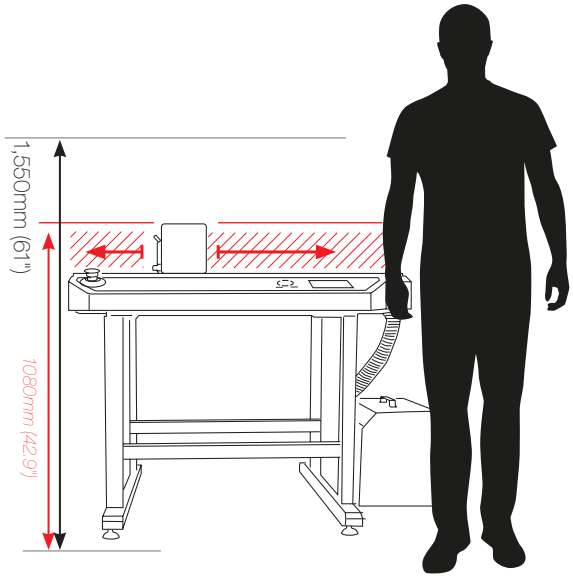




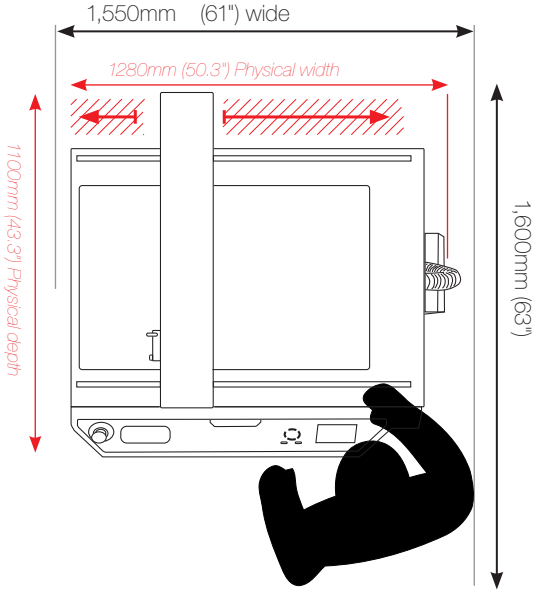
1.6.1 FB775 Positioning Requirements & Working Space

1. **Working Space is different to Machine dimensions.**
2. Ensure there is sufficient space at the rear of the FB775 to enable the Beam carriage to move freely and without obstructions.
3. Ensure there is sufficient space above the FB775 to enable the carriage beam to move easily and ensure that are no obstructions, that may prevent you from easily pressing the Emergency Stop Switch in case of a problem.
4. Ensure there is space in front of the machine to operate the control panel and to position sheets easily upon the machine.
5. Ensure there is space to the side of the machine for the Vacuum pump and the vacuum pump hose.

Working Space

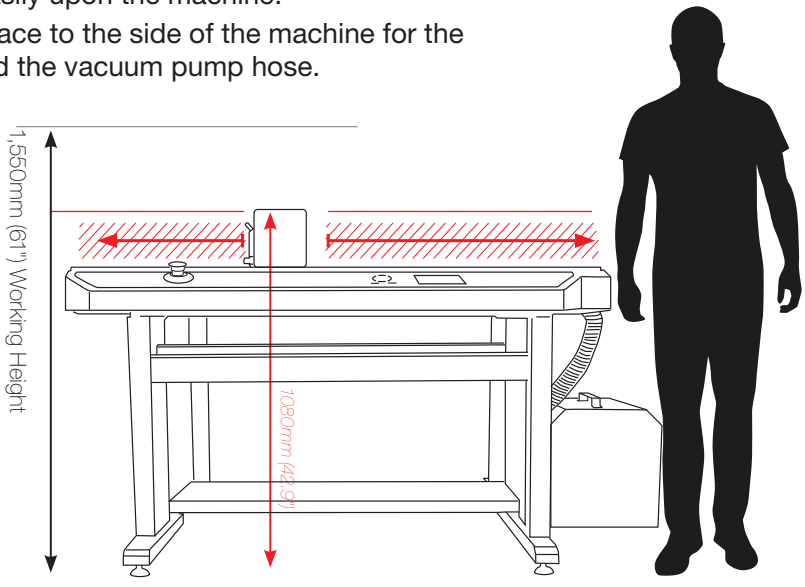


Working Space

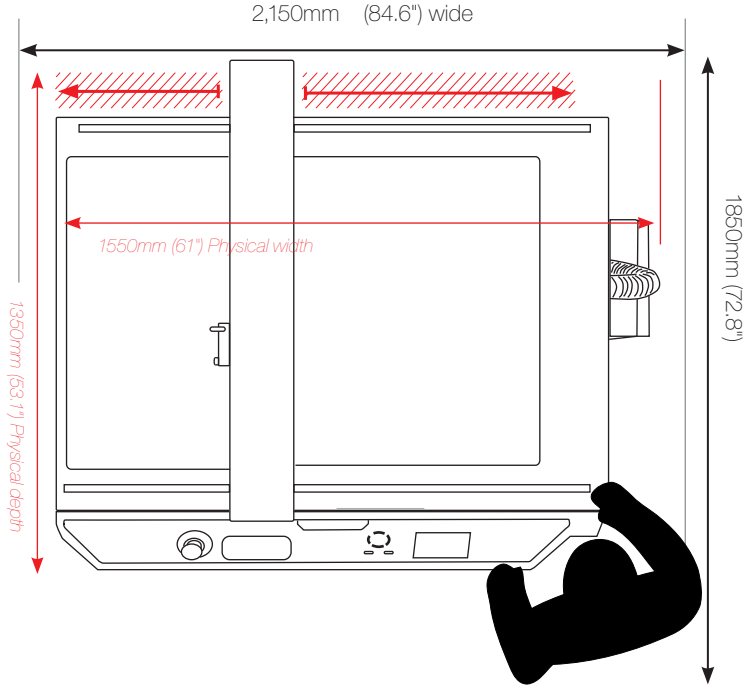


1. **Working Space is different to Machine dimensions.**
2. Ensure there is sufficient space at the rear of the FB1175 to enable the Beam carriage to move freely and without obstructions.
3. Ensure there is sufficient space above the FB1175 to enable the carriage beam to move easily and ensure that are no obstructions, that may prevent you from easily pressing the Emergency Stop Switch in case of a problem.
4. Ensure there is space in front of the machine to operate the control panel and to position sheets easily upon the machine.
5. Ensure there is space to the side of the machine for the Vacuum pump and the vacuum pump hose.

Working Space



Working Space
2,150mm (84.6") wide



2 - SETTING UP A WI-FI HOTSPOT

The FB775/1175 series of cutters use a Vision3 registration system in conjunction with the ColorCut Pro software to identify your cutting registration marks (PageMarks), and to read the QR code for retrieving job numbers.

Please Note: ColorCut Pro does NOT require a live video feed to do this, your cutting will work perfectly fine with no video connection as all this is all handled in the cutter. However, in addition to the 'on-board' registration and QR code handling, the Vision3 registration camera's control system includes an image echo function that broadcasts the video feed from the Vision3 sensor over Wi-Fi. You can connect to the live video stream using the ColorCut Pro application and view the video feed which is useful when cutting, helping you to identify issues and so you can see while placing sheets if you are working in a manual mode. manually, We do recommend you do enable this feature. Please follow the guide below on how to connect to the live video feed before launching ColorCut Pro.

2.1 Using Wi-Fi to connect the FB775/1175 - Live Video Feed

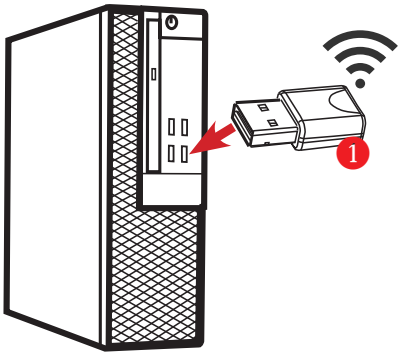
The FB775/1175's Vision3 registration system has a camera image echo function which sends the live video feed that the registration sensor is seeing, as an echo that is transmitted through WLAN. To connect to the Video feed, you will establish a Direct Wi-Fi connection from the computer that is running ColorCut Pro.

The FB775/1157 cutter will only connect to a 2.4GHz Wi-Fi Direct connection or Wifi-HotSpot defined as follows:

SSID: **H3**
Password: **12345678**

If your computer is not a laptop, then you may not have Wi-Fi capabilities on your PC, therefore your Intec FB775/1175 is supplied with a USB Wi-Fi Dongle 1. to enable you to do this.

If you are connected on a PC with a Wi-Fi connection (such as a laptop you can ignore this step).



1. Insert the Wi-Fi Dongle supplied with the FB775/1175 cutter.

2. When the dongle is recognised, please install the drivers (supplied in the Wi-Fi dongle box).

2.2 How to create a HotSpot (2 different approaches).

Once you have Wi-Fi enabled on your computer, there are 2 methods to establish a connection to your Intec FB775/1175 flatbed cutter.

1. Use the built in Windows HOTSPOT function. This is easy to use, and uses Windows 10's own HOTSPOT feature.

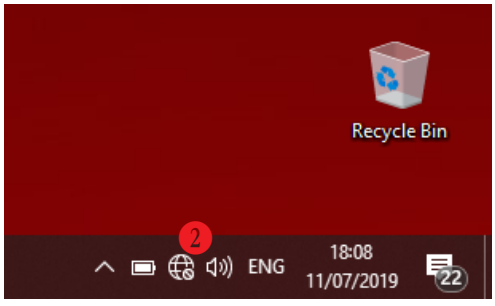
Note: Even though, you are will be connecting directly to the FB775/1175 cutter (and you are not using the internet for this connection), the Windows HotSpot feature requires an internet connection before you can enable the HotSpot. So please bear in mind, without an internet connection made via a router the Windows HOTSPOT feature can not be enabled. If you do not have an internet connection then we recommend creating a DIRECT connection (Below) which is how newer devices like some TV remote controls (Roku 3)work, to do this use a utility like **Wi-Fi Direct Access point** (below).

2. Use the Wi-Fi Direct Access Point. This is a paid for utility from the Windows Store, for Windows 10 users.

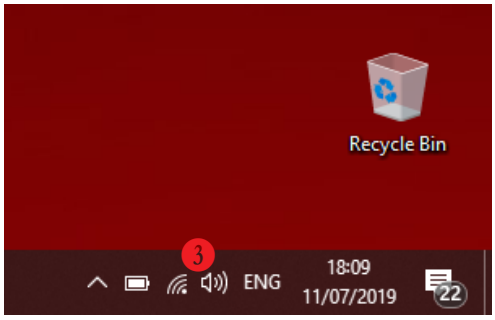
Wi-Fi Direct, makes a direct connection to the FB775/1175's Wi-fi video feed from the Camera eliminating any routers or network management issues. It does this using the Wi-Fi Direct standard, which enables devices to easily connect with each other without requiring a wireless access point. Wi-Fi Direct allows two devices to establish a direct Wi-Fi connection without requiring a wireless router.

2.3 Method 1 - Using Windows Wi-Fi HotSpot

1. Check the task bar on your computer and ensure you have an internet connection. If NO Wi-Fi connection shows, or the "Not connected to the Internet" icon shows 2 then click on the icon and connect to your Wi-Fi router and enter any ID or passwords required.

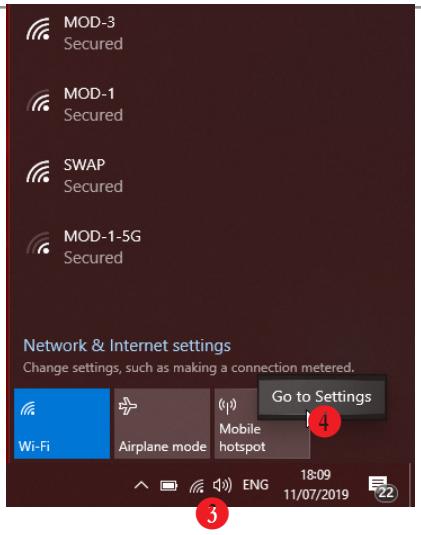


2. Check the task bar on your computer and ensure you have a the Wi-Fi connection showing 3. (This is essential to start the Wi-Fi HotSpot)

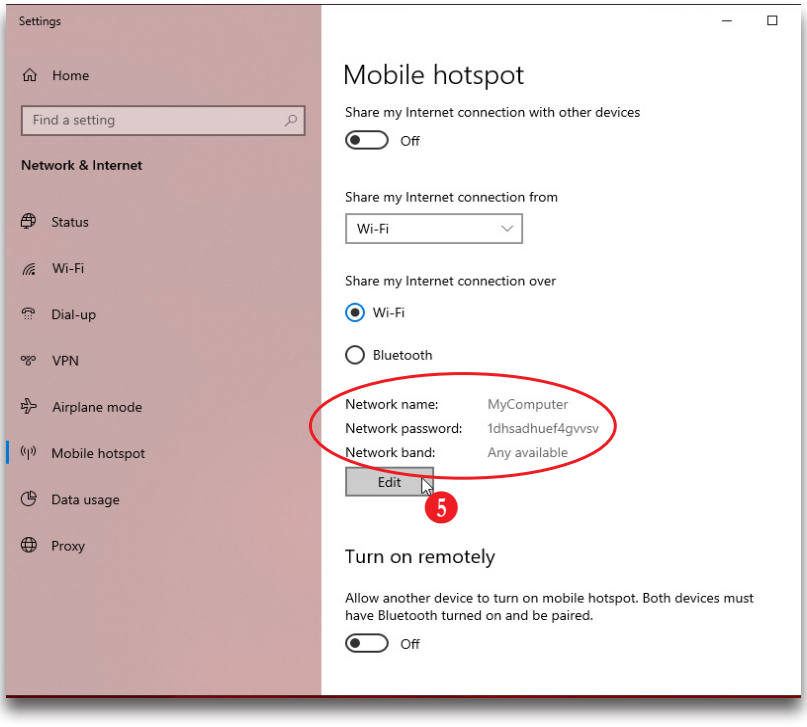


3. Left click on the Wi-Fi icon 3 in the task bar to display the 'Wi-Fi, Network & Internet setting' menu, then Right mouse click over the Mobile Hotspot 4 button in the lower right.

The sub menu item 'Go to Settings' will be displayed. Click this.



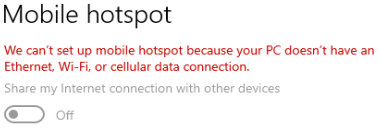
4. The '*Windows Mobile hotspot'* configuration menu will be displayed. This menu is only required when initially setting up the HotSpot. Each time you activate the HotSpot after this, the settings for the SSID, and Password will be remembered.



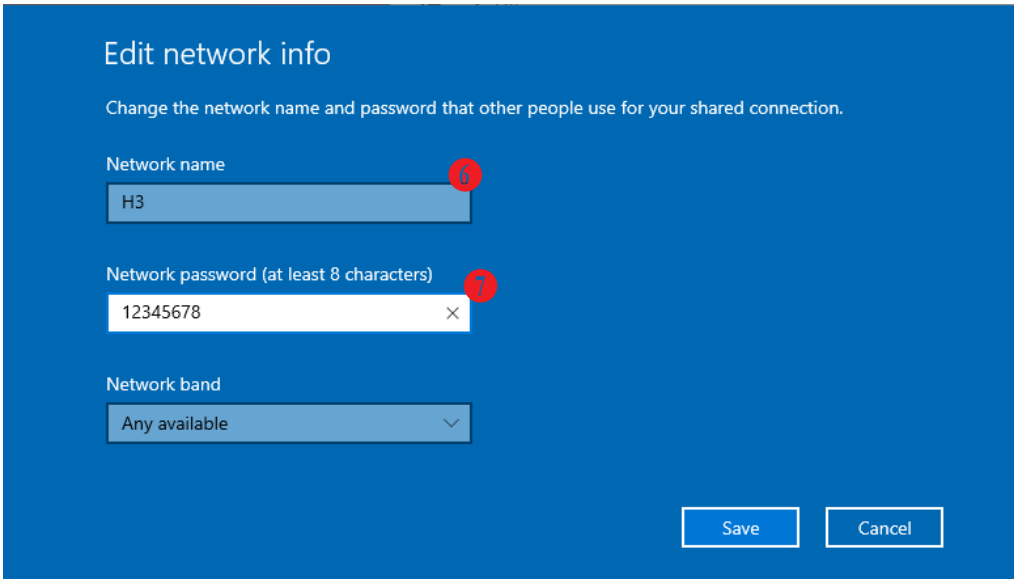
The Intec FB775/1175 series of cutters are set to make a direct connection to a 2.4GHz WLAN with an SSID of "H3", and broadcasts the Live video feed to that connection .

You need to set up your HotSpot to match this SSID name. Click Edit 5 to configure your Hotspot to 2.4GHz, and set your SSID and the password for connection.

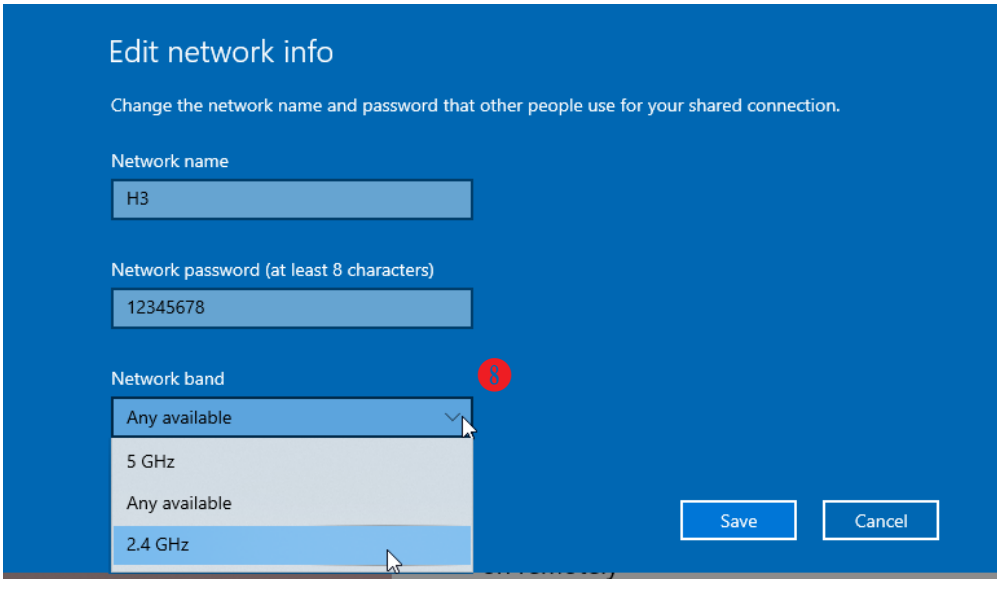
If you can't activate the HotSpot and you see the message show to the right, then you skipped step 2. You must ensure you have an internet connection to use Windows HotSpot, even though the cutter does not need one.



5. Under, *Network Name*, enter the SSID name '**H3**' as shown 6. Within the field, *Network password,* enter the password '**12345678**' 7 (The FB775/1175 will automatically try to connect to an SSID named "H3", with a password of '12345678'. So, these entries must be set to match.



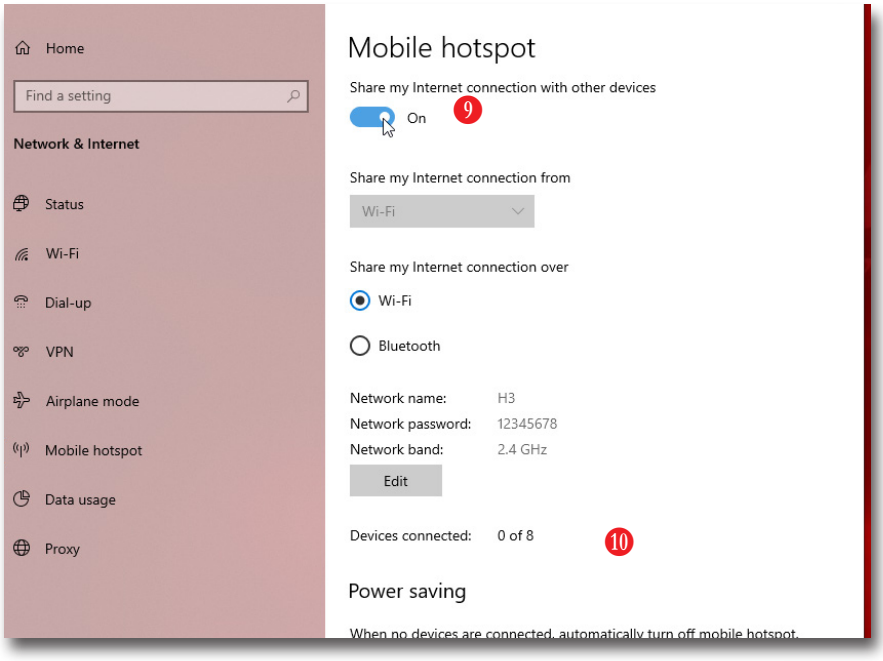
6. The FB775/1175's Vision3 Image Echo feature **ONLY** connects under 2.4GHz, so it is essential that you set the '*Network Band'* 8 to 2.4GHz, if you set it to 5GHz the cutter will not connect to your HotSpot and you will not be able to see the Camera.



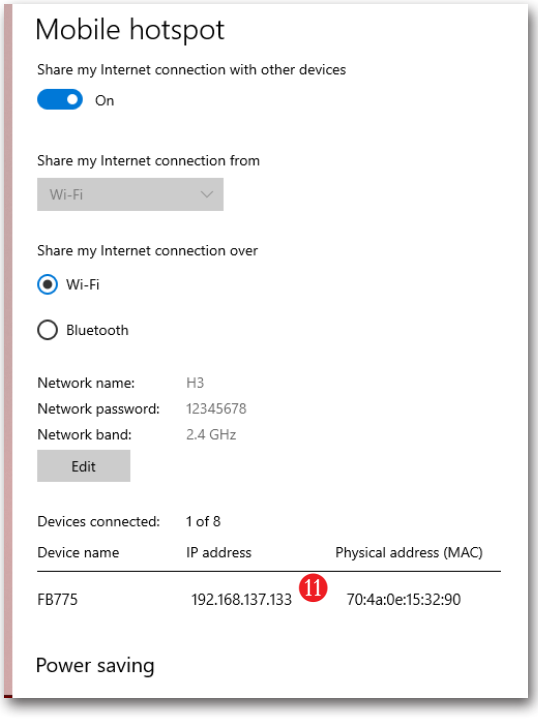
7. Click save to save finish and save your setting. These will be remembered and in future you only need to enable or disable the connection. When you click SAVE you will be returned to the '*Windows Mobile hotspot*' configuration dialogue box.

8. In the '*Windows Mobile hotspot'* configuration dialogue box, turn ON the *'Share my hotpot connection with other devices'* 9.

At the bottom of this dialogue box, you can see the devices that connect to your computer 10. It will take approx 30 secs to 2 mins for the Intec FB775/1175 to see the connection and connect to your Hotspot.



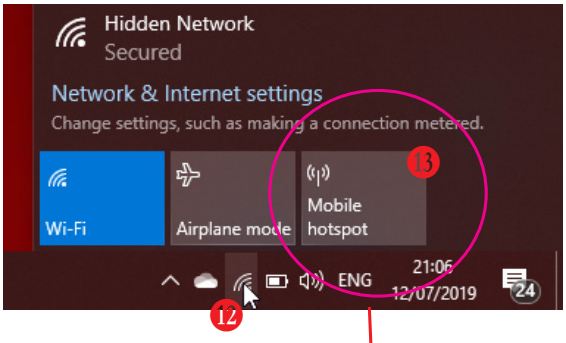
9. After a short period (30 secs to 2mins) you should see the Intec FB775/1175 device connect, the IP address will be shown in the connected devices list, so you know it has connected. 11.



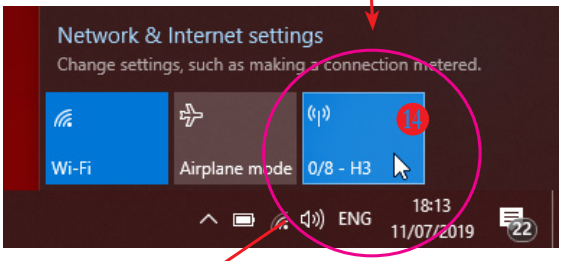
The setup is complete, in future, you only need to enable and disable your HotSpot, to connect to the cutter. (See step 10 to understand how to do this).

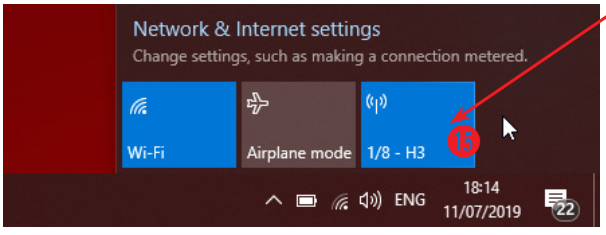
10. During daily operation you can now enable the connection to your Intec FB775/1175 cutter by simply clicking on the Wi-Fi icon in the Windows task bar 12 (Bottom right of your screen).

Next click on the Mobile HotSpot button 13 that appears in the lower right corner of the *'Network and Internet settings'* Dialogue box/menu that appears.



The Mobile HotSpot button will change color when it is activated, and indicate the SSID name (H3), and how many devices are connected. 14





After enabling the mobile Hotspot, ensure you power ON the Intec SC5000 cutter, and allow 30 secs - 2mins for it to connect to your HotSpot. Your Mobile HotSpot will show when the device is connected. 15

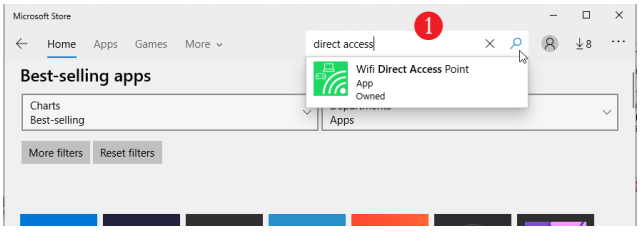
You can now skip to the section on Installing ColorCut Pro and calibrating your FB775/1175 cutter.

However, if you do not have an Internet connection then follow the steps on how to set up a direct connection to the Cutter without requiring an internet connection or router. (Wi-Fi Direct Access Point following.)

2.4 Method 2 - Using Wi-Fi Direct Access Point

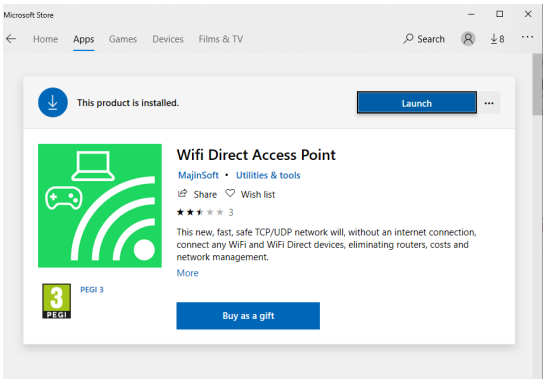
1. '**Wi-Fi Direct Access Point**' is an app available from the MicroSoft Store. It is available for Win 10 users and enables you to set up a Direct Wi-Fi connection to the Intec FB775/1175 Flatbed without the need for an internet connection or a separate router. It is ideal for users without connection to a router OR users in secure environments where connection to the Internet is not permitted for IT reasons, and as such the normal Windows Wi-Fi HotSpot will not work.

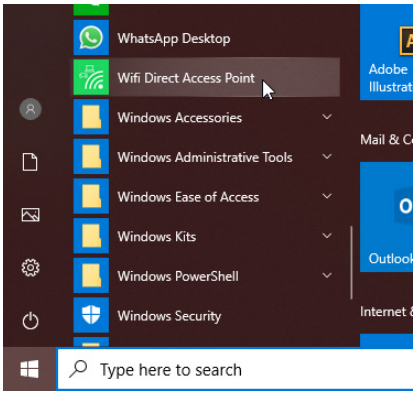
'Wi-Fi Direct Access Point' (and other apps may be available), is a paid for application available from the MicroSoft Store.



To download it, open the Microsoft Store program from your Windows Start Menu, and click on the SEARCH box 1, enter the search term 'Direct Access' and the app will appear in the search.

2. Click on the application and click [**GET**] to download it. (Note: This is a paid app and not part of the Intec FB775/1175, please check it is compatible with your Wi-Fi network (The USB Dongles supplied have been tested, so if you are using these it should be fine).



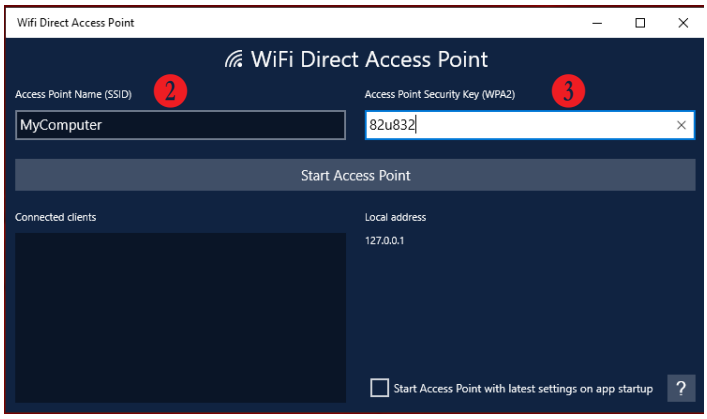


3. After installing the Wi-Fi Direct Access Point, locate the app from your Windows START Menu and click to launch it.

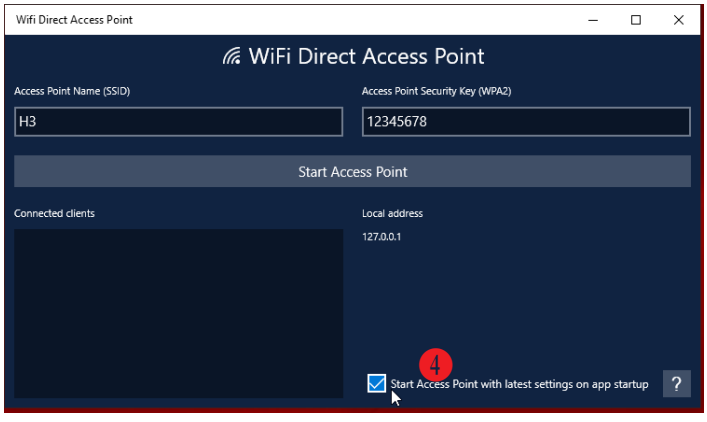
4. The first time you launch Wi-Fi Direct Access Point, you will need to set the Access Point Name (SSID) and the Security Key/Password to match the SSID and Password that your ColorCut FB775/1175 will try to connect to.

Click on the Access Point Name SSID 2 and set it to 'H3' .

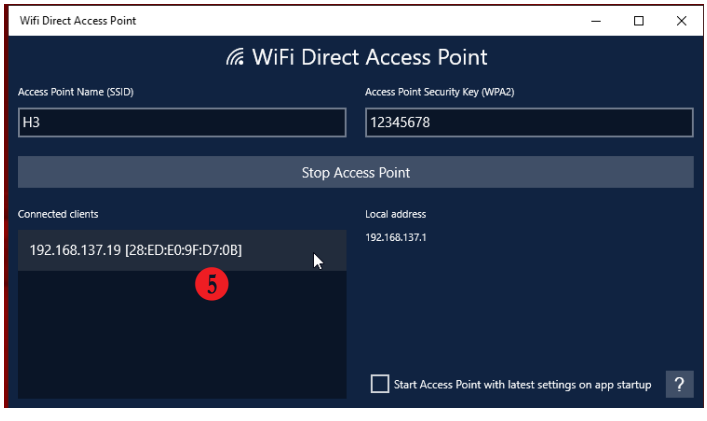
Click on the Access Point Security Key and set the password to '12345678' 3



5. Having entered the Access Point Name, and the Password ensure that is starts each time with the same settings by clicking the check box next to "Start Access Point with latest settings on app startup" 4 . Click on the button '**START ACCESS POINT**' to configure the PC to accept Direct Wi-Fi connections.



6. After clicking 'START ACCESS POINT', the FB775/1175 will take approx 30 secs to 2mins to see the Wi-Fi access point and connect. When the FB775/1175 connects, you will see the device and IP address appear in the left column, 5



You can now skip to the section on Installing ColorCut Pro and setting up your FB77/1175 for initial use and daily operation.

3. INSTALLATION of the ColorCut FB775/1175 Flatbed

INSTALLATION overview

3.1 Basic overview of installation steps

3.2. Parts for assembly

3.2.1 Stand components

3.2.2 Vacuum Pump components

3.3.1 Assembly of the stand and cutter

3.3.2 Connecting the Vacuum pump

4.1 Connecting and Power on the Cutter

4.2 Turning on the Cutter

5.0 FB775/1175 Control Panel Interface

6.0. Installation of the ColorCut Pro Software

- 6.1 Selecting your Device (Associating ColorCut Pro with your cutter)
- 6.2 Connecting your cutter to the computer
  - 6.2.1 Using USB
  - 6.2.2 Using a Network cable
  - 6.2.3 Finding the IP address of the cutter

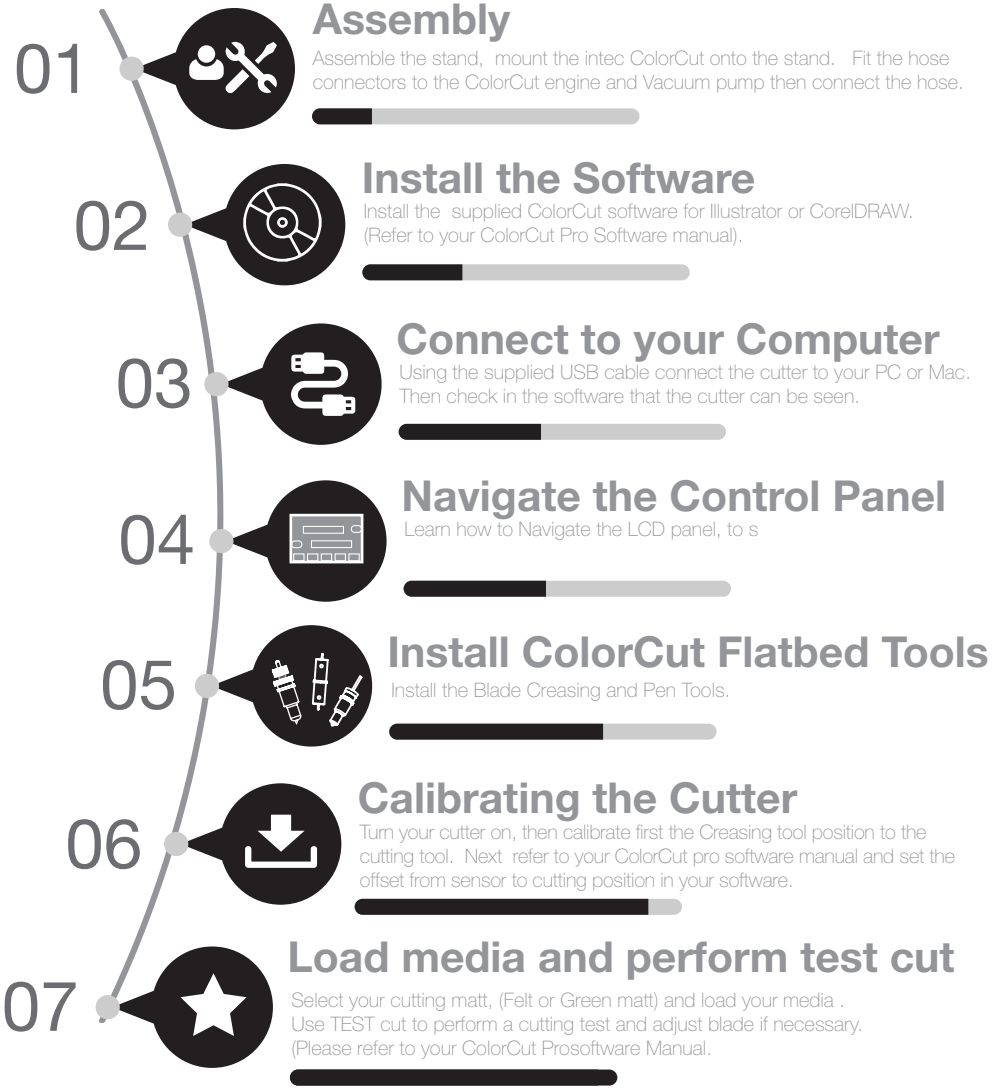
8. Tools

- 8.1 Blade Types,
- 8.2 Blade Holder
- 8.3 Installing Tools
- 8.4 Calibration of the Creasing Tool to the Cutting Tool

9. Setting up to Cut for the first time

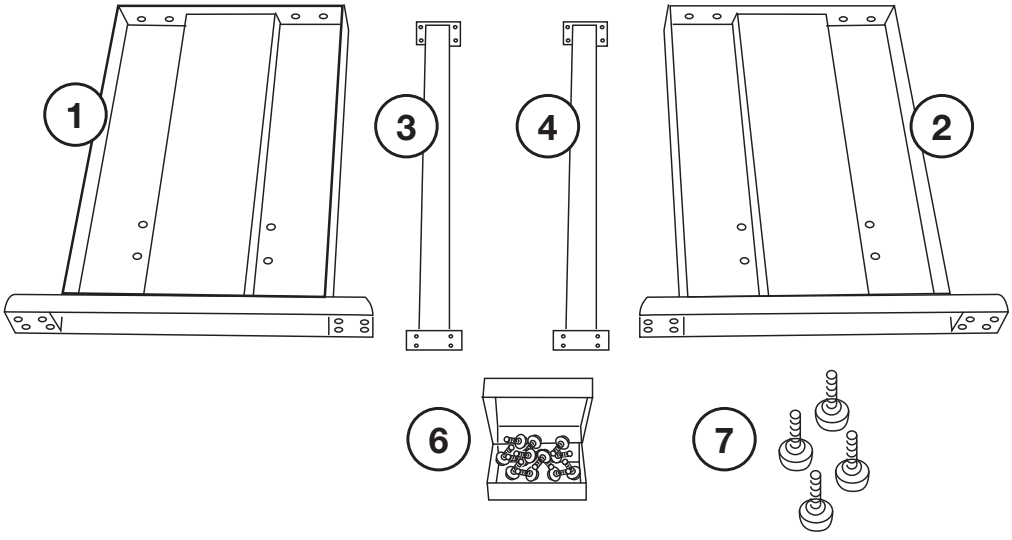
- 9.1 Calibrating the cutting position (accuracy of cutting)
- 9.2 Checking Blade depth

INSTALLATION START



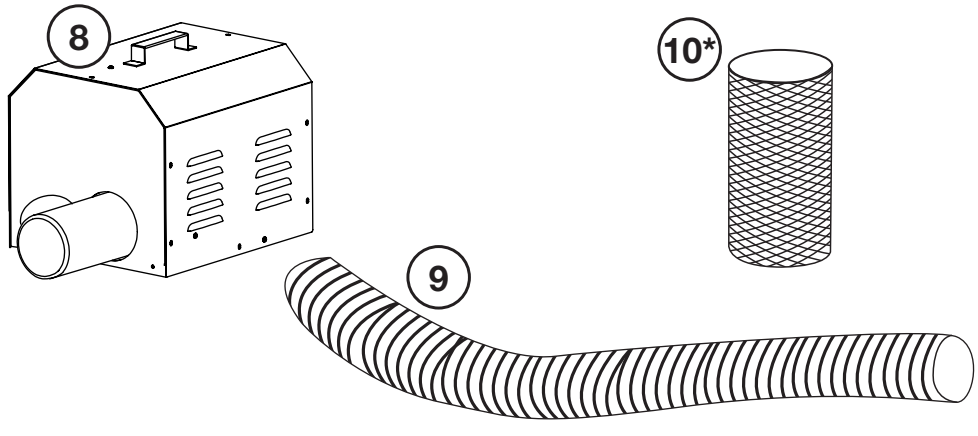
INSTALLATION FINISHED

Component parts of the stand



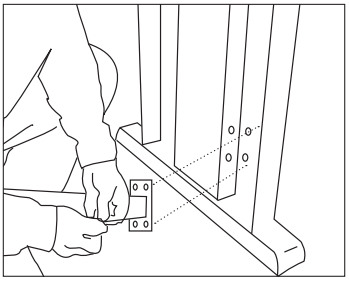
1. Left side panel/leg
2. Right side panel/leg
3. Front cross member
4. Rear cross member
6. Castors x 4 free-wheel
7. Bolt, washers, fixings

Component parts of the vacuum fan pump

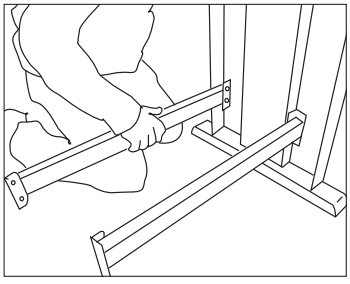


8. Acoustic pump
9. Flexible hose
10. Silencer (*Option on FB550)

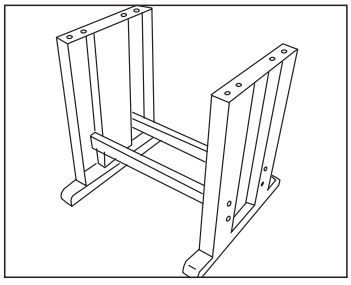
Assembly of stand



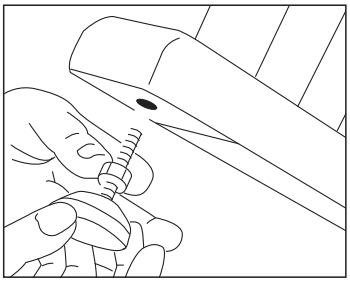
Locate one side panel, both cross members and Bolts



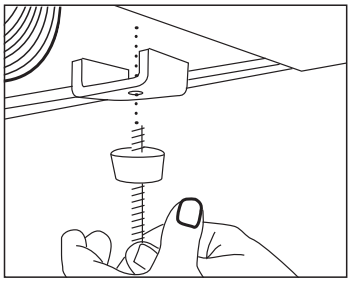
Using the black bolts to attach the cross members.



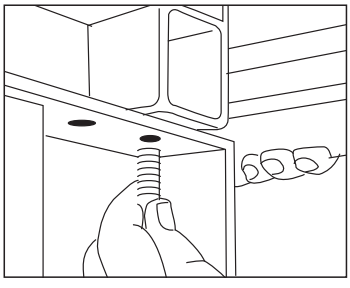
Then attach the other side panel using same method.



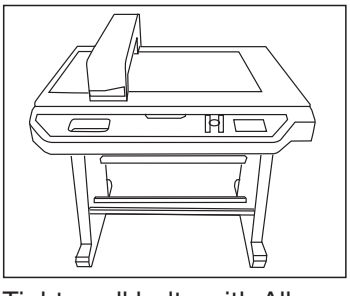
Screw the stand feet into the bottom of side panels



Remove the Rubber feet from the base of Flatbed.

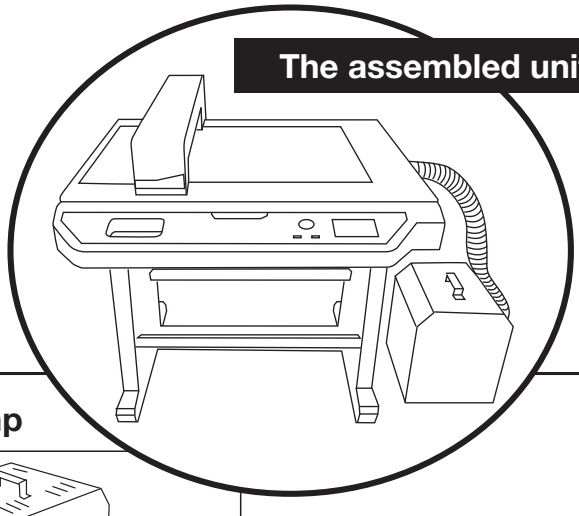


Locate the Flatbed on the stand and fix with bolts.

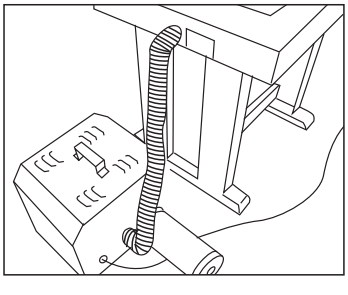


Tighten all bolts with Allen key supplied.

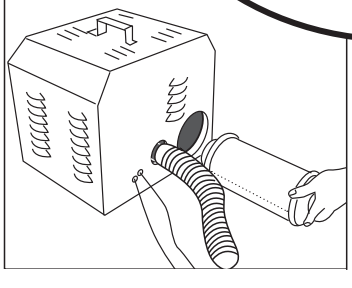
The assembled unit



Assembly of vacuum fan/pump



Connect vacuum hose
(FB550 use supplied connectors)



Attach Silencer
(Optional for FB550 models)

ColorCut Pro Overview

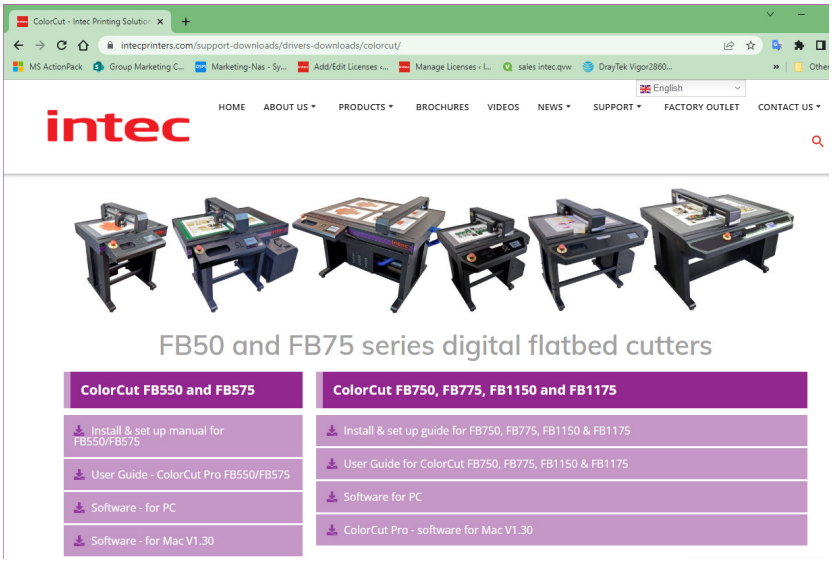
The Intec ColorCut Pro software is a professional cutting package that works directly from Illustrator or CorelDRAW. The plug-in requires Adobe Illustrator® or CorelDRAW® to be installed.

Intec ColorCut Pro™ gives you the ability to send projects you've designed in Adobe Illustrator® or CorelDRAW® straight to your Intec ColorCut Flatbed. The plug-in allows experienced Illustrator® or CorelDRAW® users to skip SignMaster® enabling a much faster entry into using your Intec ColorCut with no need to learn a new application.

Intec ColorCut Pro Software for your Intec ColorCut Flatbed is supplied on the included CD, however it may also be downloaded from our website http://intecprinters.com/support-downloads/drivers-downloads/colorcut/

Please note:

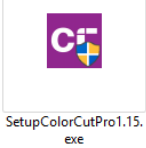
You require Illustrator (MAC or PC) or CorelDraw (PC Only) to create cut lines and cut your projects. Please ensure one of these packages is installed prior to proceeding.



ColorCut Pro Installation

Before starting ENSURE, Adobe illustrator or Corel Draw is not running during the installation. Otherwise, you may not be able to [illegible]g-ins in your application.

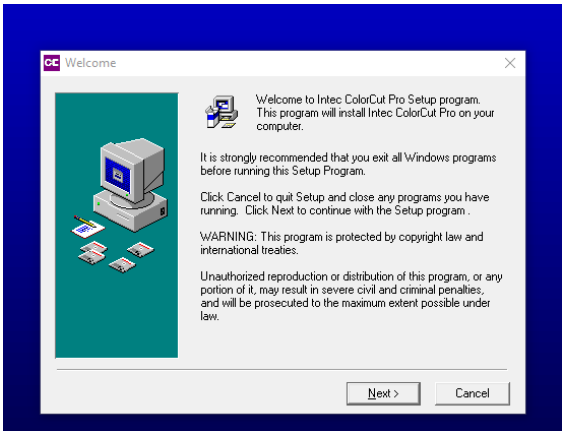
Please run the installation program:
SetupColorCutPro.exe

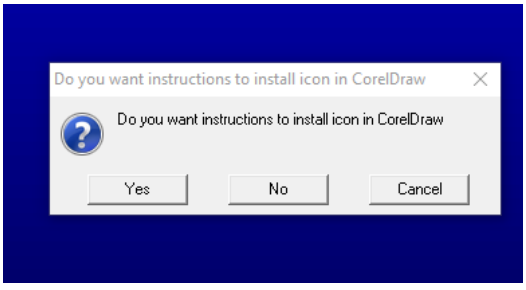


The setup program requires various confirmations for the installation of the program.

On some computers you could be asked the system administrator's password to execute the installation. In the case THAT you do not have this information; contact the technician who administrates your system.

To start the installation of the ColorCut Pro software, simply click the [NEXT>] button.





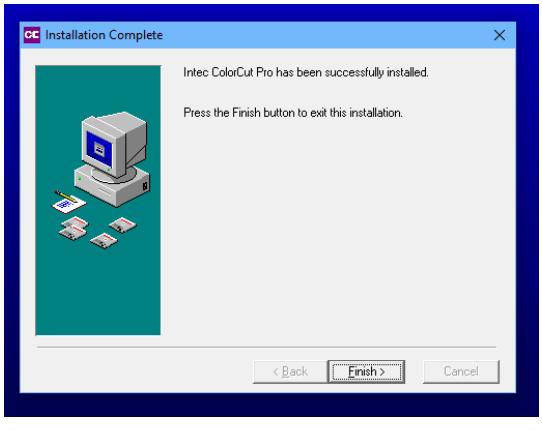
If Illustrator is installed on your computer, please ensure it is not open and running, otherwise, after the installation you will be asked to restart your system before starting ColorCut Pro.

By default the ColorCut Pro plug-in software will automatically install into Adobe Illustrator if it is installed on your computer.

If you have CorelDraw then the Plug-in for CorelDraw will also be installed at this time. **If you have CorelDRAW, SKIP to the next page.**

If you have Adobe Illustrator, then when the installation has finished click [NO] on the dialogue box asking you if you wish to review the CorelDRAW installation instructions.

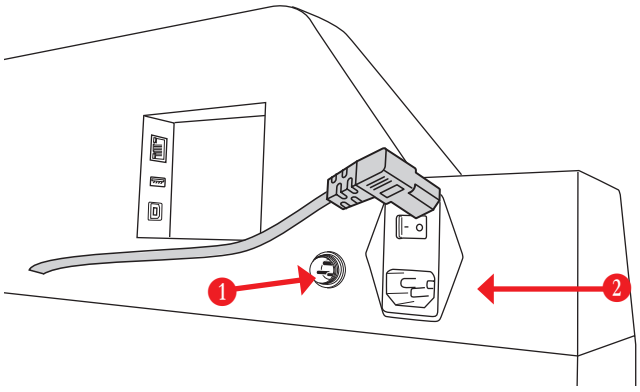
You should now advance to section 3.3 (Connecting to your computer) in this manual.



3.3.1 Connecting and powering on the cutter.

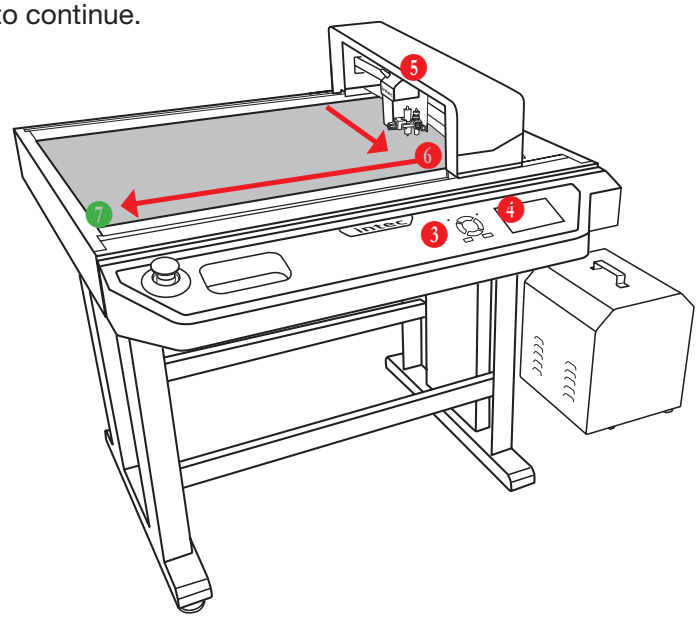
Turning the cutter on (The Initialisation Process)

1. Connect the control cable for the Vacuum Pump to the Vacuum Pump control jack on the underside of the control panel 1. Securely plug the power cord into the mains socket 2 on the control panel and connect to an electrical outlet of the specified voltage.



2. Turn on the power.

3. The green power lamp 3 on the control panel will light, the LCD display 4 will illuminate. A Safety message will appear on the LCD panel asking your to press the **[ENTER]** key to continue.



4. Next the Intec ColorCut Flatbed digital cutter will move the Tool Carriage 5 to the closest point as shown in the figure above and then the beam 6 will move to the ZERO point (furthest left point as indicated with the green 7 mark above) .

These operations are part of the initialisation process; once the Tool Carriage has moved to the front point and the beam to the furthest left point (The cutter has determined the ZERO Origin point) and the display will change to display the HOME screen and the cutter is ready for use. (Ensure the Cutter is ON-LINE before proceeding).

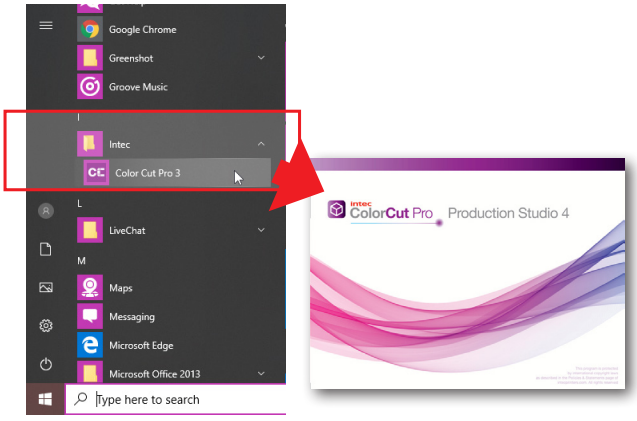
ColorCut Pro supports a number of different Intec cutters with different registration sensing methods, number of tools and manual or autofeeding methods. Therefore various 'Skins' which display options and screens will be unique to your specific cutter model and its features (i.e. the FB775 (or FB1185)).

To configure ColorCut Pro to match your cutter, you will need to launch the ColorCut Pro application, and set the cutter within the [**SETTINGS**] option.

1. Open ColorCut Pro from Windows menu

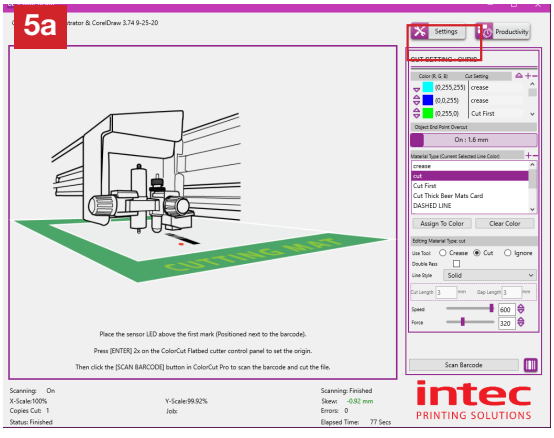
Open the Windows [START] menu and select ColorCut Pro from the Programs/Intec folder.

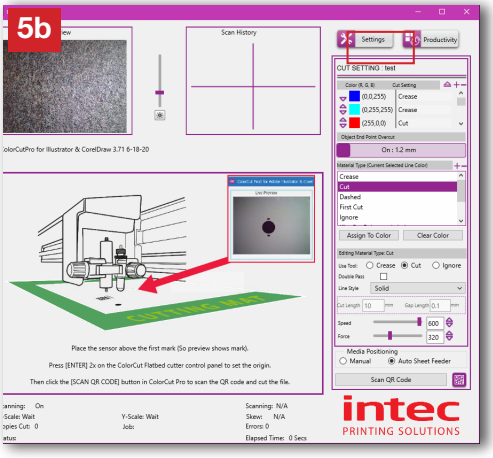
The ColorCut Pro splash screen will briefly appear, then the main ColorCut Pro application will be displayed.



The Settings Button **1** opens a dialogue box which displays the current configuration settings and enables you to set or change the Cutter "Device Type" / skin that ColorCut Pro has been customised to match.

Depending on the current selection, your main screen may look like **5a** or **5b**.

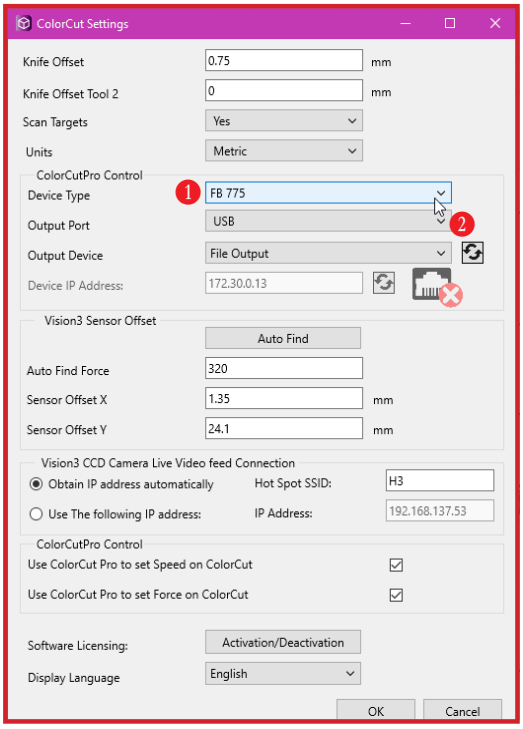




2. Click the [**SETTINGS**] button to open the settings dialogue window.

3. The “Device Type” 1 setting shows the type of Intec Cutter that ColorCut Pro is configured to.

The appearance of the main screen layout, the connections that are possible (USB (and/or Ethernet), Productivity controls, dialogue boxes and Tool controls will change based upon the “**Device Type**” selected, and not all connection options or features will be available as detailed in this manual unless you have selected the cutter type to match your Intec FB775 or FB1175 Model.



To ensure ColorCut Pro displays correctly to match your FB775 or FB1175 cutter please set the cutter type to the Model Name that matches your cutter (**FB775 or FB1175).**

3.3.3 Connecting to your computer

The FB775 / FB1175 support either USB or Ethernet (Wired) connection. The Intec ColorCut Pro software includes software drivers built into the cutter software. There is no need to install any addition drivers.

You can now connect the USB or Ethernet cable to the cutter.

3.3.4 Connecting using USB

Please note, when connecting using USB, operation can not be guaranteed in the following circumstances:

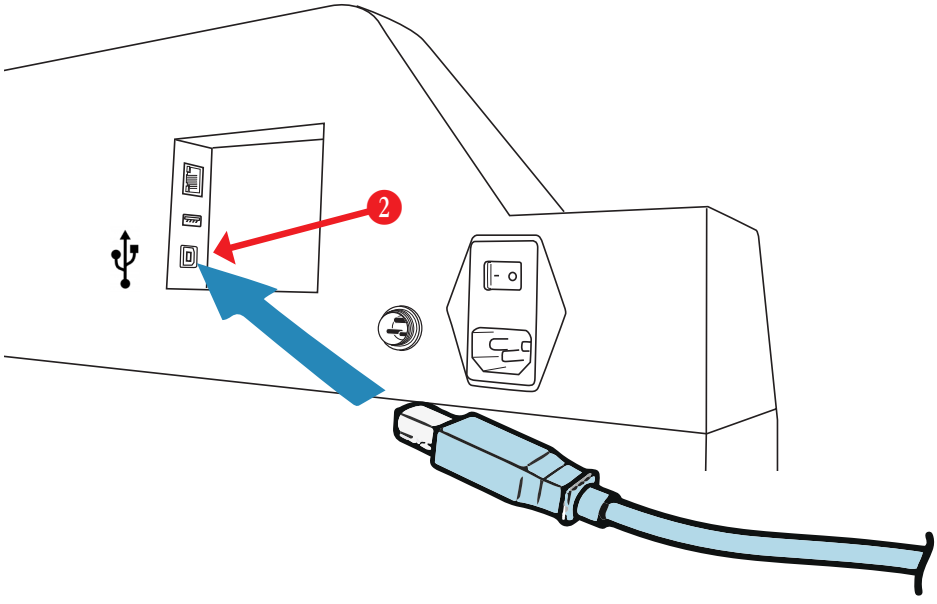
1) When connection is made through a USB hub or an add-on USB board.

2) When you are using a custom-built computer that has been modified.

3) When other USB devices such as USB printers are conencted.

When connecting using USB - for optimal results, please ensure the following:

- Do not connect or disconnect the USB cable while you are installing the Intec ColorPro software.
- Do not connect or disconnect the USB cable while starting up the computer.
- Do not connect or disconnect the USB cable while switching on the cutter.
- Do not disconnect the USB cable within a 5 second period of connecting it. (It does not always recognise the fact it was subsequently disconnected and won't reconnect again until you power-cycle both devices)
- Do not disconnect or connect the USB cable while you are cutting a job, or while data is being transferred.



3.3.5 Checking USB Output device is recognised

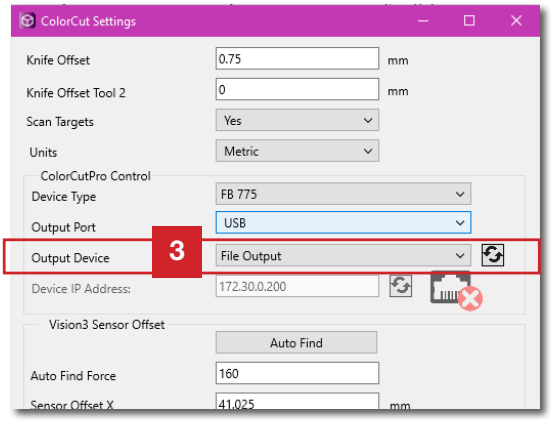
Check your cutter is connected to and recognised by your computer.

If the Intec ColorCut Pro software cannot sense an Intec ColorCut Flatbed cutter on the USB connection of your computer, then under the "Output Device" option in the [SETTINGS] window (3) it will show: *"File Output"*.

Please see image on following page:

If [Output Device] shows *"File Output"* (3), check your connection to your computer. Check your USB cable is connected directly (NOT through a hub) and that you have NO OTHER USB printign or cutting devices conencted.

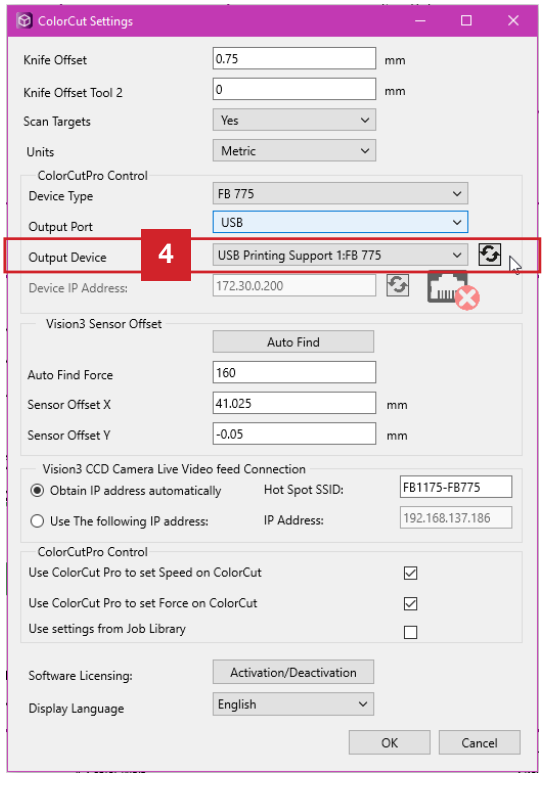
Then power cycle your Intec ColurCut Flatbed cutter. (Ensure it is off for 45 seconds to enable the USB cache to flush). Check that you have cleared the SAFETY MESSAGE that appears at power on, on the LCD panel of the cutter AND that the FB775 / FB1175 cutter is **ON-LINE**.



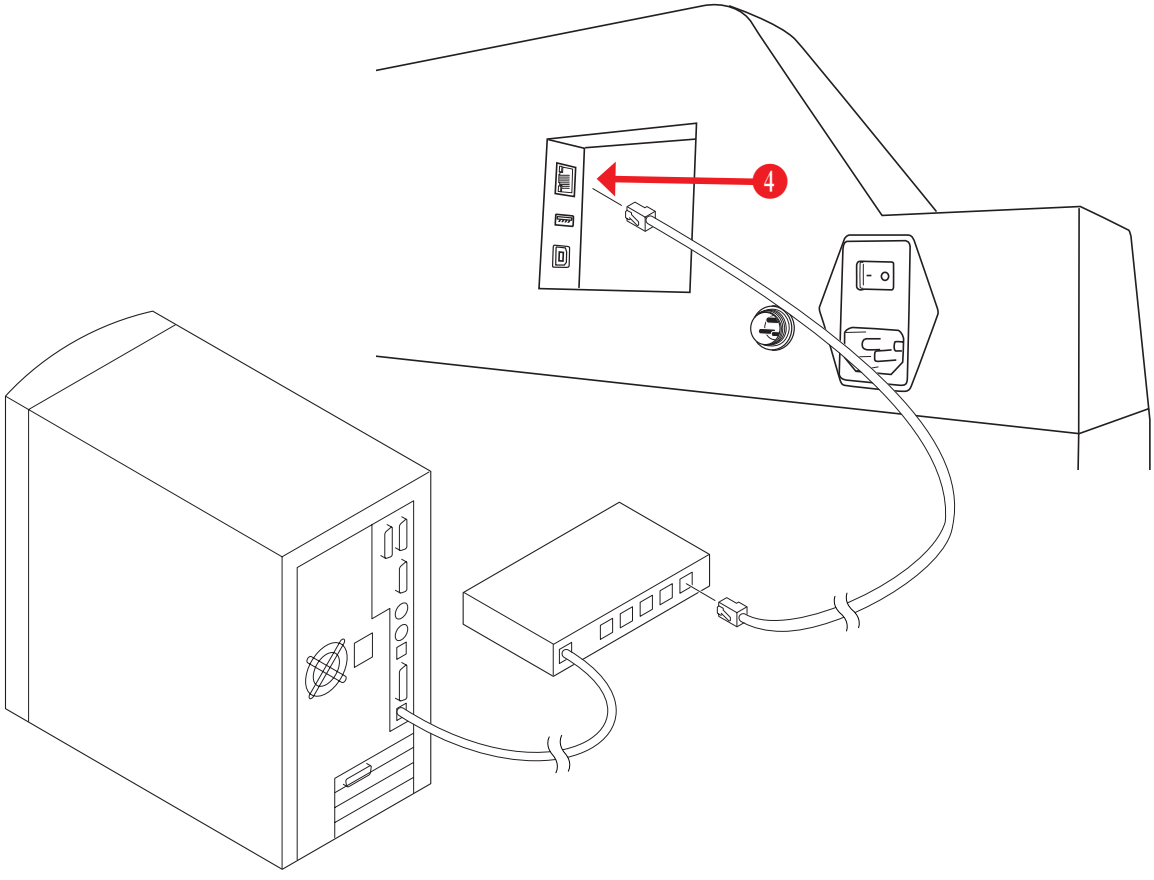
If the connection to your cutter is successful then under the Output Device option (4) you will see the term USB Printing Support.

(After a short delay, the identifier 'FB775' (or FB1175 depending on your model) will appear after the description 'USB Printing Support'. However you don't need to wait for this and this may take a few minutes to appear).

NOTE: The FB775/1175 must be READY and the LCD panel should be showing ON-LINE for the ColorCut Pro software to communicate to it and establish what type of cutter it is. The device may be seen as USB Printing Support and will not show the device name if the cutter is off-line check the cutter is On-Line before sending any jobs.



Please note, when connecting using WIRED LAN, you are required to set the IP address of the cutter to match the connection the ColorCut Pro application.

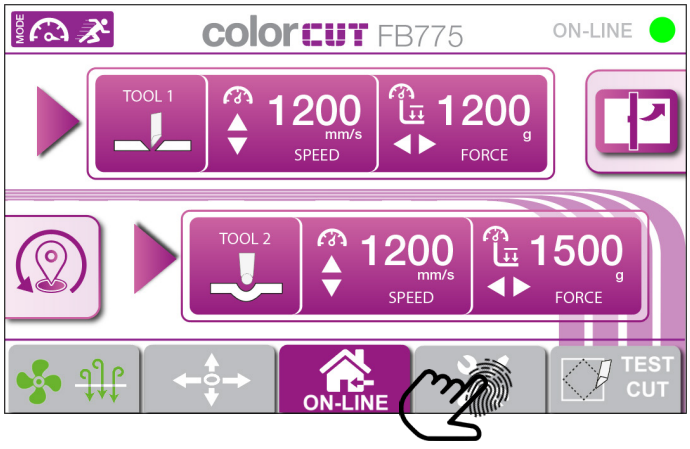


3.3.7 Checking the Wired Ethernet IP Address on your cutter.

The ColorCut FB775/1175 uses a DHCP setting from your router/network to set it's own IP address.
It is necessary to check the cutters IP address so that the ColorCut Pro software can be set to communicate directly with your cutter. The IP address of the cutter can be found, on the LCD panel of the cutting within the Advanced settings menu as detailed below.

1. Connect the Ethernet cable to the cutter and your network, power on the cutter (Press [**ENTER**] to place the cutter '**ON-LINE**' and wait 45 secs for the cutter to aquire an IP address.

2. Press the [SETTINGS] Tab on the cutters LCD panel control screen, to display the settings menu.

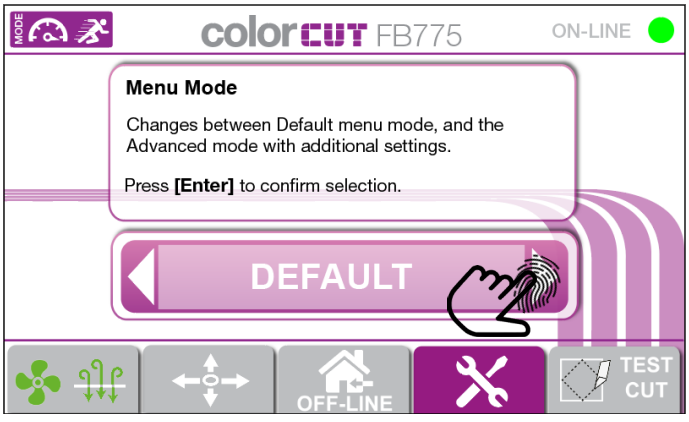


3. Press the UP arrow to move through the options untill you find [**MENU MODE]**

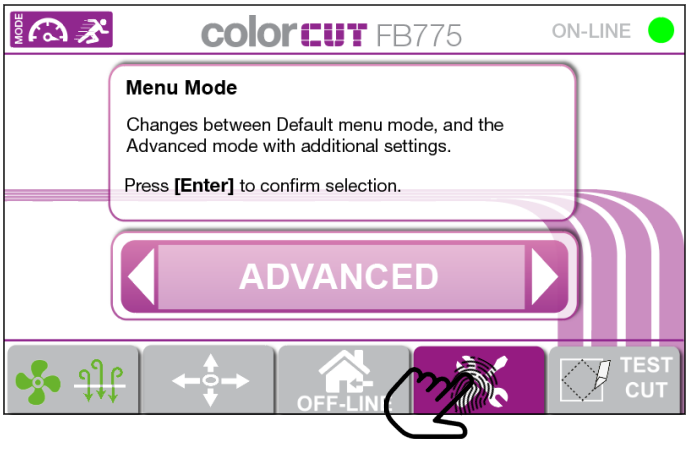
4. Press the **[MENU MODE]** option to change the menu mode.

(The network configuration is found in the advanced menu)

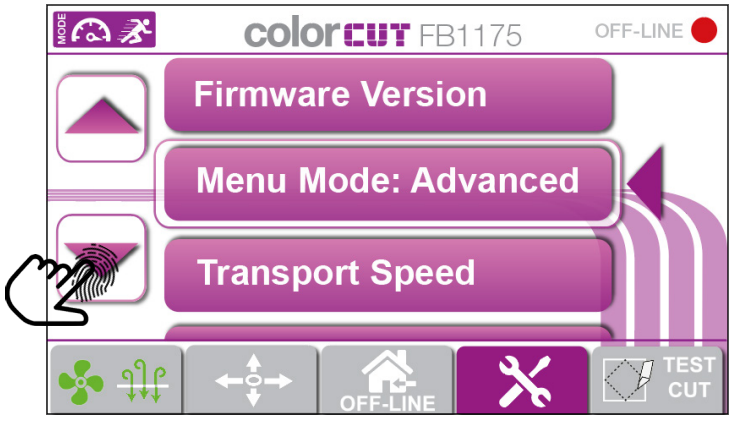
5. Using the arrow keys ont he keypad, or pressing RIGHT next to the current **[DEFAULT]** setting, change the mode to **[ADVANCED]**.



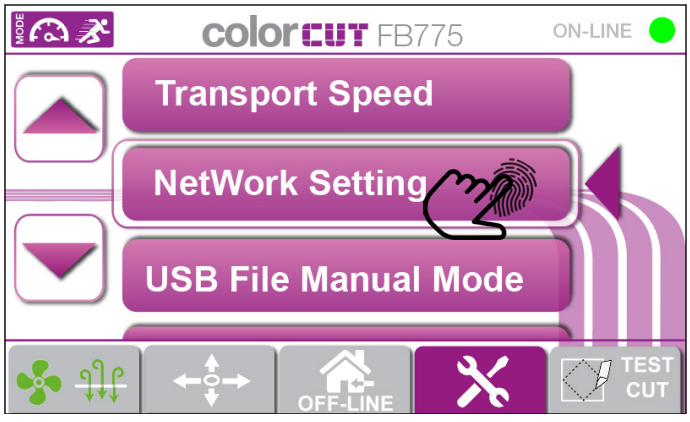
6. Press the [**Settings**] Tab key to return to the menus.



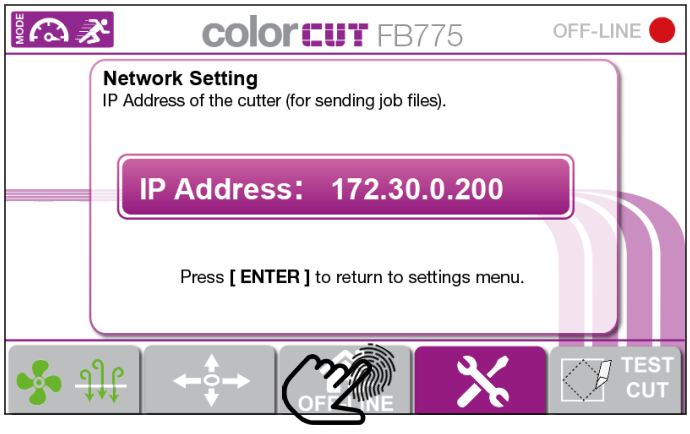
7. Now you will have an extended list of options. Press the **[DOWN ARROW]** and navigate to the menu option Network Configuration.



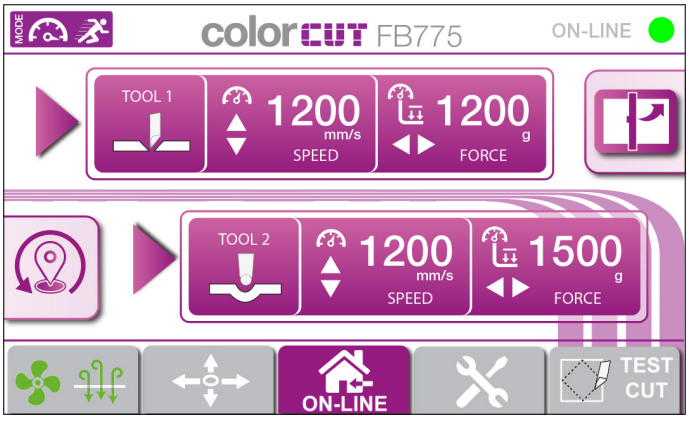
8. Press the **[NETWORK SETTING]**. option.



9. The current IP address for the cutter will be displayed. Make a note of the IP Address.



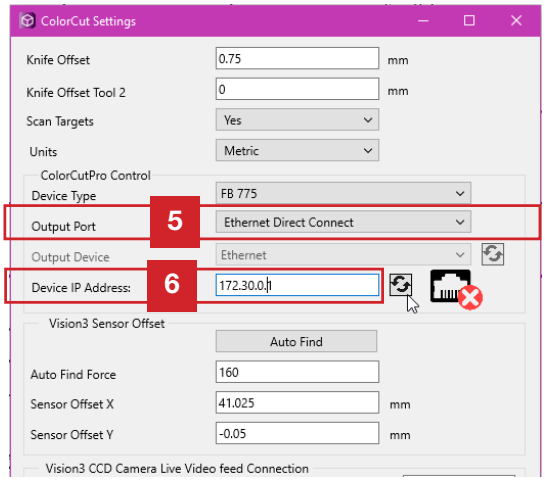
10. Now press the [ON-LINE] button to return to the HOME screen.



Set the output Port ⑤ to show: *"Ethernet Direct Connect"*.

The Output Device option below, will change to show "Ethernet" (There are no other options, in Ethernet Direct Connect mode so this is automatically Greyed Out.

Now, review the Device IP. Address: ⑥ , chenge this to match the IP address of your cutter found in the previous 3.37 steps.

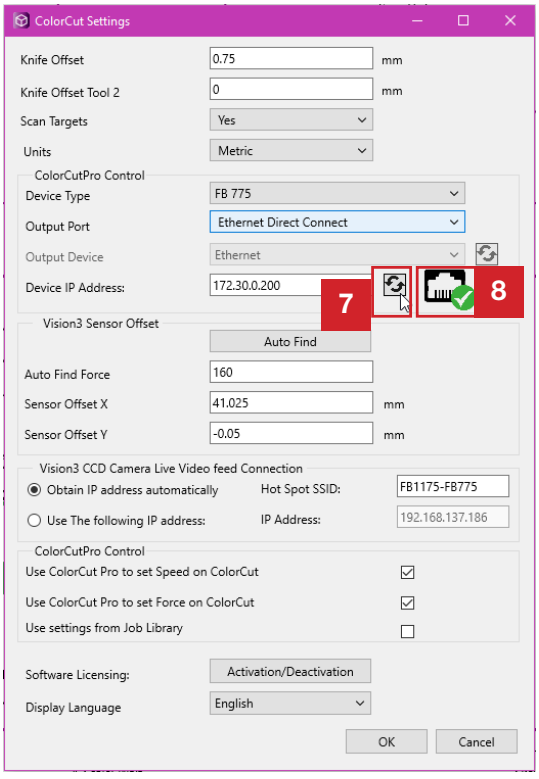


If the connection to your cutter is successful then the Network Connection Icon ⑧ will show a GREEN tick next to it.

If a RED cross shows, it means there is no communication or the IP address can not be found.

If the Green tick does not appear. Click the REFRESH ⑦ NETWORK CONNECTION button, to force the ColorCut software to rescan the IP addresses and connect to the cutter.

When the Green Tick appears after clicking refresh the cutter can be found and you can click [OK] to close the settings dialogue window.



NOTE: If the cutter can not be found, please check :

1. The Cutter is ON-LINE and ready.

2. You are connected on the same network or you can PING the IP address selected.

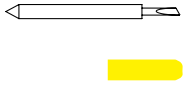
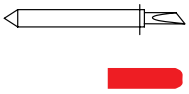
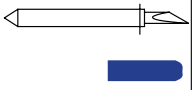
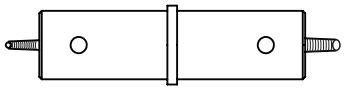
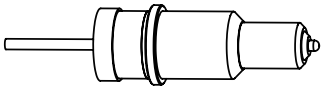
3. Check again on the cutter the IP address is correct.

TOP TIP: *Your router/Netowrk, may reassign different IP Addresses for equipment with DHCP assigned addresses. To prevent having to re-enter the IP address if it should change, we recommend you reserve a STATIC IP address on your router.*

Chapter 4

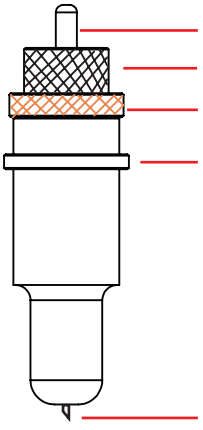
4.1 CUTTER BLADES (An overview of Blade types)

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. 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°	1mm	For Film, very soft material, thin label material.
		45°	1mm	Typically for labels, stickers, and very thin paper/card,
		60°	1mm	For hard media. The sharply angled tip provides a sharper point edge. Suitable for penetrating harder media types.
Circlip Knife		45°	1.4mm	Most packing board up to 500 micron. Circlip provides better pressure and improves blade direction changes on dense media. Suitable for cutting media from 0.25 to 0.5 mm thick
		60°	1.4mm	For cutting high-intensity reflective film, magnetic media or thick media. The sharply angled tip provides a longer cutting edge. Suitable for cutting media from 0.5 to 1.5 mm thick.* For cutting sandblast rubber.
Creasing Blade				Bearing-based creasing ball, double-ended for different width creasing. Suitable for media ≤500g Cardboard, corrugated paper
Pen Holder				Used at setup, to calibrate the offset between the Optical Registration Mark sensor (Red light) and the centre of Tool1 (The blade).

* Maximum cutting depth is defined by the machine type rather than the blade (which is 600 microns)

4.2 THE BLADE HOLDER - an introduction



1 Pin
2 Blade Depth Adjustment
3 Lock
4 Flange
5 Exposed Blade

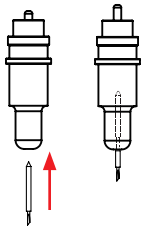
When handling cutter blades, be careful to avoid cutting your fingers or other parts of your body.

4.3 Replacing the blade

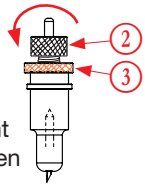
The blade is a consumable item and you'll always get the best quality cut with a newer blade. Please replace with a new blade when the cut quality reduces.

For Standard blades
(Without the circlip)

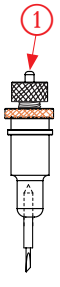
1. Push the blade into the bottom of the blade holder.



2. Adjust the amount of exposed (visible) blade tip to a suitable length by rotating (2) the "Adjustment depth knob" and then tighten the lock (3).

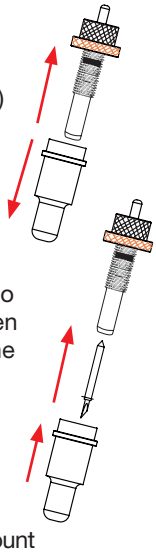


3. Press the push-pin (1) to remove the blade from the blade holder when replacing blade

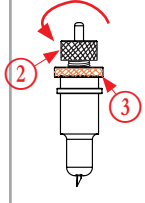


For CirClip Blades

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 (2) the "Adjustment depth knob" and then tighten the lock (3).

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.

4.4 BLADE LENGTH - (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.

TOP TIP If you have enough blade sticking out to clearly see and feel the tip, it's probably too far out. Most new Intec Flatbed 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.

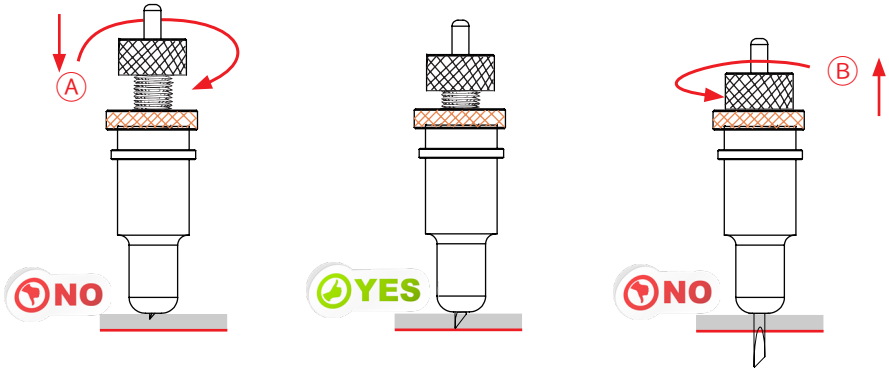
Then take the blade holder and manually drag it across a sheet of card or label that you wish to cut, making a box pattern or square.

Card: Lay a scrap piece of material on a hard work surface with 2 sheets of copier paper underneath, (not on a nice table in case you cut through paper underneath). With the blade holder in your hand, press down and cut a circle in the material. Press down using a moderate amount of force while you cut the circle.
You will not be able to cut through the second sheet of paper when the blade depth is set correctly. If it cuts through the second sheet then the depth is too much and you need to retract the blade.

Labels: Lay a scrap piece of material on a hard work surface (not on a nice table in case you cut through the backing). With the blade holder in your hand, press down and cut a circle in the material. Press down using a moderate amount of force while you cut the circle.
Adjust the blade depth so that only traces of the blade's cut appear on the backing sheet when a cutting test is performed. You will not be able to cut through the material backing when the blade depth is set correctly. If it cuts through the backing then the depth is too much and you need to retract the blade.

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

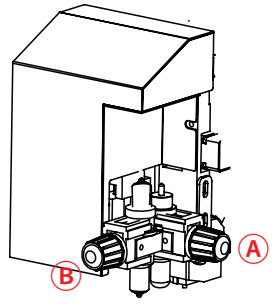
- To extend the cutter blade, turn the knob in the Ⓐ direction.
- To retract the cutter blade, turn the knob in the Ⓑ direction.



4.5 Installing Tools in your ColorCut

The tool carriage is mounted on the beam that travels across the cutting area.

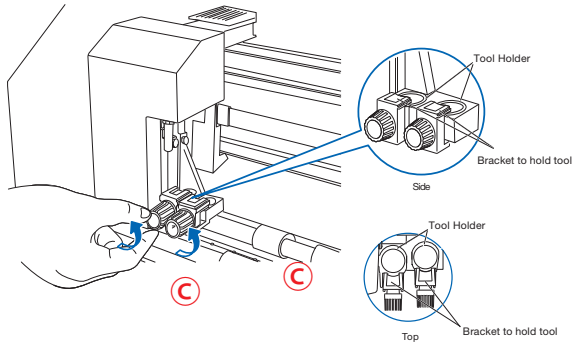
It contains 2 tool holders enabling 2 different tools to be mounted at the same time for different operations'



The Tool Holder Ⓐ closest to the Beam, holds TOOL1, typically the cutting blade.

The tool holder furthest away from the beam Ⓑ holds TOOL2 (typically the Creasing Tool).

1. To install a tool into your Intec ColorCut Flatbed, loosen the tool holder's thumb screw Ⓒ sufficiently to enable a blade holder / creasing tool or calibration pen to be inserted up to its flange.



2. Push the tool, i.e. the Blade Holder, Creasing Tool or Calibration Pen all the way into the tool holder until its flange completely touches the upper part of the holder..

Ⓓ

YES NO

3. Make sure that the tool bracket is engaged on top of the tool's flange Ⓓ and then tighten the screw.

3.5. Calibration of the FB550 Cutter

The Intec ColorCut Flatbed engine needs to be calibrated before first use to ensure accurate cutting. There are 2 different calibrations that should be performed.

First **(Section 3.5.1)**, is to calibrate Tool2 (The Creasing Tool) to Tool1 (The Cutting Tool). This calibration is performed using the front control panel of the cutter and aligns the cutting and creasing tools together**.**

If the Creasing Tool is NOT calibrated to the Cutting Tool, then your elements may cut correctly BUT the crease will be performed in the wrong position.

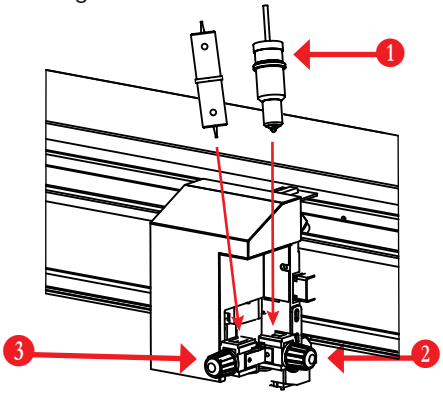
The second calibration **(Section 3.5.2)**, aligns Tool1 (The Cutting Tool) to the position of the Optical Sensor that reads the Page 'SMARTMarks'. This calibration is performed using the ColorCut Pro software and is knows as the Sensor Offset.

If the SENSOR OFFSET is not calibrated then your cut position may be offset from the position on the sheet that you actually wish to cut.

Calibrations are only required upon first use and normally do not need to be carried out subsequently.

3.5.1 Calibration of the Creasing Tool to the Cutting Tool

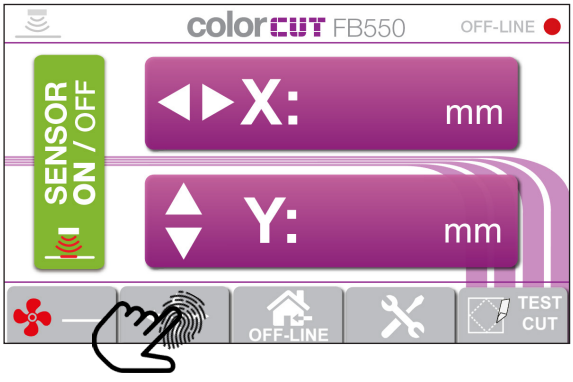
The Intec ColorCut Flatbed engine is fitted with two tools. Before using your cutter for the first time, you must align the two tools together so that cut lines and creases are in alignment with each other. To calibrate/align Tool2 with Tool1, the cutter will draw a 45^{o} rotated square using the Creasing tool and then use the PEN Tool to draw a square around it. The rotated square SHOULD fit perfectly inside the normal square. Please follow the steps below to calibrate the Cutting Tool to the Creasing Tool.



1. Place the Calibration Pen Tool 1 in to Tool Holder 1 2. (Normally the position for the Blade Holder). Then place the Creasing Tool into Tool Holder 2 3.

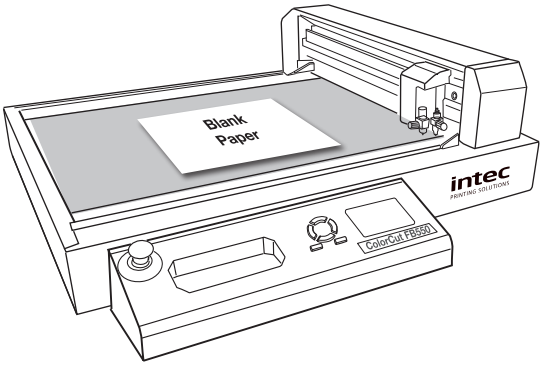
2. Using the LCD control panel on the cutter, press the **MOVE/** Tab icon along the bottom of the display.

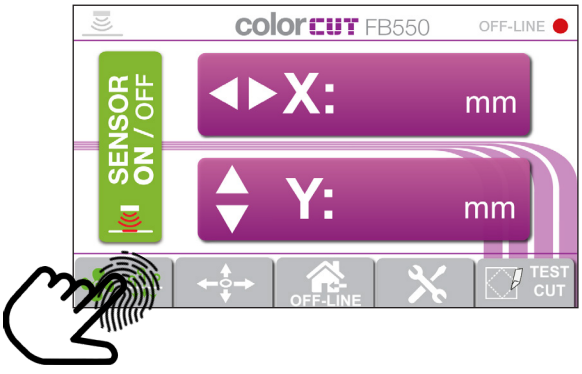
Using the **Left / Right keys** move the carriage so that you can place a sheet of paper on the cutting bed.



3.5.1. Calibration of the Creasing Tool to the Cutting Tool

3. Place a Blank sheet of A4 / US Letter paper in the middle of the cutting table.

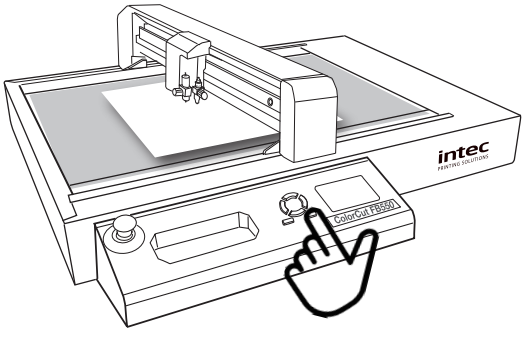


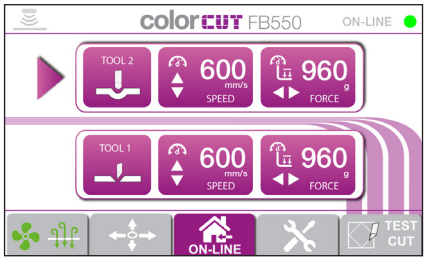


4. Turn on the vacuum hold, by pressing the Vacuum Tab [ ] *(Fan)* key on TAB strip at the base of the LCD control panel.

5. Using the **Left / Right** physical keys move the beam over the sheet of paper then using the **Up / Down** keys move the Tool Carriage to the middle of the piece of paper.

With the Tool Carriage in the middle of the sheet of paper, press the [**ENTER**] key twice to set a new ORIGIN point *(When you press ENTER key the second time, TOOL2 will briefly activate to confirm).*





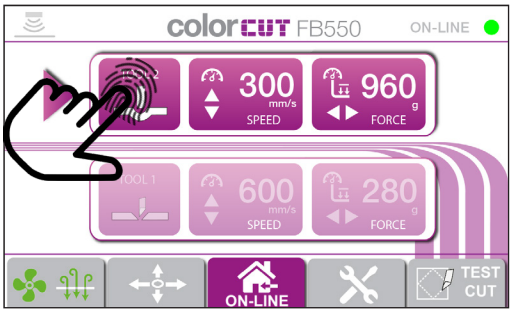
After pressing **[ENTER]** 2x the display will return to the HOME screen showing the Tool's and their Speed and Force settings.

3.5.1 Calibration of the Creasing Tool to the Cutting Tool (cont)

6. Set the pressure for the Creasing Tool so that it is easy to see the crease.

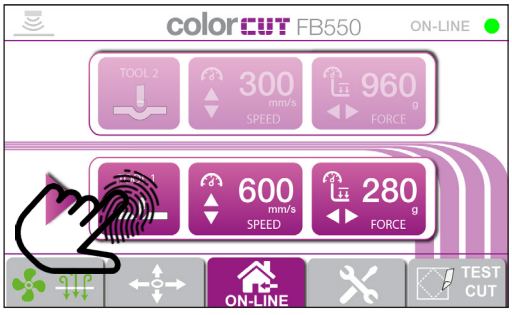
(In step 5 you pressed [**Enter**] twice so the display should now show HOME SCREEN- If the display is showing MOVE X: xx , Y:xx, then press the [***ENTER***] x2 key to bring the cutter back online.)

Press the 'touchscreen' panel on TOOL2.



Then use the UP / DOWN keys to set the speed (to 300mm/s)) and use the Left / Right keys to set the Force. (to 960 g)

The press the [**ENTER**] key to accept the settings.



7. Set the appropriate pressure for the Calibration Pen Tool *(not too much pressure or you may break the pen).*

Press the 'touchscreen' panel on TOOL1.

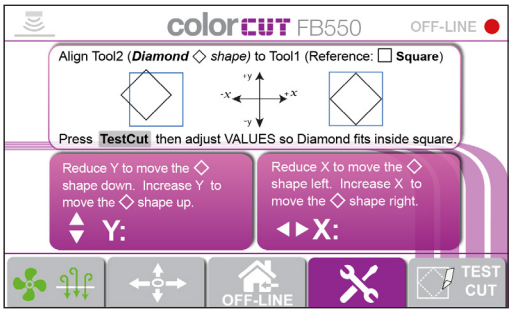
Use the UP / DOWN keys to set the speed. (to 600mm/s))

Use the Left / Right keys to set the Force. (to 280 g)

The press the [**ENTER**] key to accept.

7. Now press [**MENU**] Tab button on the bottom of the LCD display to open the menu/setting screen.

8. Ensure the "**Align Tool2 to Tool1**" is selected (has the arrow next to it, and click the **[ENTER]** key to select.

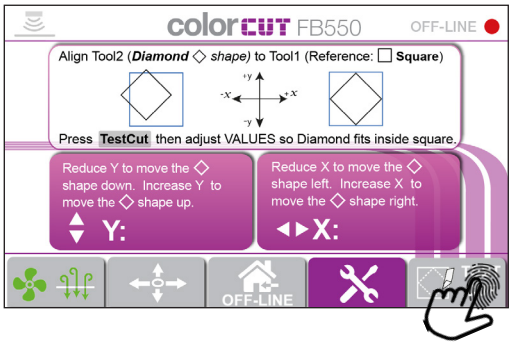


9. The "**Align Tool2 to Tool1"** screen will appear to guide you through the calibration.

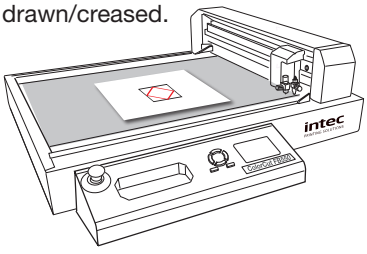
3.5.1 Calibration of the Creasing Tool to the Cutting Tool (cont)

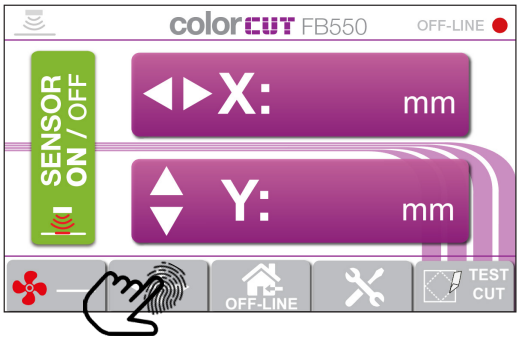
10. Click the [TEST CUT] **[TEST CUT]** tab button on the tab strip across the bottom of the LCD screen.

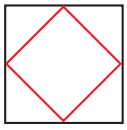
Tool2 (The Creasing Tool) will crease a box at 45^{O} rotation ◇ (a Diamond shape). Tool1 (The Calibration Pen) will then draw a BOX around the Diamond shape. .



12. When it has finished drawing the box and creasing the second box, press the **MOVE/** TAB to display the MOVE X: Y; SCREEN and use the Left/RIGHT arrow keys to move the beam and tool carriage so you can review the shapes drawn/creased.



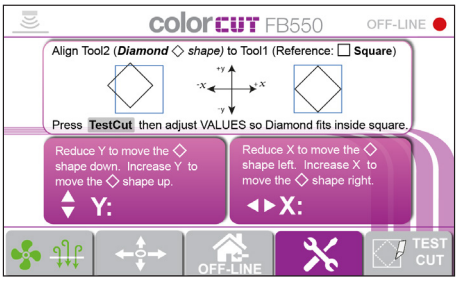




13. If both tools are aligned the creased box will fit perfectly inside the DRAWN box. If they do, Tool2 is aligned to Tool1 please press the **HOME** tab key and continue to section 3.5.2 (Calibrating the Sensor Offset)

If they are not aligned perfectly, continue as detailed below to adjust the alignment.

14. Press the [MENU] **[MENU]** Tab button on the bottom of the LCD display, ensure "**Align Tool2 to Tool1**" is selected (has the arrow next to it, and click the **[ENTER]** key to return to the **Align Tool2 to Tool1** calibration settings.



15. Using the arrow keys, (Left / Right) to adjust the X value to move the position Left or Right across the Table. Use the Up/Down keys to adjust the value of the Y parameter to move the position towards the operator or away from the operator. Press the [Enter] key to accept your values. Repeat from Step.4 until you achieve a perfect fit between the two tools.

(Remember to select a new origin each time to avoid making a test in the same position. Do this by using the MOVE menu to move the tool carriage over your paper and pressing [Enter] twice to select the new origin)

3.5.2 Calibration of the Sensor Offset to the Cutting Blade

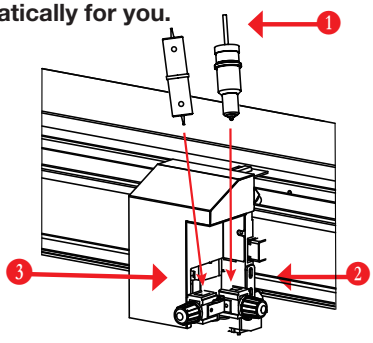
The Intec ColorCut FB550 Flatbed engine includes a Vision2 - ARMS system (AutoMatic Registration Mark Sensor). The Vision2 ARMS system uses an optical sensor to automatically detect Registration marks, enabling accurate positioning and so ColorCut Pro can adapt cutting lines to compensate for any scale or skew errors.

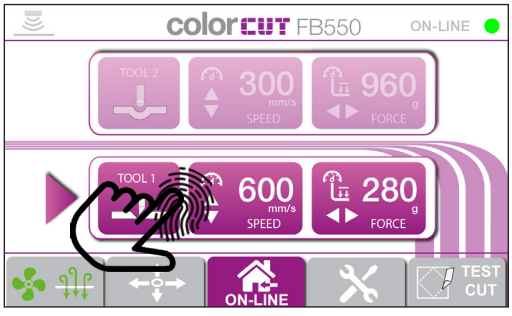
The Vision2 ARMS sensor is mounted in a different position to the centre of your cutting blade. To cut accurately you must calibrate the distance the Sensor is offset from the cutting blade (Calibrating the Sensor offset) using the ColorCut Pro software application.

NOTE: The sensor offset value is stored within the software application, so you change computers or re-install your computer, you will need to perform the calibration again.

To make calibration easy, ColorCut Pro can automatically perform the calibration for you using the PEN CALIBRATION TOOL. The pen tool is used to draw lines that are used to define the centre point of the cutter blade, then the Vision2 ARMS sensor reads these back and the software calculates the offset automatically for you.

1. Place the Calibration Pen Tool 1. Into Tool Holder 1 2. (Normally the position for the Blade Holder). Then place the creasing tool into Tool Holder 2 3.





2. Set the appropriate pressure for the Calibration Pen Tool.

Not too much pressure or you may break the pen.

Press the 'touch-screen' panel on **TOOL1**.

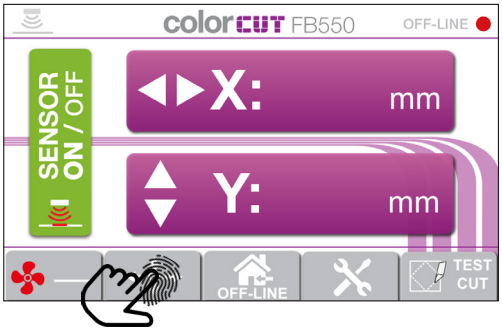
Use the UP / DOWN keys to set the speed. (to 600mm/s))

Use the Left / Right keys to set the Force. (to **280** g)

The press the [**ENTER**] key to accept.

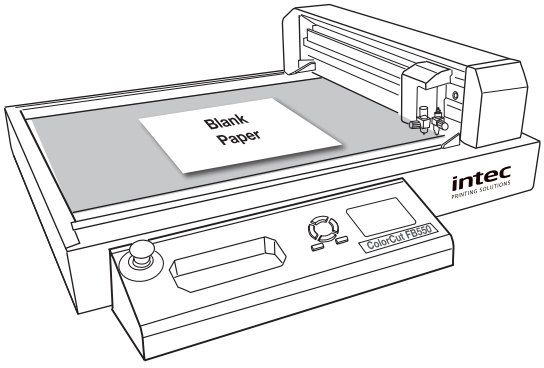
3. Press the **MOVE/** Tab icon along the bottom of the display.

Using the **Left / Right keys** move the carriage so that you can place a sheet of paper on the cutting bed.



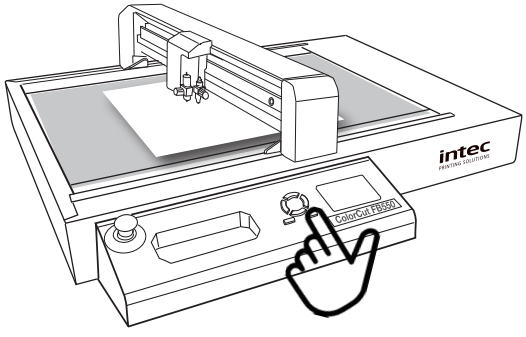
3.5.2 Calibration of the Sensor Offset to the Cutting Blade

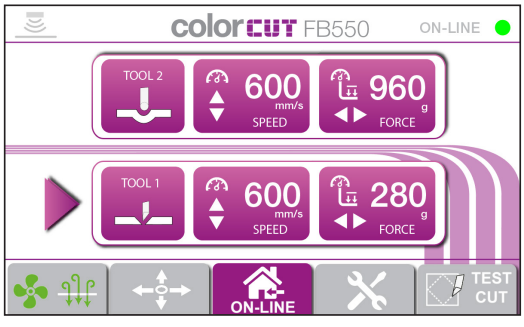
4. Place a Blank sheet of A4 / US Letter paper in the middle of the cutting table.



5. Turn on the vacuum hold, by pressing the Vacuum Tab [ ] *(Fan)* key on TAB strip at the base of the LCD control panel.

6. Using the **Left / Right** physical keys move the beam over the sheet of paper, then using the **Up / Down** keys move the Tool Carriage to the middle of the piece of paper.





7. With the Tool Carriage in the middle of the sheet of paper, press the [**ENTER**] key twice to set a new ORIGIN point *(When you press ENTER key the second time, TOOL2 will briefly activate to confirm).*

After pressing **[ENTER]** 2x the display will return to the HOME screen showing the Tools and their Speed and Force settings.

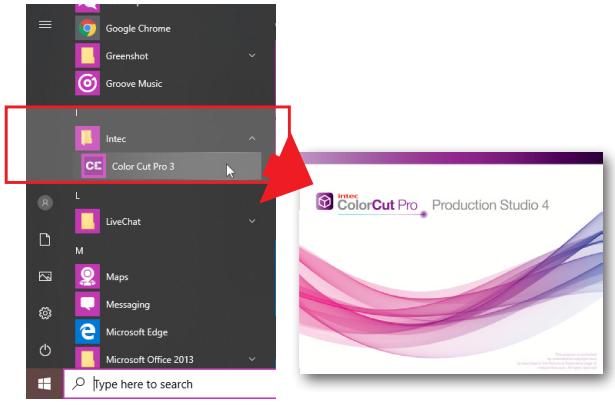
3.5.2 Calibration of the Sensor Offset to the Cutting Blade

The Sensor Offset Calibration value, is stored in your ColorCut Pro application and so the calibration is perfomed by ColorCut Pro. To continue the calibration process you will need to launch the ColorCut Pro application and open the [SETTINGS] dialogue box as shown below.

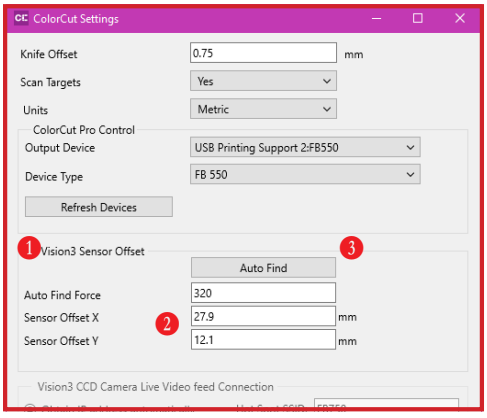
8. Open ColorCut Pro from Windows menu

Open the Windows [START] menu and select ColorCut Pro from the Programs/Intec folder.

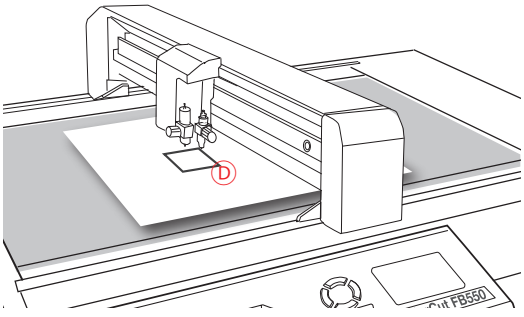
The ColorCut Pro splash screen will briefly appear, then the main ColorCut Pro application will be displayed.



9. The "Vision Sensor Offset" 1 setting provides the ability to calibrate the sensor offset automatically by using the Auto-Find feature 3 AND shows the current setting 2 (which can be manually adjusted if you prefer).



10. Click the [**AutoFind**] button to start the automatic sensor offset calibration. The ColorCut FB550 will use the Pen Calibration Tool to repeatedly draw a box with a thick frame Ⓓ. After drawing the box, it will then scan the frame and automatically enter the values into your Sensor Offset X and Y settings. It will display a message when the process is complete.

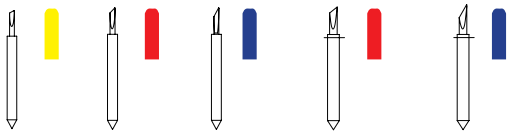


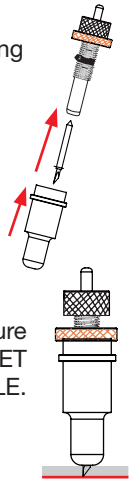
You can now close this window, the calibration for ColorCut Pro is now complete.

3.6 Performing a test cut

The installation of your ColorCut FB550 is almost complete. The final step before starting to learn how to Design, Create and Cut your files using the ColorCut Pro software guide (manual 2) is to fit the blade tool in Tool position1 in place of the Calibration Pen tool and check your Blade depth for the medai your will be cutting by performing a test cut.

1. **Refer to section 2.4 - Blade Adjustment.** Install the appropriate cutting blade in the Blade holder.





2. **Still referring to section 2.4 - Blade Adjustment.** Set the blade exposure by adjusting the know at the end of the Blade holder. (Remembering, SET THE BLADE DEPTH/EXPOSURE TO THE LEAST AMOUNT POSSIBLE. Less is MUCH better than more).

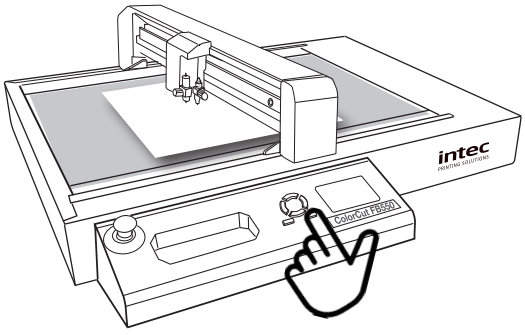
3. **Refer to section 3.4 - Installing the Tools.** Install the Blade holder in to the Tool carriage in Tool position 1.

4. **Place a sheet of the media you plan to cut on the cutting table .** Using the LCD control panel on the cutter, press the **MOVE/** Tab icon along the bottom of the display.

Using the **Left / Right keys** move the carriage so that you can place a sheet of paper on the cutting bed.

5. Turn on the vacuum hold, by pressing the Vacuum Tab **[** *(Fan)* **]** key on TAB strip at the base of the LCD control panel.

6. Using the **Left / Right** physical keys move the beam over the sheet of paper, then using the **Up / Down** keys, move the Tool Carriage to the middle of the piece of paper.



3.6 Performing a test cut (Cont.)

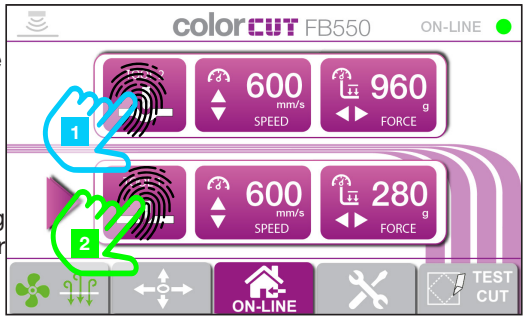
7. With the Tool Carriage in the middle of the sheet of paper, press the [**ENTER**] key twice to set a new ORIGIN point *(When you press ENTER key the second time, TOOL2 will briefly activate to confirm).*

After pressing **[ENTER]** 2x the display will return to the HOME screen showing the Tool's and their Speed and Force settings.

8. Set the pressure for the Creasing Tool 1 so that it is easy to see the crease. Press the 'touchscreen' panel on TOOL2.

Then use the UP / DOWN keys to set the speed. (to 600mm/s)) and use the Left / Right keys to set the Force. (to 960 g)

The press the [**ENTER**] key to accept the settings.



9. Set the pressure for the Cutting Tool 2 so that it is appropriate for your media (to cut through).

Press the 'touchscreen' panel on TOOL1.

Then use the UP / DOWN keys to set the speed. (to 600mm/s)) and use the Left / Right keys to set the Force. (Start at approx. 360 g)

When cutting through your media the aim is to have the smallest amount of blade out as possible to achieve the cut and use a reasonable force .

For 350micron card (15pt) we would suggest that the pressure should be set between 300 - 450g. When performing the TEST CUT, if you can cut through with a pressure setting UNDER this value, then you have too much blade exposed. Please reduce your exposure blade.

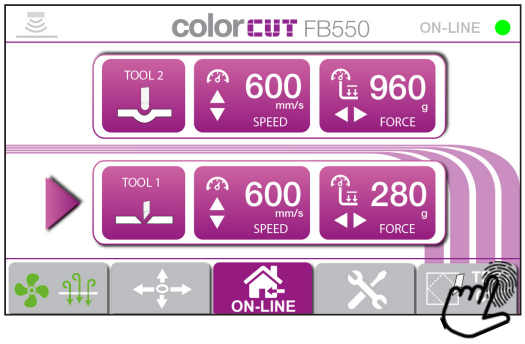
WARNING: Too much blade exposed, has the following implications:

1. Reduced control while cutting,
2. Tight turns will have an artefact known as 'Ears', particularly on inverted corner cuts, (the blade will 'turn over' lift /drag the card on a sharp corner where it has to double back or change direction abruptly. as the blade has too much width as it rotates so can not do so cleanly.
3. You risk reducing the life of your cutting blade - by forcing the tip into the cutting mat unnecessarily.
4. You will place more wear and tear on your equipment, as the motors require added force, to cut your material AND your cutting mat.
5. You will shorten the life of your cutting mat.

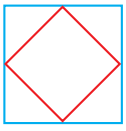
10. The press the [**ENTER**] key to accept the settings.

3.6 Performing a test cut (Cont.)

11. With the Vacuum still ON ([ ]) press the [TEST CUT] tab to perform a Test Cut so you can check your settings.



12. The cutter, will CREASE a DIAMOND shape ◇, then Cut around this in a square shape □ using the blade (Same function as the 'ALIGN TOOL2 to TOOL1' - see section 3.5.2).



This enables you to double check the two tools are aligned correctly, but more importantly, the square □ surround, should cut out perfectly.

If the square □ is not cut out, then increase the blade pressure. If the square □ cuts out easily, then reduce the bade pressure, to check you have not got too much blade exposed.

On labels a low pressure is OK, because you are not cutting the backing material.

However in Card, cut through applications, if the blade cuts through at under 300g pressure, then it is likely you have too much blade exposed. Reduce your Blade. (See section 2.4).

If you don't cut through, and have increased your blade pressure to > 600g pressure, then it is likely you do not have enough blade exposed. Increase the amount of blade exposed (See section 2.4).*

* Note: Hard materials, like Polyester sheets, Magnetic media or thicker card, may require more force.

Once you have set the blade depth, and pressure - checking it using the **TEST CUT,** function, you are ready to use your cutter. Please refer to the ColorCut Pro - Production Studio software manual for creating, designing and sending your files to your cutter.

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