

# ***Understanding EKPrint Studio***

Hosted by AnaJet Tech Support Rep,  
**Ray Larason**

**The presentation will begin shortly...**

## Understanding EKPrint Studio

***A few notes***

- Before we begin please make sure you have your speakers on and turned up, if you do not have speakers please plug in head phones.
- Please keep all questions until the Q&A section later in the presentation.
- Please do not use the chat input area for your questions. Use the Q&A box located in the bottom right corner.
- Please keep all questions related to the topics being covered.
- At the end of the webinar you will receive a survey, please take a moment to fill it out and let us know how we did and what other topics you would like to see.



## Understanding EKPrint Studio

# ***Introduction***

- AnaJet is the only direct-to-garment printer manufacturer with a dedicated department to technical support and training.
- In this webinar we will show you every option in EKPrint Studio and explain what each function does. We will also show when to use certain options.
- We will show a few different graphics and explain what ink settings to use for the best results.
- Please keep in mind that any questions regarding EKPrint Studio can be answered by calling or emailing AnaJet Tech Support.
- This webinar is very lengthy as it is designed so that you can print the PowerPoint and all of the content will be there. Please do not feel the need to have to read every slide, as I will verbally explain everything.

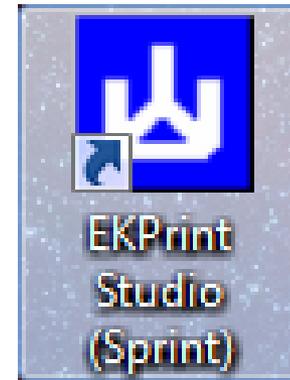
## Understanding EKPrint Studio

# ***EKPrint Studio Introduction***

**What is EKPrint Studio?**

EKPrint Studio is our RIP program that you use to send your graphics to the printer. In this program you can:

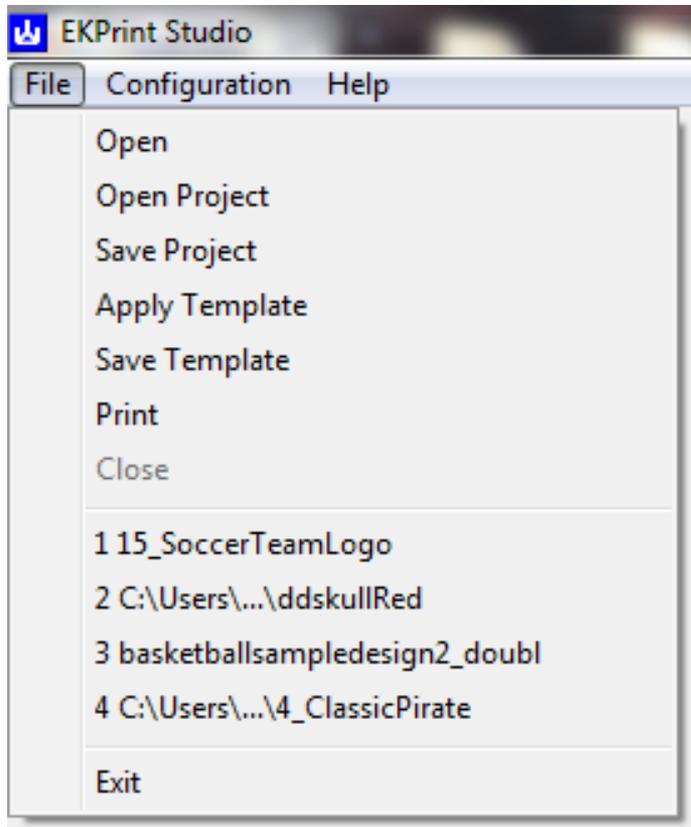
- Tell the printer how much ink to use.
- Adjust the quality and saturation of the image being printed.
- Enable white ink and control how much white ink will be used.
- Adjust the Lightness Brightness and Contrast of the image
- Adjust the size and position of the image and more



There are many options and functions within EKPrint Studio and the purpose of this webinar is to define each one so that you know when and when not to use certain settings.

## Understanding EKPrint Studio

# File Drop Down Menu

**Open:**

This allows you to navigate to your file and open it into EKPrint Studio. Make sure that your file is saved as a TIFF, PNG, JPG, GIF, BMP, XIF and is in RGB Mode.

**Open/Save Project:**

Once you have your image in EKPrint Studio and you have all the ink setting how you like it, you can go File, Save Project. What this does is it saves a link back to your image and also saves all the ink settings you used to print the image. This is best used when you have reoccurring orders of the same print. If you wanted to open a project, you must first open EKPrint Studio then click File, Open Project. The image and the ink settings will load. If you move the location of the image on your computer then try to open the project, you will get an error and the image will not load, but the ink settings will. The reason the image will not load is because EKPrint Studio saves a path back to the image, not the image itself.

**Apply/Save Template:**

Saving a template will do the same things saving a project will do except it only saves the ink settings. It will not save a link back to your image. This is best used when you find ink settings that will work with many different images. To apply a template, you must first open an image into EKPrint Studio. After that, click File, Apply Template, navigate to the template file and open it. Once the template file is opened, the ink settings will be applied.

**Print:** This will send your print job to the printer.

**Exit:** This closes EKPrint Studio

## Understanding EKPrint Studio

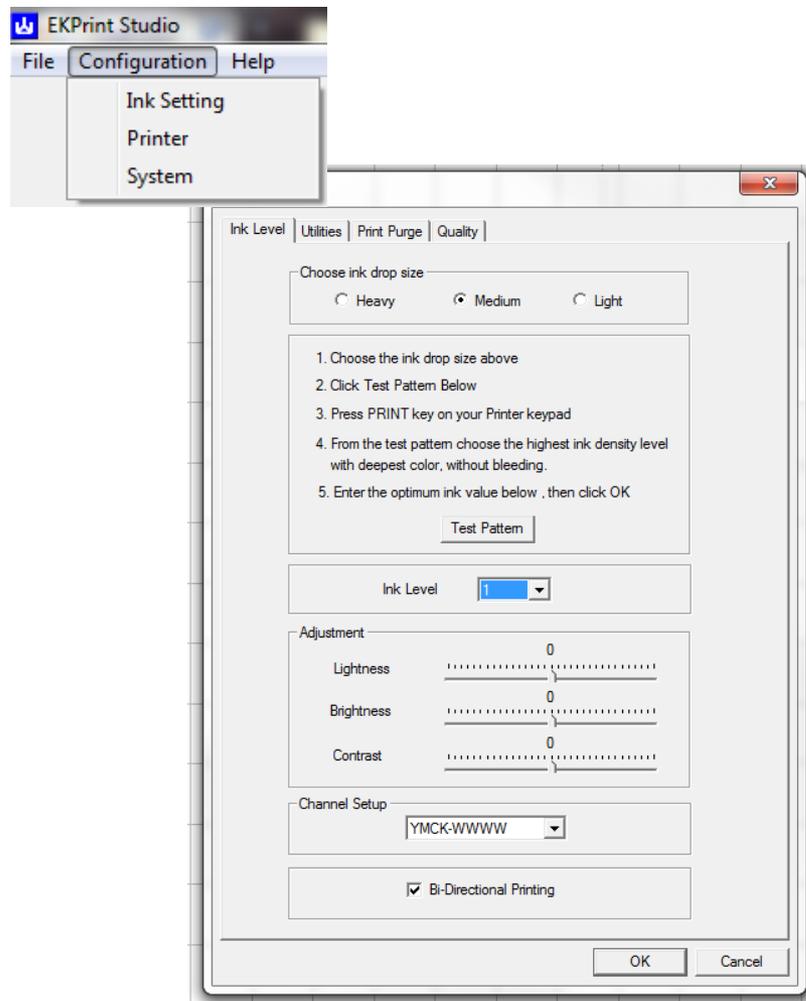
# Configuration Drop Down Menu – Ink Setting – Ink Level Tab

## Ink Settings:

The first thing we see when clicking Ink Settings, is the Ink Level Tab. Within this tab, we have Ink Drop Size options, Test Pattern, Ink Level, Adjustments, Channel Setup and Bi-Directional Printing. The ink drop size and ink level options will be discussed later.

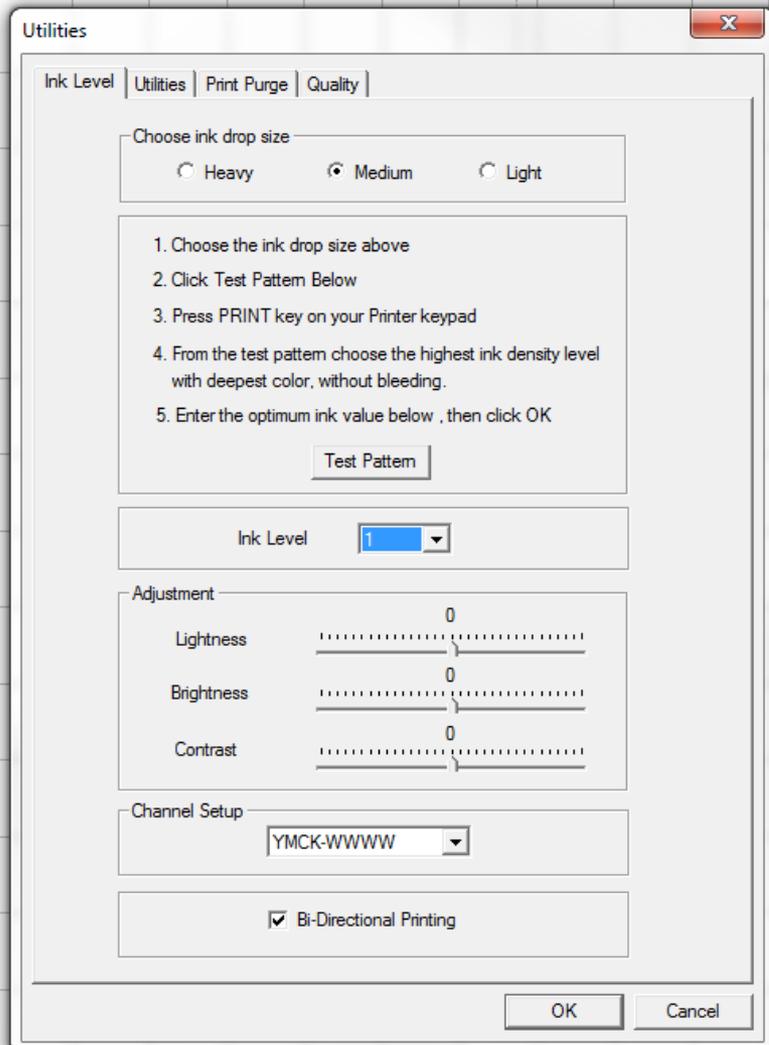
## Test Pattern:

To print a test pattern, you first want to put a piece of paper onto the table and line the paper up in portrait orientation to the right corner closest to you. After doing this, you would select an ink drop size then click the test pattern button. Upon clicking this button, the test pattern will be sent to the printer and you would press print button on the printer's control panel. The printer will print a pattern, as pictured. What this does is tell you how saturated the colors will print with the any given ink level. This is used as a reference to help you find the best ink settings. As a rule of thumb, when printing just colored ink onto a light colored garment, you want to use the Medium Drop Size with the Ink Level at 3 and the Color Mode at Standard.



## Understanding EKPrint Studio

# Ink Level Tab Continued



**Adjustments:** We have 3 adjustment Options here. Lightness, Brightness and Contrast. These adjustments will alter the colors in your design and are sometimes necessary to get certain colors to print.

**Lightness:**

By increasing this value, the lightness of the entire image will become lighter. If you slide this value into the negative, the image will print darker.

**Brightness:**

Increasing the brightness of an image to +32, which means the slider bar is all the way to the right, will make your image look closer to what you see on the monitor. The reason being is that colors tend to transfer to shirts a bit darker. Increasing the brightness on everything you print will improve the look of the print. You generally would never want to decrease the brightness of an image.

**Contrast:** Contrast works well if you are printing an image that has similar colors. What this will do is separate these colors so that you get both colors instead of the similar colors blending in to each other. For example if you had blue right next to dark blue and not printed both blues the same blue. Increasing the contrast will separate these colors and make it so that they print correctly.

### Understanding EKPrint Studio

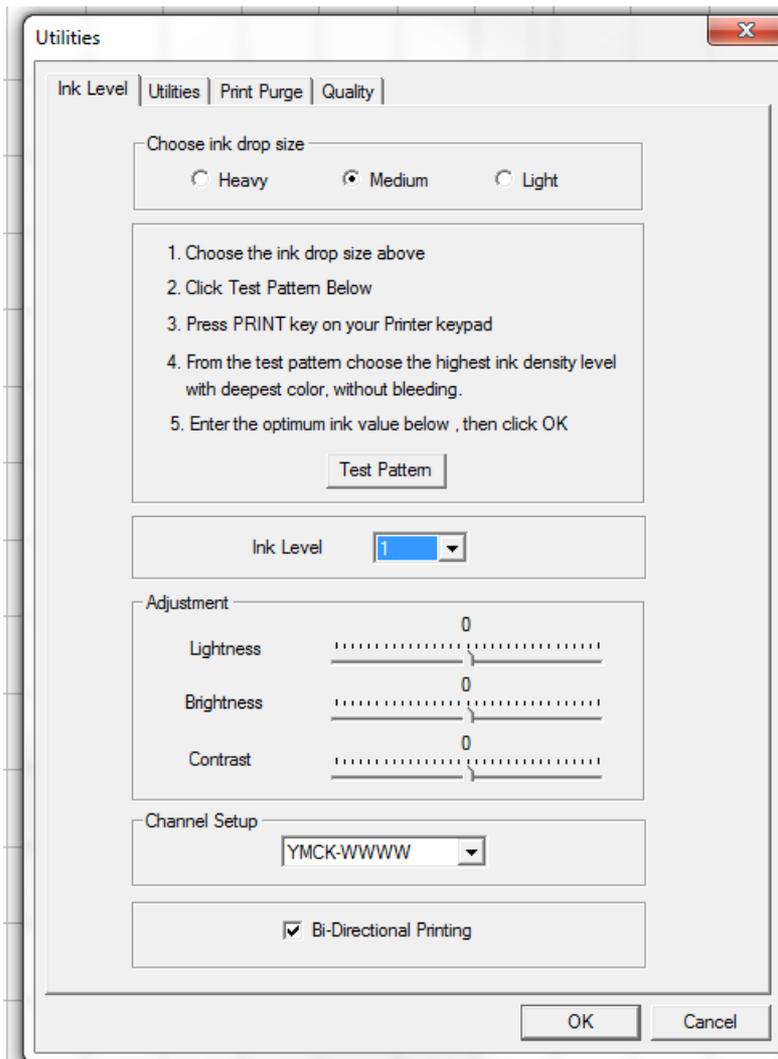
# Ink Level Tab Continued

#### Channel Setup:

In this dropdown menu, you have all the different channel setups you can have with the AnaJet. This is referring to which colors you have plugged into the ink bay of the printer. YMCK-WWWW means you have 4 color cartridges in the front 4 slots and either 4 white cartridges or 4 cleaning cartridges in the back 4 slots. YMCK-YMCK means all 8 slots have color ink cartridges plugged in. XXXX-YMCK means that the front 4 slots are turned off and the printer will only pull ink from the back 4 slots. This is used if you want to have AnaBright Color Cartridges in the front 4 slots and PolyBright Cartridges in the back 4 slots. You would print with the front 4 by selecting YMCK-WWWW and the back 4 by selecting XXXX-YMCK.

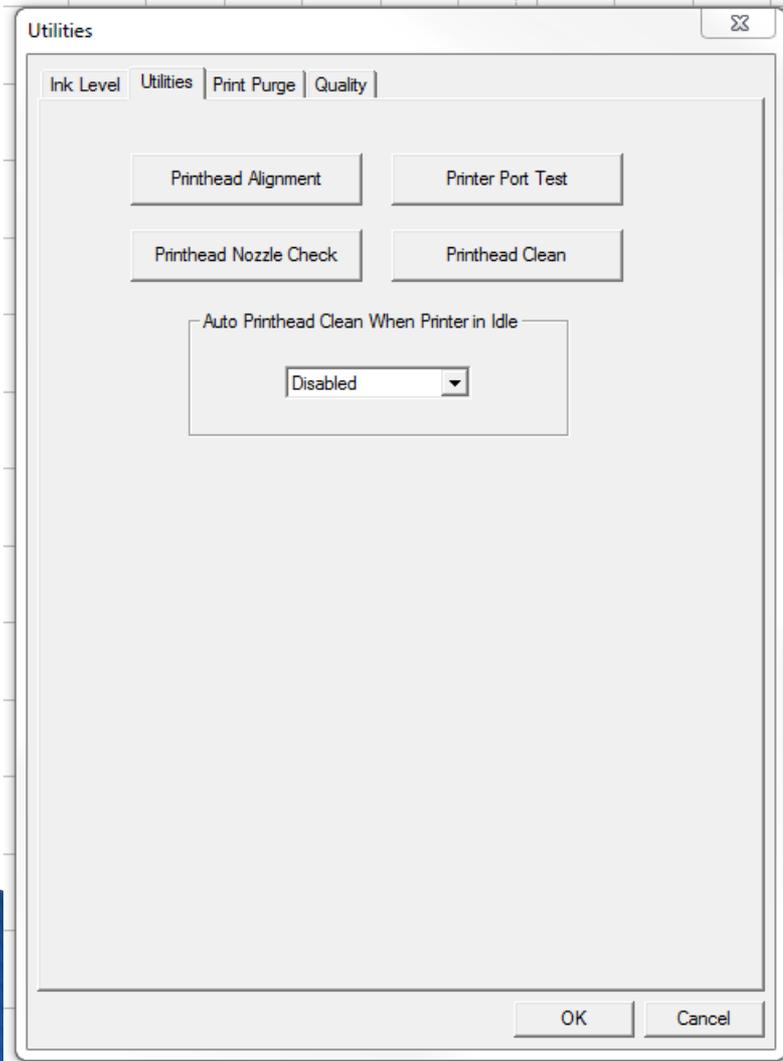
#### Bi-Directional Printing:

When this is checked, this means the print head is firing ink on both left to right and right to left passes. If this is unchecked, the print head will fire ink when it goes from right to left but will not print left to right. This slows down the printer and is used when printing very small images. If the image is less than 4 inches in size, you want to have this unchecked for a better quality print.



### Understanding EKPrint Studio

# Utilities Tab



#### Print Head Alignment:

Every AnaJet gets sent out with the alignment already adjusted correctly. If you are a new AnaJet owner, this will not need to be adjusted. The only time you want to adjust the alignment of the printer is if you are getting ghosting or a double print. If you click on print head alignment, a window will pop up giving instructions to load paper onto the table. After clicking print, another window will pop up giving instructions on what to do. Basically, the printer will print 3 groups of squares, as pictured. What you want to do is select the box that had no lines or the box that had the smallest line in the group. You do this for each section and input the number into the window that popped up then click Realignment. The ultimate goal is to get the printer to where 5 is the best square in all 3 groups.

#### Printer Port Test:

This is used to make sure the printer and computer are communicating properly. If you click this button and the computer and printer are communicating, the power light will blink. If it does not blink, you may have a communication problem. If this is the case, you want to make sure the USB is plugged in, that the driver is Online and that the correct port is selected.

## Understanding EKPrint Studio

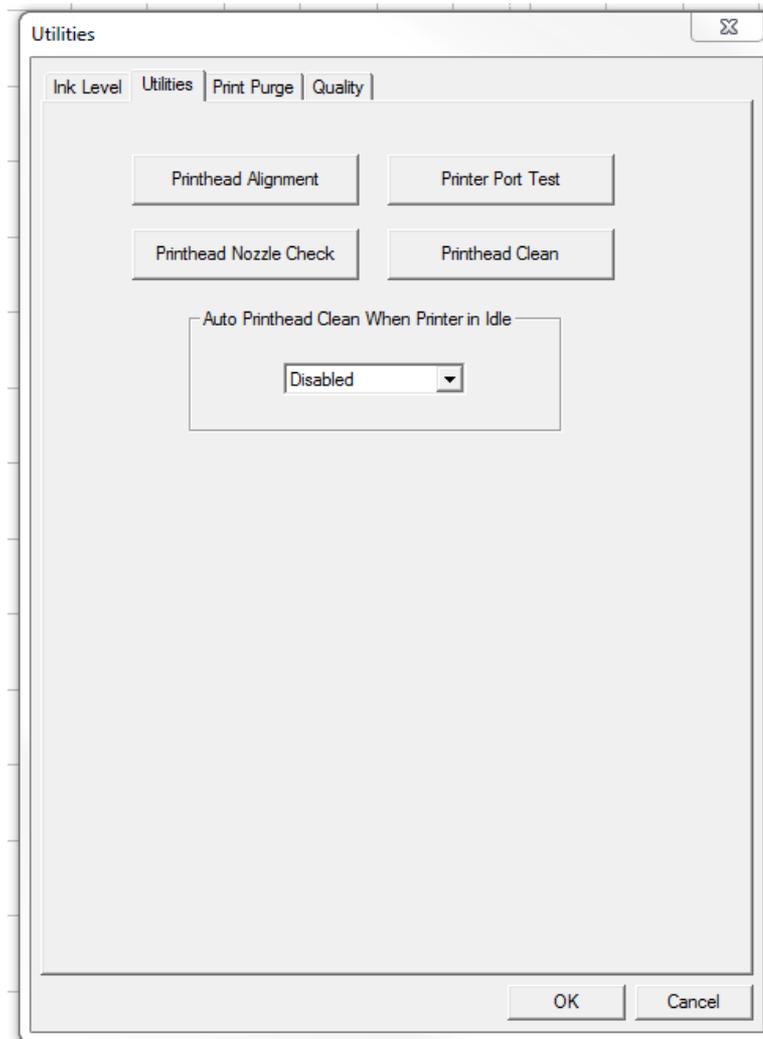
## Utilities Tab Continued

### Print Head Nozzle Check:

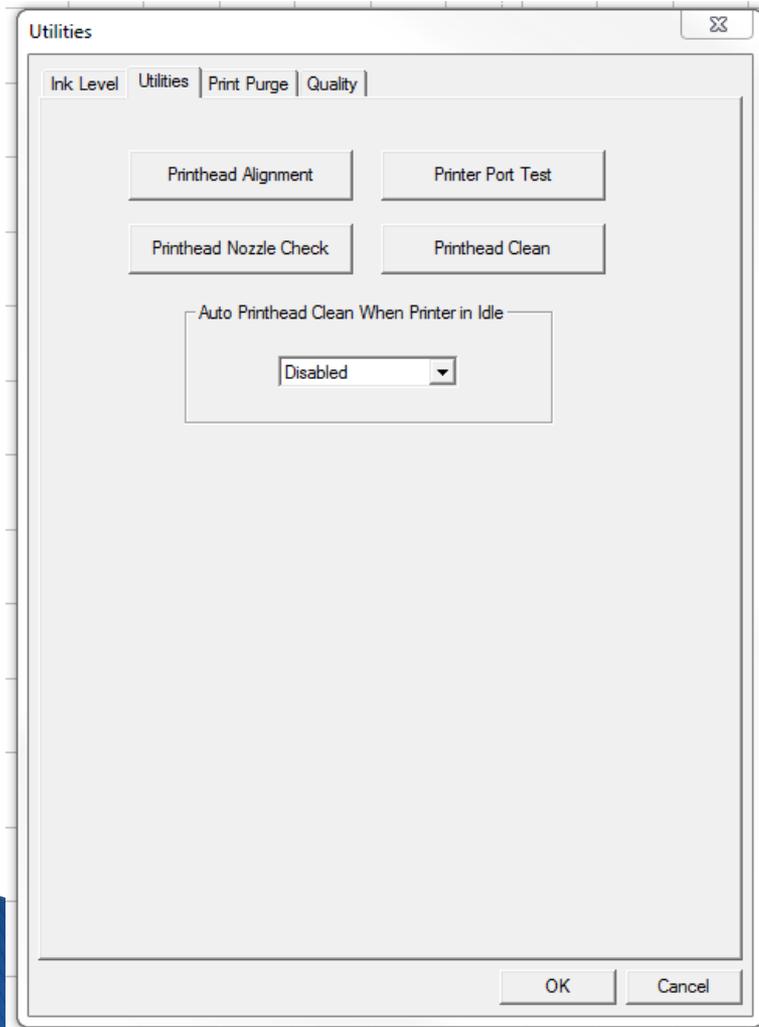
Printing and getting a good nozzle check must be done before every print job. If you get a good nozzle check, you will get good prints. If you get a bad nozzle check, you will get bad prints. The nozzle check fires ink from every one of the 1440 nozzles in the print head. If you are printing with only color ink, you want to print this onto a piece of paper and if you are printing with white ink, you want to print this directly onto the table of the printer. Once the nozzle check is printed, you are look for any breaks and/or gaps in the lines. If there are a lot of breaks or gaps, you want to do print head cleans until you get a good nozzle check. Never do more than 3 print head cleans in a row. If you do 3 print head cleans and the nozzle check still looks bad, wait 15 minutes then do an Ink Charge from the Anajet Sprint Utility.

### Print Head Clean:

This is done if you do a nozzle check and it looks bad. What happens during a print head clean, is the print head moves over the maintenance station, pulls a little ink through, then the maintenance station flips the wiper blade up at which point the print head moves over the wiper blade which squeegees the nozzle plate of the print head. It is very important to do your weekly maintenance to keep the maintenance station, wiper blade and the areas around the nozzle plate clean at all times.



## Understanding EKPrint Studio

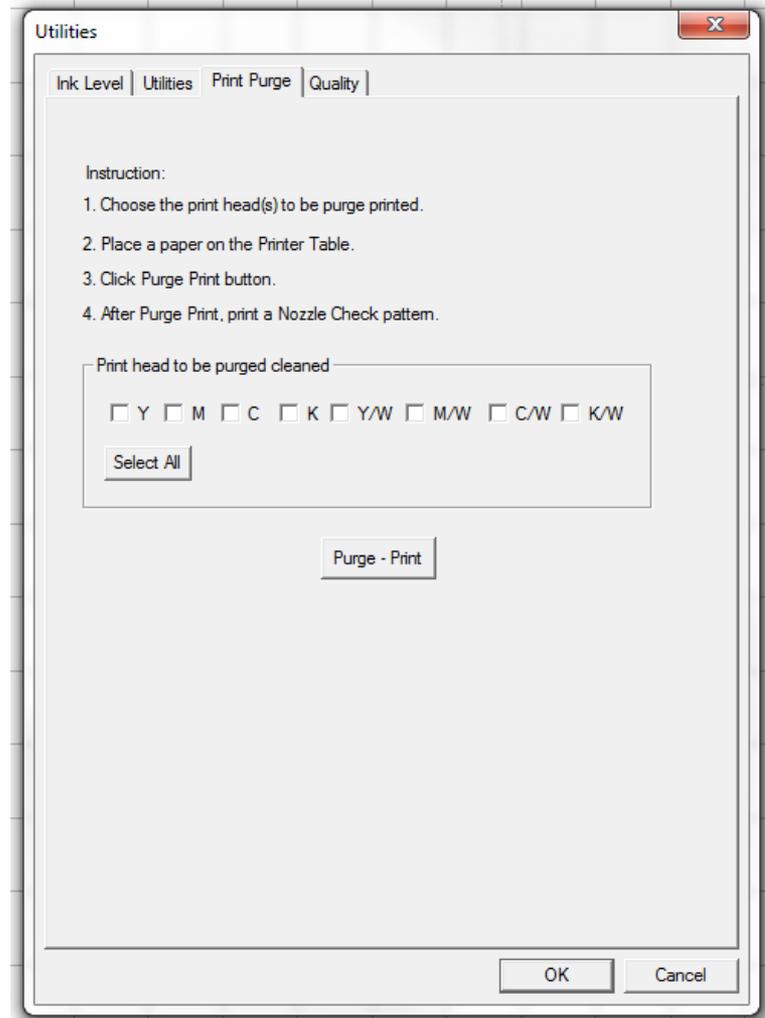
***Utilities Tab Continued*****Auto Print Head Clean When Printer In Idle:**

This MUST be set to Disabled. This is something we set up on the control panel of the printer for either every 12 or 8 hours.

## Understanding EKPrint Studio

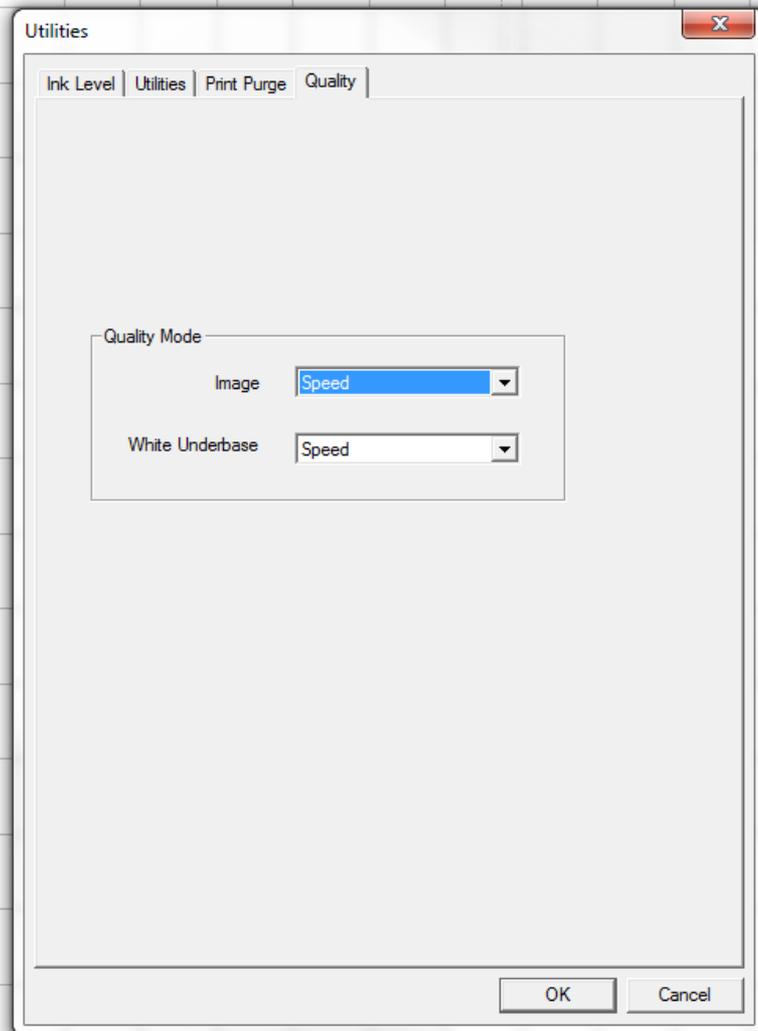
***Print Purge Tab*****Print Purge Tab:**

in this tab you can choose to print from individual channels or you can select "Select All" and print all 8 channels. What happens is the printer will print a bar for each channel that is selected. This primarily used as a test when flushing the printer with cleaning solution. What you would do after flushing the printer with cleaning solution is Select All so that the printer prints a bar for each channel. If you do a print purge on all 8 channels and nothing but cleaning solution comes out, you know that the machine has been completely flushed correctly. If you do a print purge and you see pigment come out in any of the 8 channels, you must continue flushing the printer with cleaning solution.



## Understanding EKPrint Studio

# Quality Tab

**Quality Tab:**

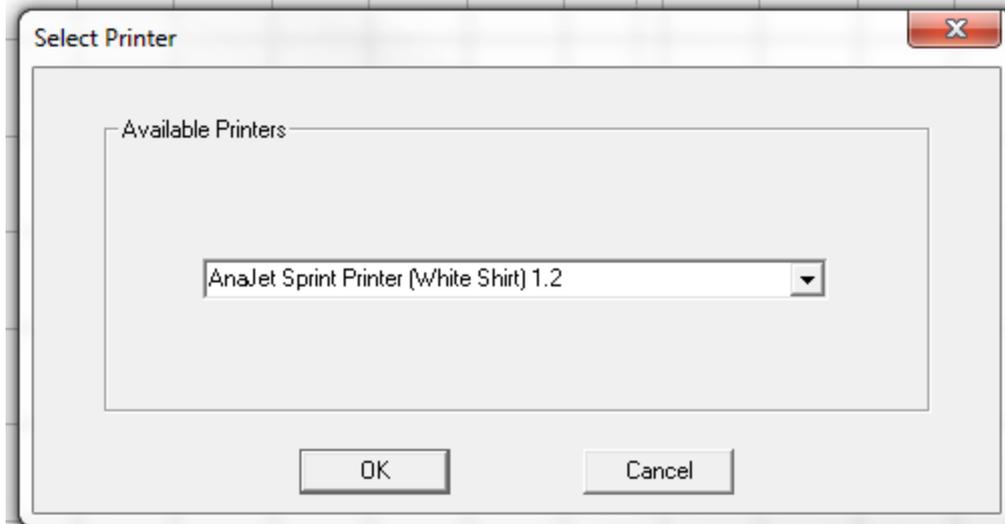
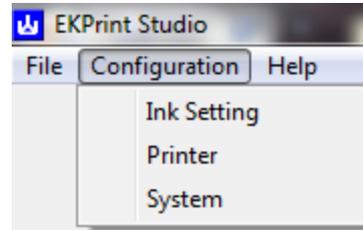
In this tab, you will notice a drop down menu next to Image and White Underbase. Within the drop down menu, you have Speed, Fine and Superfine. These settings are referring to how far the table jumps when advancing to the next line of the print. At the Speed setting, the table is making a large jump to finish the print job quicker. If you change this to Fine or Superfine, the jump is smaller which means there will be more ink saturation. Typically, you will never use fine. You will use either speed or superfine because there is not a noticeable difference between Speed and Fine. Also, you would NEVER want to have the White Underbase at anything but Speed. Using fine or superfine for the white Underbase is not necessary and would waste white ink. You will however want to use the Superfine setting for Image. If you use the superfine setting, you want to lower the ink level by 1 to compensate for print speed and saturation. Using the superfine settings works great when printing large areas of the same color because of the amount of saturation that is given.

### Understanding EKPrint Studio

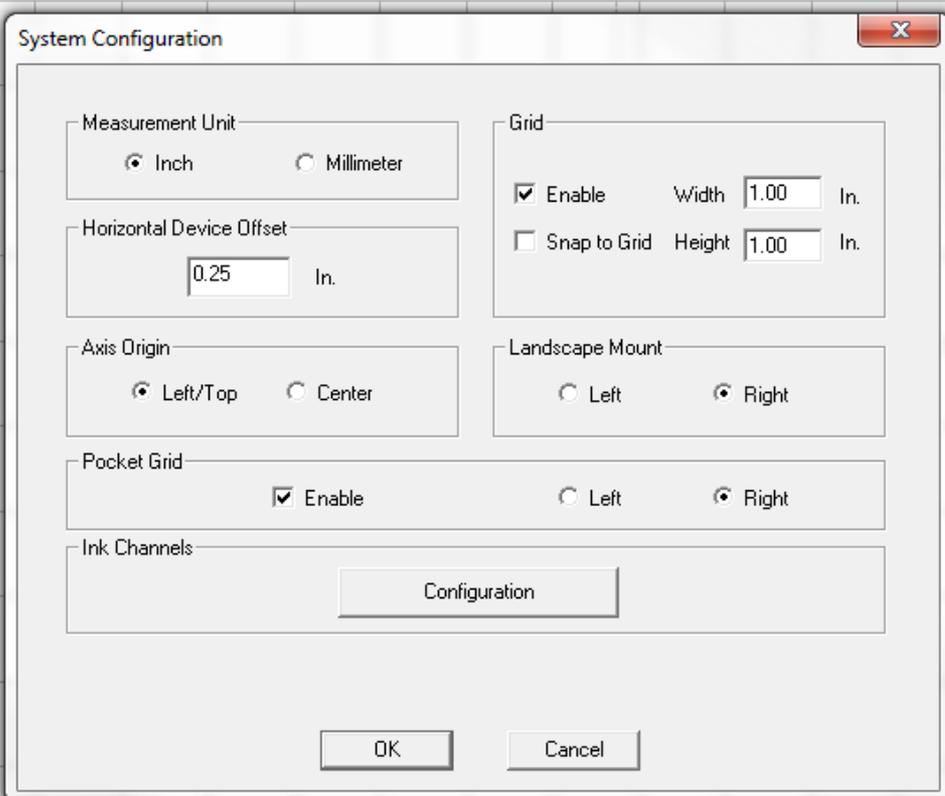
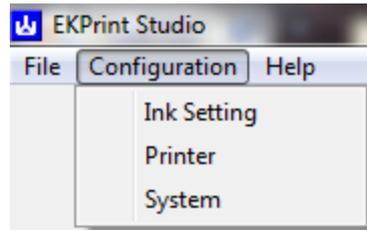
# Configuration Drop Down Menu - Printer

#### Printer:

You want to click on the configuration drop down menu then click Printer to make sure the AnaJet Driver is selected. If a different printer is selected here and you tried sending a command to the printer, nothing would happen.



## Understanding EKPrint Studio

**Configuration Drop Down Menu - System****Measurement Unit:**

This is referring to the unit of measure for the guides on the table as well as the size and position of the image. You can select Inches or Millimeters.

**Grid:**

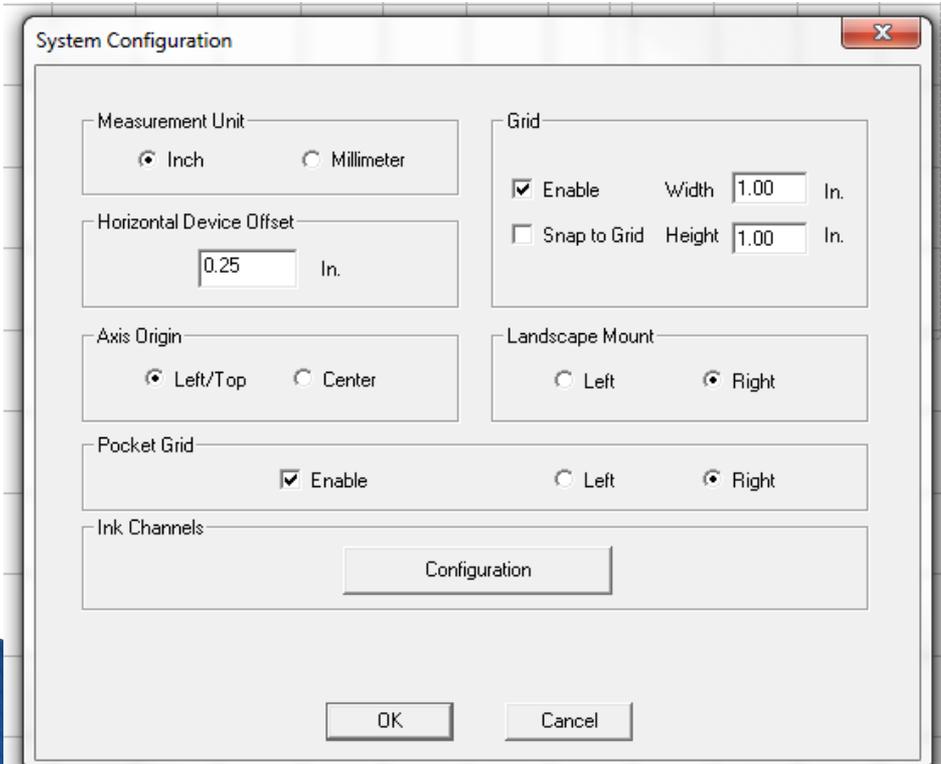
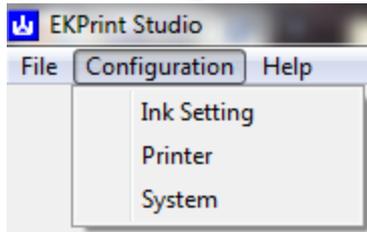
In this area, you can choose to turn on and off the grid for the table as well as change the width and height of the grid boxes. You can also select Snap to Grid which will make it so that every time you move the image on the table, it will snap to the nearest grid. This is typically unchecked.

**Horizontal Device Offset:**

The value entered here is set to default at 0.28 and should not be changed unless your image is not printing exactly where it should. If your image is printing a little to the left or a little to the right, you can increase or decrease this value until your image prints exactly as it appears on the table in EKPrint Studio.

## Understanding EKPrint Studio

# System Configuration Continued

**Axis Origin:**

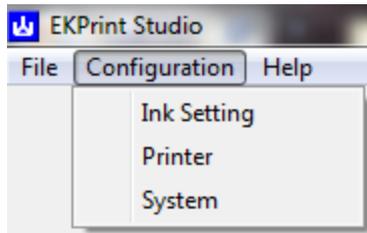
This option is referring to Image Position which will be discussed a little later. This is typically set to Left/Top. When this is set to Left/Top, the image position options change to Left and Top. When this is changed to Center, the Image Position options are changed to horizontal and vertical. When Left/Top is selected and you input 1 inch for the Top field, it will place the image 1 inch from the top of the table. If Center is selected and you input 1 inch for horizontal, the image will be moved 1 inch to the right horizontally. This is because when center is selected, the value for the center of the table is set to 0.

**Landscape Mount:**

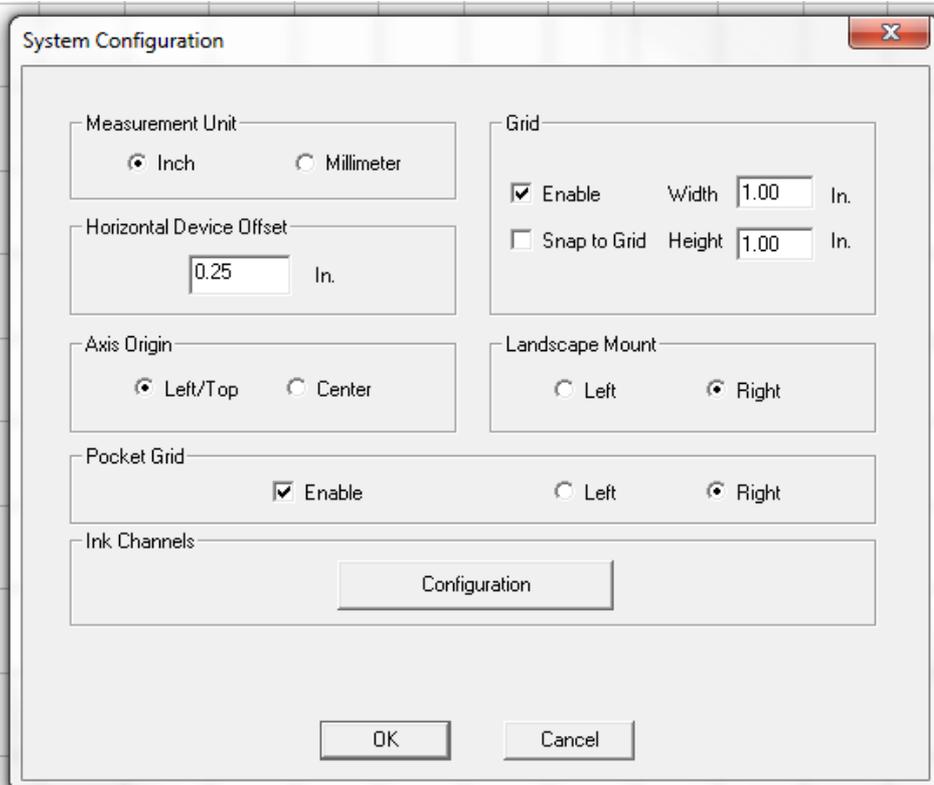
This is used when changing the table size from Portrait to Landscape, which will be discussed a bit later. If you notice the top of the table in EKPrint Studio, there is a grey colored strip. This indicated the top of the table. If you change the Landscape mount to left or right, it will change the way you are supposed to load the shirt onto the table. For example if you changed the table size to Landscape then selected Left for the landscape mount, you would have to load the shirt with the top of the shirt on the left of the print table, away from the control panel. If you selected Right, you have to load the shirt with the Top of the shirt on the right edge of the print table which is closer to the control panel.

## Understanding EKPrint Studio

# System Configuration Continued

**Pocket Grid:**

This is where you can either turn on or off the pocket grid outline on the table. You can change the position of this grid from left to right. This is used as a reference when doing pocket prints and represents where the pocket adapter fits onto the table.



### Understanding EKPrint Studio

# Ink Channel Configuration

**Ink Channels Configuration**

Ink Bay Channel Assignment (Left to Right)

Front	Back
#1 Y	#5 Y/W
#2 M	#6 M/W
#3 C	#7 C/W
#4 K	#8 K/W

To verify the correct color channel order configuration :

1. Load 8.5x11 paper at the lower right corner of printing table
2. Click Test Print Button below
3. If printed color bar order is not CMYK-CMYK or CMYK-WWWW, please adjust the channel configuration above.

Test Print

Damper Assignment

- SPRINT Rev. B Damper Configuration (Damper Order: 5-2-3-8-1-6-7-4)
- SPRINT Original Damper Configuration (Damper Order: 1-2-3-4-5-6-7-8)

Default OK Cancel

### Configuration Button:

After clicking this button, a window will pop up that will display numbers 1-8 with a drop down menu for each number. The numbers represent each channel on the printer and the letter represents the color for that channel. These values should NEVER be changed. This dialog box is telling channel 1 to print yellow, channel 2 to print magenta and so on. If you changed #2 from M to C, every time the printer prints an image it will think to pull the Cyan from channel 2 which is incorrect and you will get very bad prints. DO NOT change anything in this dialog box unless AnaJet Technical Support advises you to make a change.

### Test Print:

This is an option to test to make sure that each channel has the correct color and would never need to be printed. Simply make sure that the dialog box pictured looks identical to yours.

### Damper Assignment:

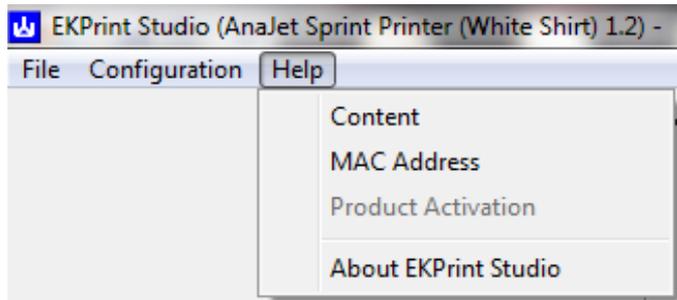
If you have a Sprint Printer with EKPrint Studio 3.3 or higher, SPRINT Rev.B Damper Configuration MUST be selected. If it is not, the colors in your prints will be wrong.

### Default:

If you think something in this dialog box has changed, you can select default to bring everything back the way it is supposed to be.

### Understanding EKPrint Studio

# Help Drop Down Menu



#### **Content:**

This is a link that takes you to Eukon Digital's website where they have FAQ, EKPrint Studio User's Manual and information about the EKPrint RIP Driver.

#### **MAC Address:**

Clicking on this will make a window pop up telling you the MAC address of your computer. This needed when activating EKPrint Studio.

#### **Product Activation:**

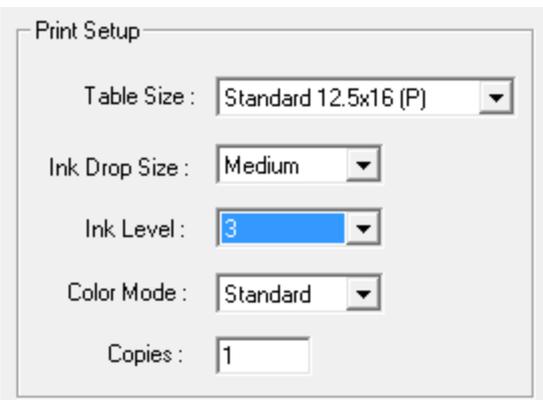
This is used when you first setup EKPrint Studio and you must activate the program. Click product activation then select "Activate through Internet". Install license file would be selected if you needed to activate the program but do not have an internet connection.

#### **About EKPrint Studio:**

This will display a dialog box telling you which version of EKPrint Studio you have.

## Understanding EKPrint Studio

# Printer Setup



The screenshot shows the 'Print Setup' dialog box with the following settings:

- Table Size: Standard 12.5x16 (P)
- Ink Drop Size: Medium
- Ink Level: 3
- Color Mode: Standard
- Copies: 1

## Table Size

In this area of the program, you can change the table size to go with the table that you have installed on printer. There are 3 tables that you can install on the printer and I have listed them below. In this drop down menu, you will notice a (P) and (L). The (P) is for Portrait and the (L) is for landscape. You will most commonly be using the (P) option. If you wanted to print something wide, such as the last name of someone on the back of a jersey, you could use the (L) option. This will switch the table to landscape mode and you would have to load the garment onto the table sideways. Notice the notch at the top of the table (highlighted in the picture). This tells us that this end of the table is the front and you would use this so that you know which way to load the shirt onto the table.

### Standard 12.5x16

This is the table that comes with the printer and is the most commonly used.

### Youth 8.5x12

This table would be used to print on clothing for small children or babies.

### Long 8.5x16

This table is used for printing in sleeves or ribbed tank tops but you could also use the standard table for this.

## Understanding EKPrint Studio

# Printer Setup Continued

Print Setup

Table Size : Standard 12.5x16 (P)

Ink Drop Size : Medium

Ink Level : 3

Color Mode : Standard

Copies : 1

## Ink Drop Size



## Ink Level



### Ink Drop Size

This is referring to the actual size of the droplet of ink that comes out of the print head. You have light, medium and heavy. You will most commonly be using the medium drop size but depending on the graphic and what you are printing on, you would want to change this to light or heavy. For example when printing onto thick garments such as hoodies, you want to use the Heavy drop size. If you are printing onto canvas, you want to use the Light drop size. Below is how much ink in Pica liters each drop size uses.

Light Drop Size – 8 Pica Liters

Medium Drop Size – 16 Pica Liters

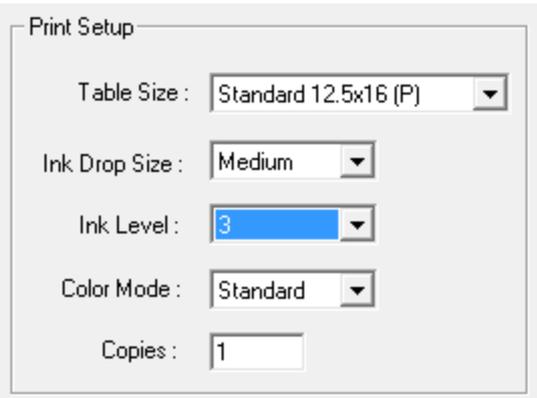
Heavy Drop Size – 32 Pica Liters

### Ink Level

This value is referring to how many passes the print head makes before the table advances and the printer prints the next line. If the level was at 2, the print head would make 2 passes then the table would jump and start printing the next line. As a rule of thumb when printing onto light colored garment, you would have the drop size set to Medium and the Ink Level set to 3. If you are printing with white ink, the drop size would be Medium and the Ink Level would be set to 2.

## Understanding EKPrint Studio

# Printer Setup Continued



Print Setup

Table Size : Standard 12.5x16 (P)

Ink Drop Size : Medium

Ink Level : 3

Color Mode : Standard

Copies : 1

**Color Mode:**

In this drop down menu, you have 5 options. Standard, Vivid, Neutral, Photo and Black/White mode. I have listed the modes below and explain which each one does.

**Standard** – This is the most commonly used color mode and it will print true to the colors in the artwork.

**Vivid** – This mode will over saturate by default and is used to enhance the colors for more vibrancy. Be careful when using this color mode because it will slightly change the colors in the design.

**Neutral** – This mode is different from the rest in that the way the print head fires the ink. With all the other modes, the print head will fire ink in a spray paint like fashion for fill purposes. In Neutral mode, the print head will spray the ink in an organized pattern where each droplet of ink lands directly on top of another droplet of ink. This setting is great for pictures of landscapes or if you want a faded look to the print.

**Photo** – This mode is great for printing images of people where you can see skin tone. If you are printing a photo of people far away or of a landscape, use Neutral or Standard.

**Black/White** – This mode will print your full color design in grayscale. It works especially well when printing a design that only has black in it. It works well for this because when using Black/White mode, it will pull ink from only the black cartridge where as with all the other color modes, the printer mixes colors to create a rich black. Using the Black/White mode to print black ink will give you a nice jet black.

## Understanding EKPrint Studio

# Printer Setup Continued

Print Setup

Table Size : Standard 12.5x16 (P) ▼

Ink Drop Size : Medium ▼

Ink Level : 3 ▼

Color Mode : Standard ▼

Copies : 1

## Copies

In this section, you can input the amount of copies you want to print. It is a good idea to not send more than 10 copies at a time. Sending many copies of a design to the printer creates a very large file and would slow down the printing process. Also, if you wanted to change something and cancel the job, it would take much longer to cancel if there were a lot of copies as opposed to just a few copies.

## Understanding EKPrint Studio

# Image Settings

In this section of EKPrint Studio, you can make adjustments to the size and rotation of the image.

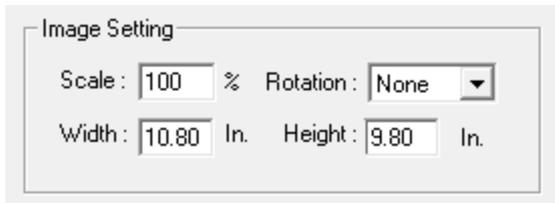


Image Setting

Scale:  % Rotation:  ▾

Width:  In. Height:  In.

**Scale:**

This option allows you to scale the image up and down by percentage.

**Width/Height:**

In this area, you can input a value to make the image exactly that size. For example, you can input 10 for the width and EKPrint Studio will proportionally make the image smaller or larger so that the width is exactly 10 inches.

**Rotation:**

In this drop down menu, you can rotate the image however you like. If you rotate the image and want it back to how it was, simply select NONE in this drop down menu.

**CAUTION:**

If the image is larger than the table size or the canvas size of the image is larger than the table size, EKPrint Studio will not be able to process the information and you will get a "Scaling Error". To resolve this issue, simply make the image and/or canvas size of the image smaller than the table size.

## Understanding EKPrint Studio

**Image Position & Textile Color****Left/Top:**

This value represent the location of the image as it relates to how far it is from the left and top edge of the table. For example if you input a 1 for Top, it will move the image to where the top of the image is 1 inch away from the top of the table. As a rule of thumb when printing a design onto the front of the shirt, you want to input 1 for Top and have Center Adjusted selected. With this setting, your graphic will be printed at the standard location for the front of a shirt.

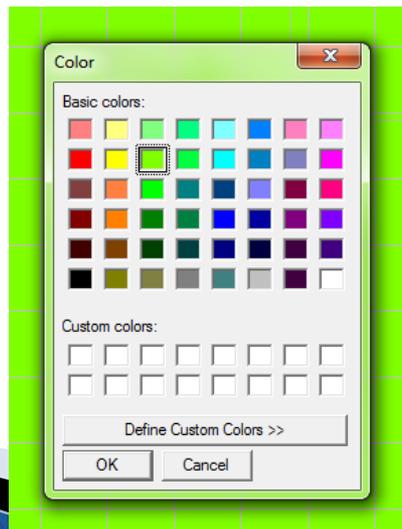
**Center Adjusted:**

Having this checked will center the image back to the center of the table.

Image Position

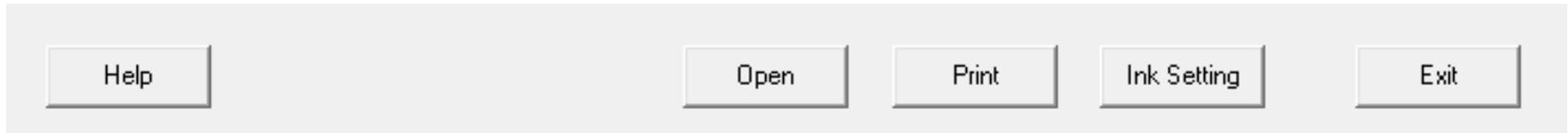
Left :  In.    Top :  In.

Center Adjusted :

**Textile Color:**

This is an optional setting that has no effect on the outcome of the print. It is simply used as a visual reference. If you like, you can click on this and change the background color of the table so you can see how your design could look on different colors.

## Understanding EKPrint Studio

***Help, Open, Print, Ink Settings and Exit Buttons*****Help:**

This is a link back to Eukon Digital's website. It is the same link as the Content option from the Help drop down menu.

**Open:**

Clicking this will allow you to open your image.

**Print:**

Sends the print job to the Anajet.

**Ink Settings:**

This takes you to the same ink settings as when selecting the Configuration drop down menu and selecting Ink Settings.

**Exit:**

Closes EKPrint Studio.

## Understanding EKPrint Studio

**White Ink Underbase**

White Ink Underbase

Enabled :

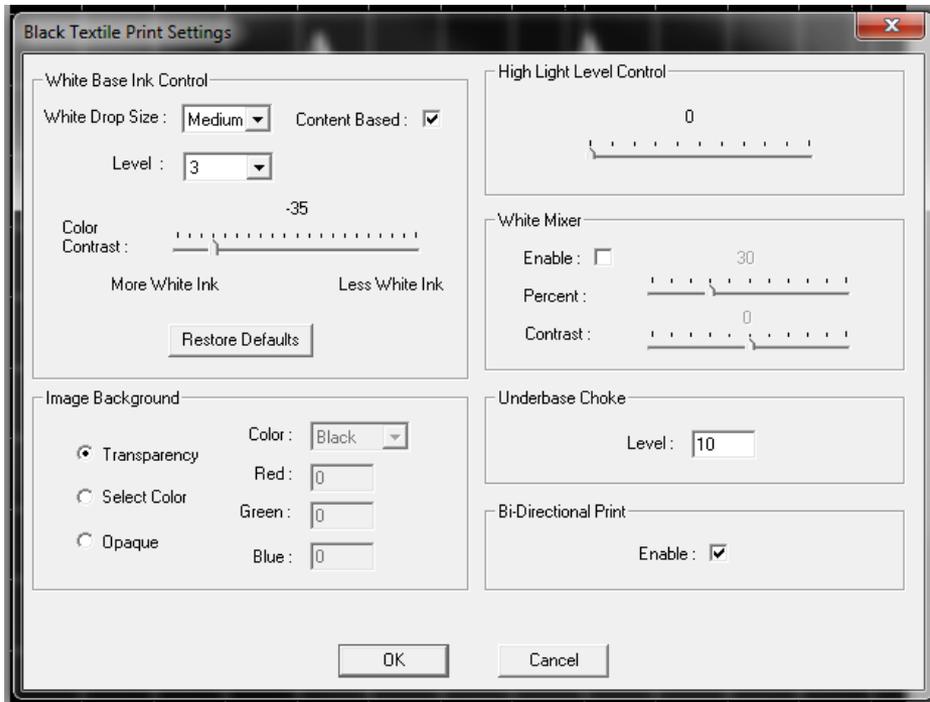
Preview :

Settings

**White Ink Underbase:**

In order for the printer to print white ink, we must tell it to this by selecting Enabled under white ink Underbase. If Enabled is not selected, the printer will not print white ink. After clicking enabled, the table background will automatically turn black and you will now be able to select Settings next to the Enabled checkbox. Clicking the settings button will open a dialog box that displays all of the white ink Underbase controls.

## Understanding EKPrint Studio

**White Underbase Settings****White Drop Size:**

This option works the same way to color drop size works. This is referring the actual size of the drop of ink that the printer prints. As a rule of thumb, this is always set to Medium.

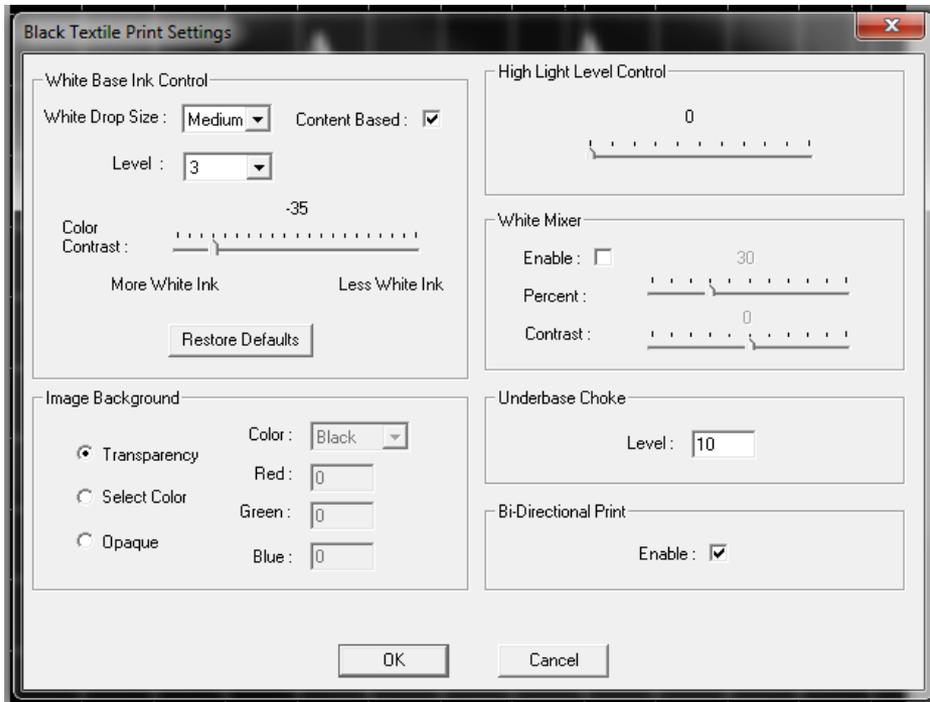
**Level:**

This works the same way the level works for the color level. It is the number of times the print head fires before advancing to the next line. As a rule of thumb, this is always set to 3.

**Content Based:**

This is the most important option in the white ink Underbase settings. If Content Based is checked, the printer will print a gradient white Underbase. It will print more white where it knows it needs it and less white where it knows it does not need it. This is used to save on ink usage. If Content Based is not checked, the printer will print a solid white Underbase.

## Understanding EKPrint Studio

**White Underbase Settings Continued****Color Contrast Slider:**

When content based is selected, the further the slider is to the left, the more white ink will print and further it goes to the right, the less white ink will print. In both instances, the Underbase will still be a gradient Underbase. This simply controls the amount of white that is printed for the gradient Underbase. If content based is not checked, the slider will control the variances in image transparency. For example if you were printing an image that had a gradient white that went from solid white and faded to nothing, you would want to increase the slider bar and move it to the right. I will show you an example of the types of graphics that require this a bit later.

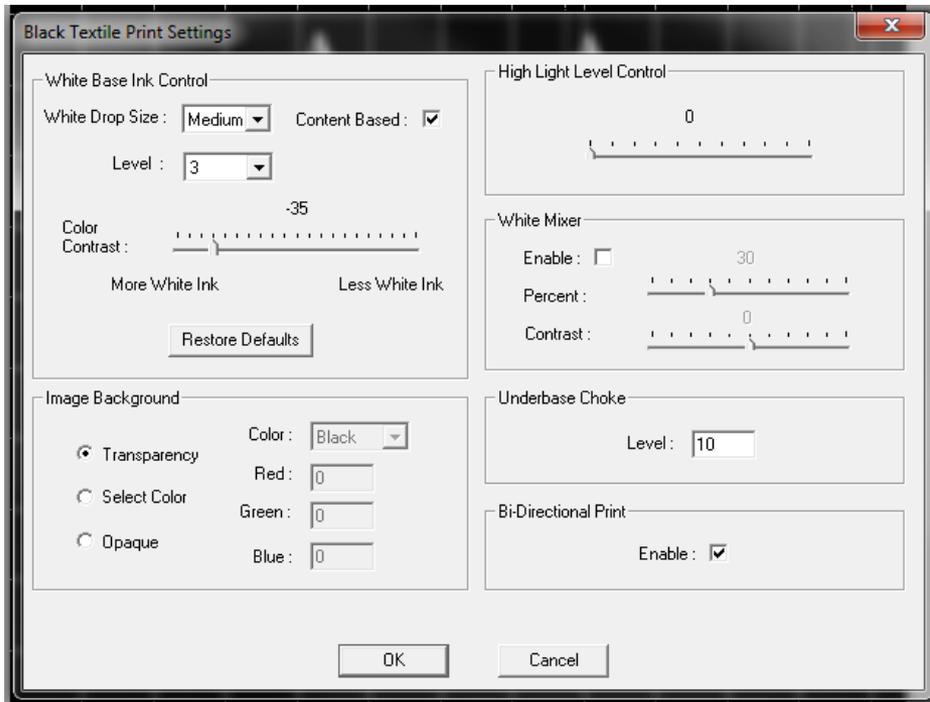
**Restore Defaults:**

Clicking this will restore the drop size, level and contrast back to default and automatically place a checkmark for Content Based.

**Highlight Level Control:**

This option allows you to print more white ink in the white areas of the design during the color pass. This is also used if you are printing a design that has white in the design but does not require a white Underbase. You can take this to 100, change the Level to 0 and the printer will print the image with the white ink in the design and not print an Underbase.

## Understanding EKPrint Studio

**White Underbase Settings Continued****White Mixer:**

This is a feature in the white Underbase settings that is typically not used. What it does is mix white ink with the color ink to give you pastel-like colors. The percent bar ranges from 0-100 and is referring the amount of ink that is being mixed into the color ink. It is a percentage of the color ink level. The contrast setting ranges from -50 to +50 with the larger value mixing less white ink with the darker colors and more white ink with the lighter colors.

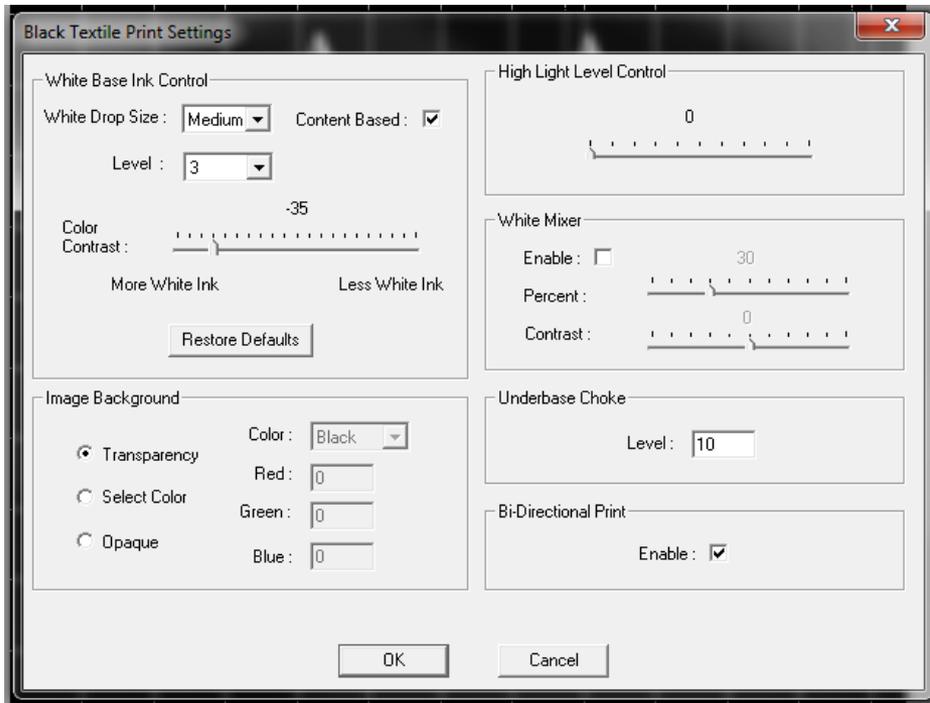
**Underbase Choke:**

This is equivalent to a trap in screen printing. The default value is set to 10 and this is referring to 10 pixels. What this does is it allows the printer to print the white ink Underbase 10 pixels smaller than the color pass. You want to Underbase to print a bit small so that when the color prints over it, there is no white ink sticking out. The greater the value for the choke, the smaller the Underbase gets and the smaller the value for the choke, the larger the Underbase gets. Adjusting the choke is primarily used when printing small text and/or fine lines. If you were printing small text or fine lines, you want to decrease this value to 1.

**Bi-Directional Printing:**

This works the same way the color Bi-Directional printing works. You want to uncheck this if you are printing a small image of 4 inches or less.

## Understanding EKPrint Studio

**White Underbase Settings Continued****Image Background:**

Before bringing your image in to be printed on a dark shirt, you must first remove the background. If the image has a white background, the printer will print the white background. EKPrint Studio knows if there is a background in the image. The ideal situation is to have the background already removed in which case Transparency would automatically be selected in this section of the white ink Underbase settings. If you bring an image into EKPrint Studio and it had say a red background. EKPrint Studio will recognize that you have a background in the image and Opaque will automatically be selected. The image background setting has the capability of removing the background for you, but it is not perfect. If you brought in an image with a red background, you could select "Select Color" then select Red from the drop down menu and EKPrint Studio will delete all the red in the design. It will delete the red background as well as all the other red in the design. This is why it is best to use your design applications such as Photoshop or Photoshop elements to remove the background before bringing the image into EKPrint Studio.

## Understanding EKPrint Studio

***Ink Settings For “Standard Graphics”***

When printing a “Standard” graphic, such as this pirate design onto a black shirt, you want to print this with the following ink settings.

**Color Pass:**

*Ink Drop Size: Medium*

*Ink Level: 2*

*Color Mode: Vivid*

*Brightness +32*

**White Ink Underbase Settings:**

*Default settings with Content Based Unchecked.*

If this design were setup to be printed in a light colored garment, you would want to use the following ink settings:

**Color Pass:**

*Ink Drop Size: Medium*

*Ink Level: 3*

*Color Mode: Vivid*

*Brightness +32*

**Note:** Using Vivid will automatically over saturate to make the image pop. If the saturation is too much, change the color mode from Vivid to Standard.

### Understanding EKPrint Studio

## Ink Settings For “Standard Graphic” Continued

**Print Setup**

Table Size : Standard 12.5x16 (P)

Ink Drop Size : Medium

Ink Level : 2

Color Mode : Vivid

Copies : 1

---

**Image Setting**

Scale : 100 % Rotation : None

Width : 10.80 In. Height : 9.80 In.

---

**Image Position**

Left : 0.85 In. Top : 1 In.

Center Adjusted :

---

**White Ink Underbase**

Enabled :  Settings

Preview :

**Utilities**

Ink Level | Utilities | Print Purge | Quality

Choose ink drop size

Heavy  Medium  Light

1. Choose the ink drop size above
2. Click Test Pattern Below
3. Press PRINT key on your Printer keypad
4. From the test pattern choose the highest ink density level with deepest color, without bleeding.
5. Enter the optimum ink value below, then click OK

Test Pattern

Ink Level 2

**Adjustment**

Lightness 0

Brightness +32

Contrast 0

**Channel Setup**

YMCK-WWWW

Bi-Directional Printing

OK Cancel

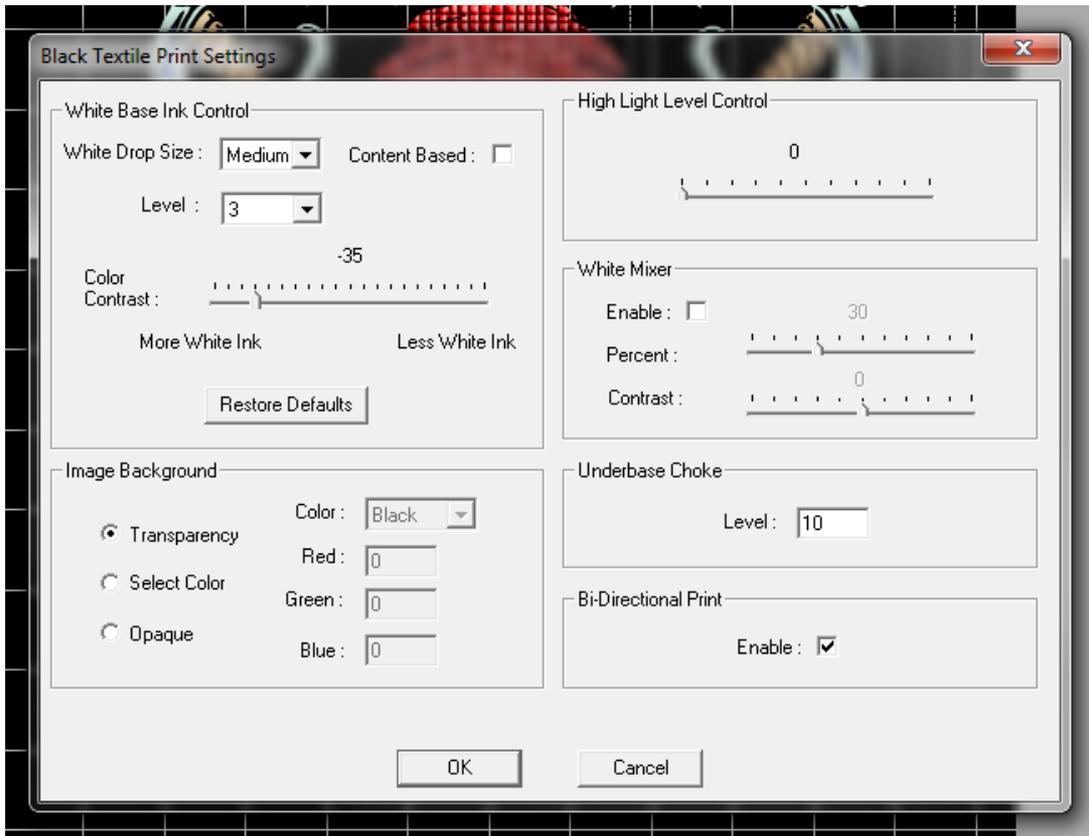
When printing a design similar to that of the pirate design, here is how your dialog boxes for the color pass should look.

Notice how the field for Top in Image Position says 1 inch. Changing this value to 1 and positioning the shirt onto the table where the collar just hangs over, will place the image perfectly onto the front of the shirt.

### Reason Behind These Ink Settings:

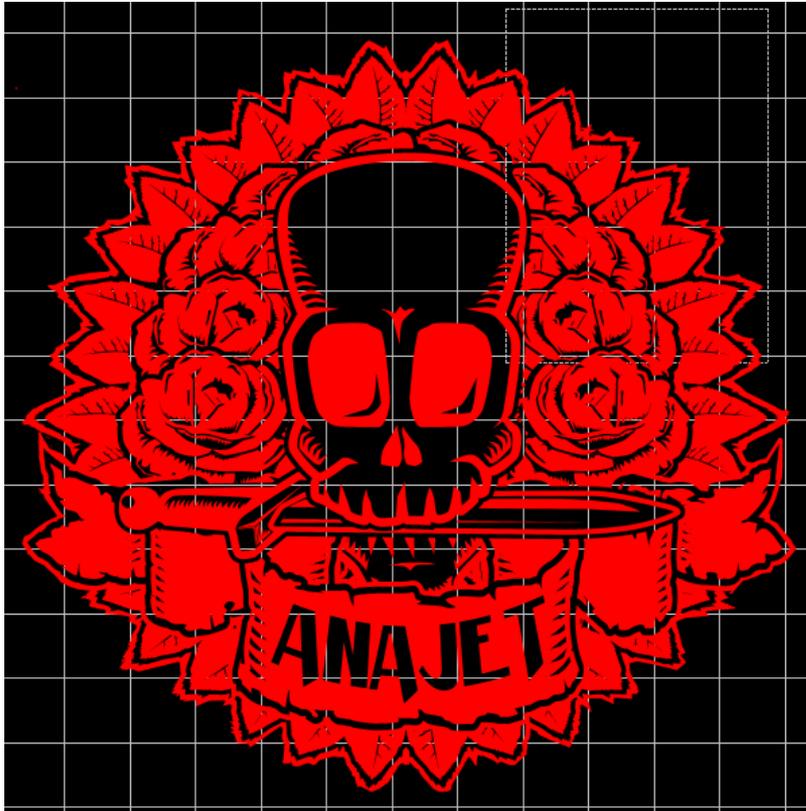
The standard ink level when printing onto a white underbase is 2. The standard ink level when printing straight onto a light colored garments without an underbase is 3. The reason why you want the level at 3 when printing directly onto a garment with an underbase is because the ink will absorb into the material which is why you need more ink. When printing on a white underbase, this absorption does not happen. The ink is laying on top of the white ink which is why the level is dropped by 1.

## Understanding EKPrint Studio

***Ink Settings For “Standard Graphic” Continued***

Here is the dialog box for the white ink underbase settings. These are the default settings. The only thing I changed was I unchecked Content Based. By doing this, the printer will print a solid white underbase which will make the color bright and vibrant. To conserve white ink, you could keep content based checked and print a gradient underbase, but the colors will not be as bright when compared to printing on a solid white base.

## Understanding EKPrint Studio

***Ink Settings For A Solid Color Design***

When printing a design that is a solid color or the design has large areas of the same color, you want to use the following ink settings.

**Color Pass:**

*Ink Drop Size: Light*

*Ink Level: 2*

*Color Mode: Standard*

*Brightness +32*

*Quality - Superfine*

**White Ink Underbase Settings:**

*Default settings with Content Based Unchecked.*

If this design was being printed onto a light colored garment, the ink settings are the same but you simply do not Enable the white ink underbase.

## Understanding EKPrint Studio

***Ink Settings For A Solid Color Design Continued*****Reason Behind These Settings:**

The reason we are printing this image with a light ink drop size is because we are using the superfine setting for quality. Since using this option will over saturate, we lower the drop size to compensate so that the print still comes out right. Anytime you have large areas of the same color, you want to use the superfine setting and either lower the ink level by 1 or lower the drop size to light. As always, I like to increase the brightness to +32 on everything I print to make the image look closer to what you see on the monitor.

Print Setup

Table Size : Standard 12.5x16 (P)

Ink Drop Size : Light

Ink Level : 2

Color Mode : Standard

Copies : 1

Image Setting

Scale : 100 % Rotation : None

Width : 12.00 In. Height : 12.00 In.

Image Position

Left : 0.25 In. Top : 1 In.

Center Adjusted :

White Ink Underbase

Enabled :  [Settings](#)

Preview :

Utilities

Ink Level | Utilities | Print Purge | Quality

Choose ink drop size

Heavy  Medium  Light

1. Choose the ink drop size above
2. Click Test Pattern Below
3. Press PRINT key on your Printer keypad
4. From the test pattern choose the highest ink density level with deepest color, without bleeding.
5. Enter the optimum ink value below, then click OK

[Test Pattern](#)

Ink Level 2

Adjustment

Lightness 0

Brightness +32

Contrast 0

Channel Setup

YMCK-WWWW

Bi-Directional Printing

OK Cancel

Utilities

Ink Level | Utilities | Print Purge | Quality

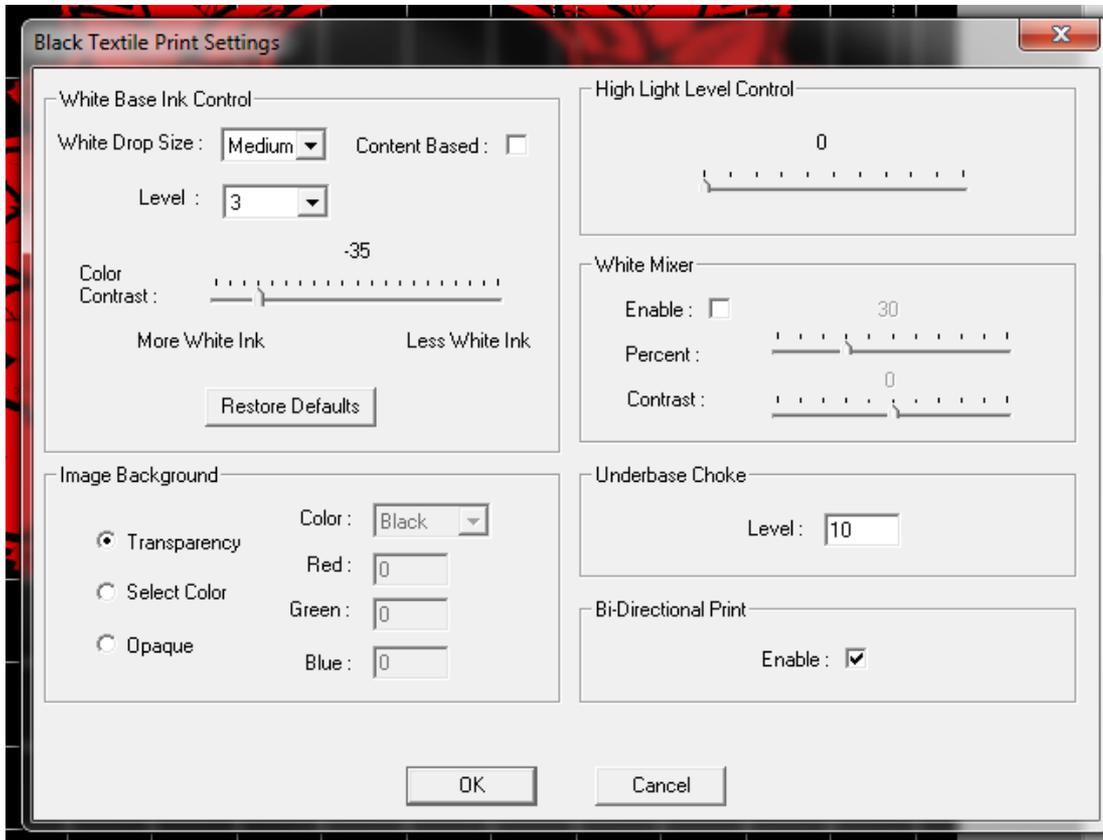
Quality Mode

Image Super Fine

White Underbase Speed

OK Cancel

## Understanding EKPrint Studio

***Ink Settings For A Solid Color Design Continued***

Here is the dialog box for the white ink underbase settings. Same as before, these settings will print a solid white underbase. Everything is set to default except content based has been unchecked.

Remember, when content based is checked, you get a gradient white underbase and when it is not checked, you will get a solid white underbase.

## Understanding EKPrint Studio

***Ink Settings For Single Pass Printing With White Ink***

Sometimes you will have a design that has white in the design but is being printed on a light colored shirt where a white underbase is not required. You can print this type of design in one pass using the correct ink settings. Those settings are as followed:

**Color Pass:**

*Ink Drop Size: Medium*

*Ink Level: 3*

*Color Mode: Standard*

*Brightness +32*

**White Ink Underbase Settings:**

*Ink Level: 0*

*Highlight Level Control: 100*

## Understanding EKPrint Studio

***Ink Settings For Single Pass Printing With White Ink  
Continued***

Print Setup

Table Size : Standard 12.5x16 (P)

Ink Drop Size : Medium

Ink Level : 3

Color Mode : Standard

Copies : 1

Image Setting

Scale : 100 % Rotation : None

Width : 9.49 In. Height : 7.82 In.

Image Position

Left : 1.50 In. Top : 1 In.

Center Adjusted :

White Ink Underbase

Enabled :  Settings

Preview :

Utilities

Ink Level | Utilities | Print Purge | Quality

Choose ink drop size

Heavy  Medium  Light

1. Choose the ink drop size above
2. Click Test Pattern Below
3. Press PRINT key on your Printer keypad
4. From the test pattern choose the highest ink density level with deepest color, without bleeding.
5. Enter the optimum ink value below , then click OK

Test Pattern

Ink Level : 3

Adjustment

Lightness : 0

Brightness : +32

Contrast : 0

Channel Setup

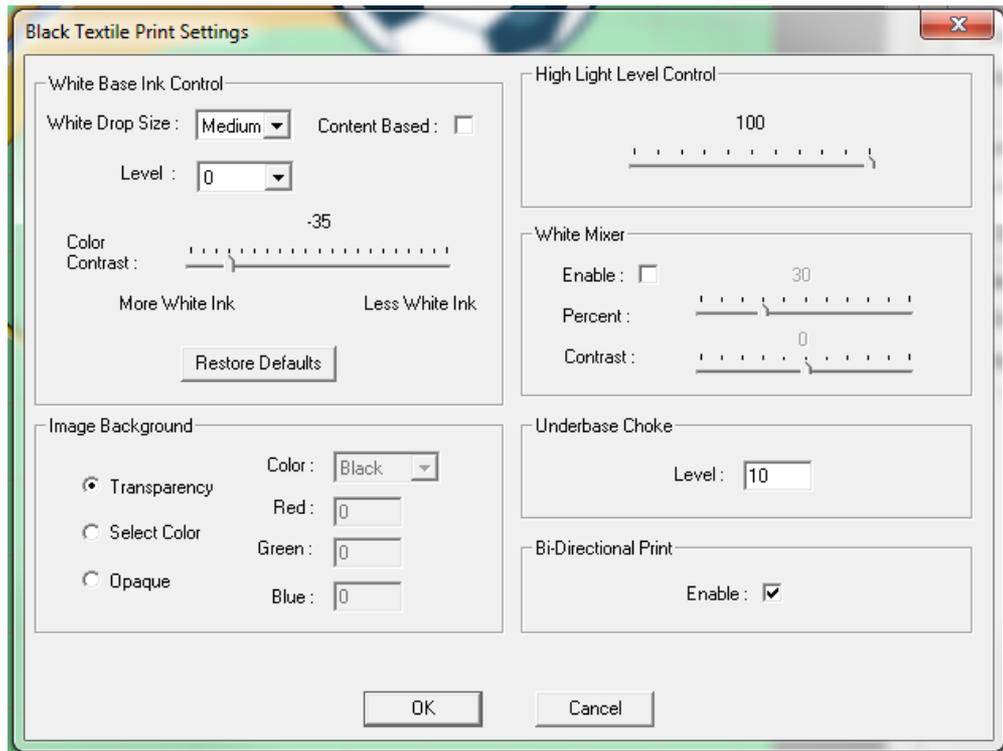
YMCK-WWWW

Bi-Directional Printing

OK Cancel

When printing this image, we are using the standard settings for printing on light colored garments, which is Medium 3 Standard with the Brightness all the way to +32. The only difference is that we are telling the RIP software to print white ink at the same time it prints the color ink, which is explained in the next slide.

## Understanding EKPrint Studio

***Ink Settings For Single Pass Printing With White Ink  
Continued***

By changing the ink level for the white ink underbase to 0, we are telling the RIP to not print an underbase.

By sliding the Highlight Level Control to 100, we are telling the RIP to print the white in the design at the same time it prints the color ink.

Also, since we are printing white ink, we still must pretreat the shirt before printing. Remember that white ink does not work unless the garment has been properly pretreated.

## Understanding EKPrint Studio

### ***Ink Settings For Designs With A Gradient White Underbase***

Sometimes you will have a design similar to that pictured below where you have white ink that gradients out to the color of the shirt. In order to make this print properly, there are specific ink settings we must use for the white ink underbase. The ink settings for such a graphic are as followed:



#### **Color Pass:**

*Ink Drop Size: Medium*

*Ink Level: 2*

*Color Mode: Vivid*

*Brightness +32*

#### **White Ink Underbase Settings:**

*Ink Drop Size: Medium*

*Ink Level: 3*

*Content Based NOT Checked*

*Contrast -15*

## Understanding EKPrint Studio

***Ink Settings For Designs With A Gradient White Underbase***

Print Setup

Table Size: Standard 12.5x16 (P)

Ink Drop Size: Medium

Ink Level: 2

Color Mode: Vivid

Copies: 1

Image Setting

Scale: 90 % Rotation: None

Width: 12.79 In. Height: 14.27 In.

Image Position

Left: 0.00 In. Top: 1.02 In.

Center Adjusted:

White Ink Underbase

Enabled:  Settings

Preview:

Utilities

Ink Level | Utilities | Print Purge | Quality

Choose ink drop size

Heavy  Medium  Light

1. Choose the ink drop size above
2. Click Test Pattern Below
3. Press PRINT key on your Printer keypad
4. From the test pattern choose the highest ink density level with deepest color, without bleeding.
5. Enter the optimum ink value below, then click OK

Test Pattern

Ink Level: 2

Adjustment

Lightness: 0

Brightness: +32

Contrast: 0

Channel Setup

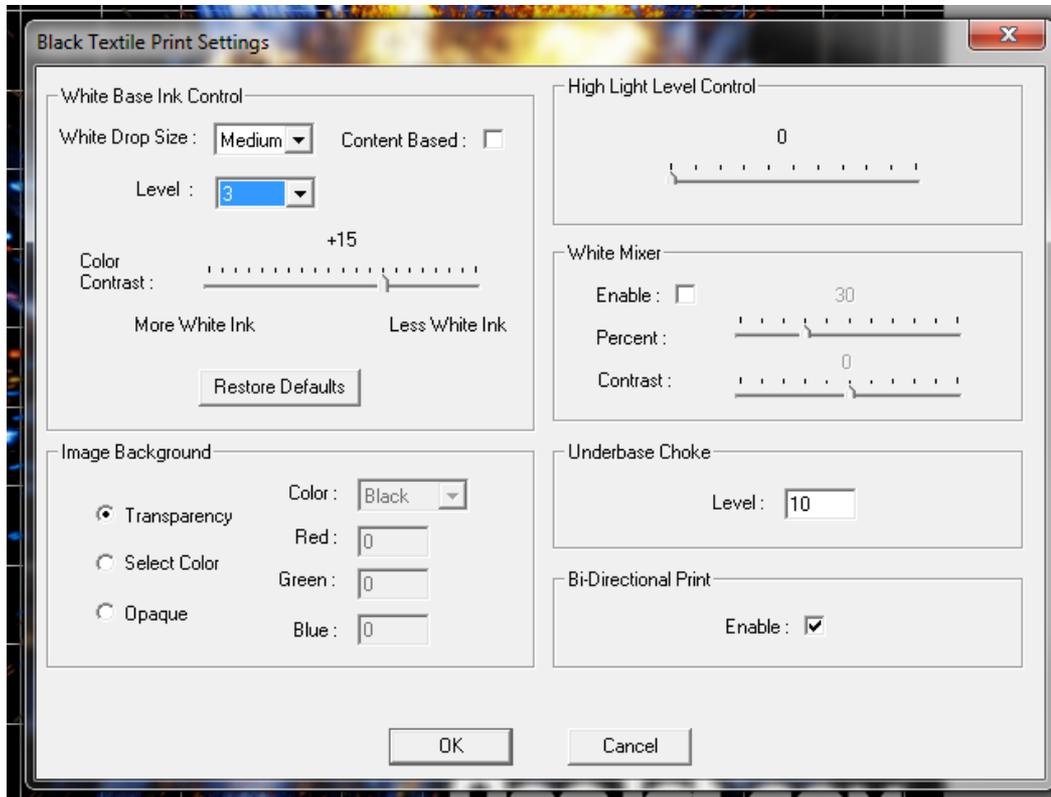
YMCK-WWWW

Bi-Directional Printing

OK Cancel

For the color ink settings in a design like this, we are using the standard ink setting when printing onto a white underbase. Also, keep in mind that using vivid for the color mode is optional as it will alter the colors in your design because it over saturates by default. If you want to stay true to the colors in the design, use Standard for the color mode and keep all other settings as they are described here.

## Understanding EKPrint Studio

***Ink Settings For Designs With A Gradient White Underbase***

In order for the white ink underbase to print where it gradients out to the color of the shirt, you must increase the Color Contrast. This is telling the RIP program to fade out the edges of the underbase. This setting is what makes printing images like this possible and this would be the only time you would want to take the Color Contrast into the positive.

## Understanding EKPrint Studio

**Q&A**

Please type your question into the Q&A area located on the bottom right side of your screen.

Please keep all questions related to content covered in this webinar

Due to the high volume of this webinar, not all questions may not be answered



## Understanding EKPrint Studio

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