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# InkZoneBox

Digital Ink Preset System



First release – May 2002  
Current release - version 1.9 – November 2003

In combination with Screen CIP3 Print

## Overview of workflow

### 1) TrueFlow

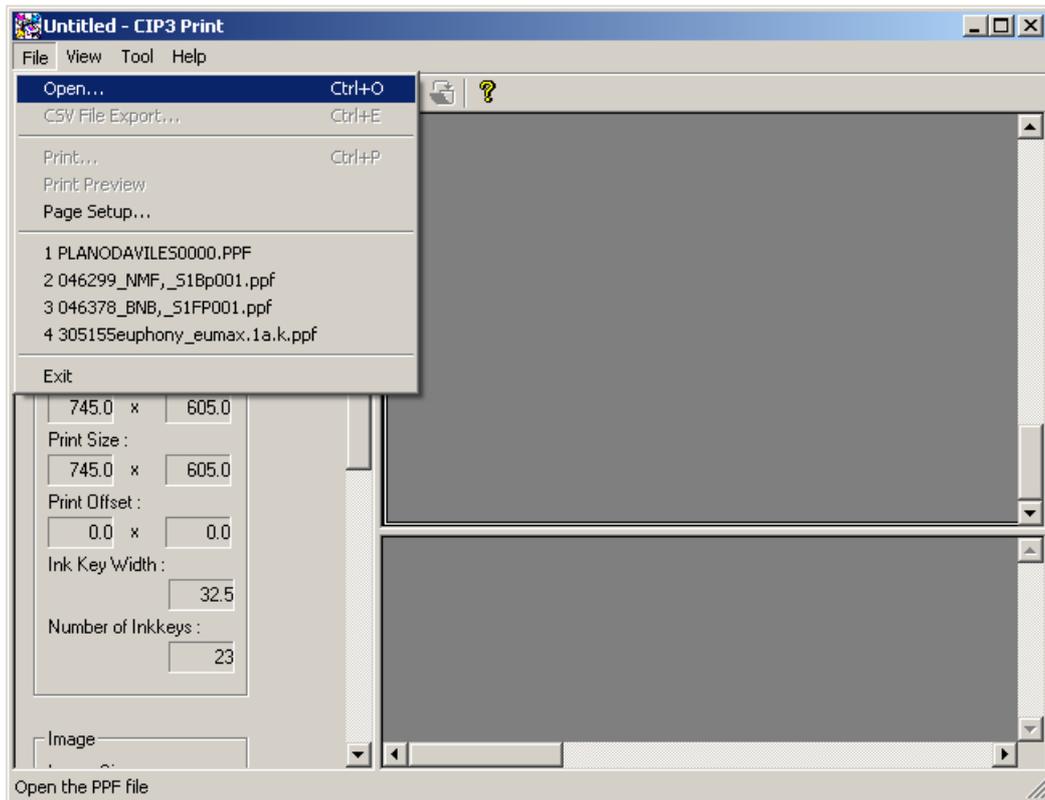
- in TrueFlow the CIP3 will be generated and saved in a specific directory, for example C:\CIP3

Note:

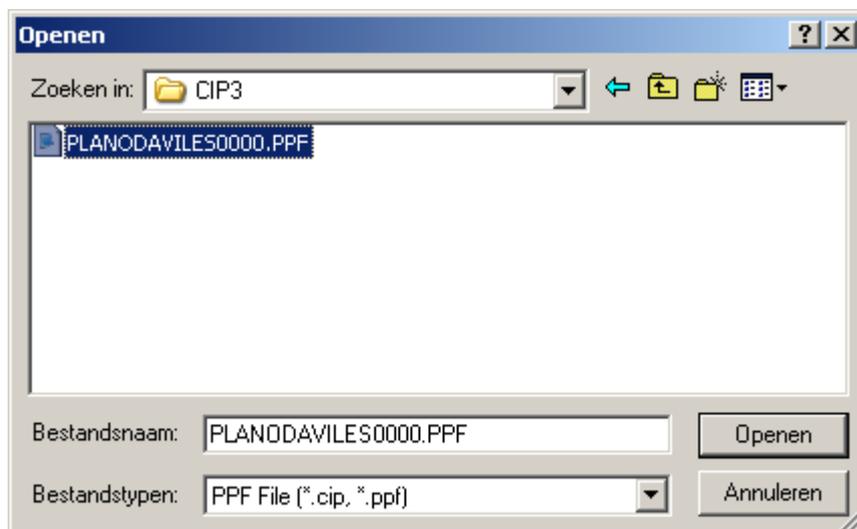
(make sure spotcolor doesn't contain 2x round brackets, thus the spotcolor name should look like (special red) and not (special red (Pantone 234))

### 2) CIP3Print

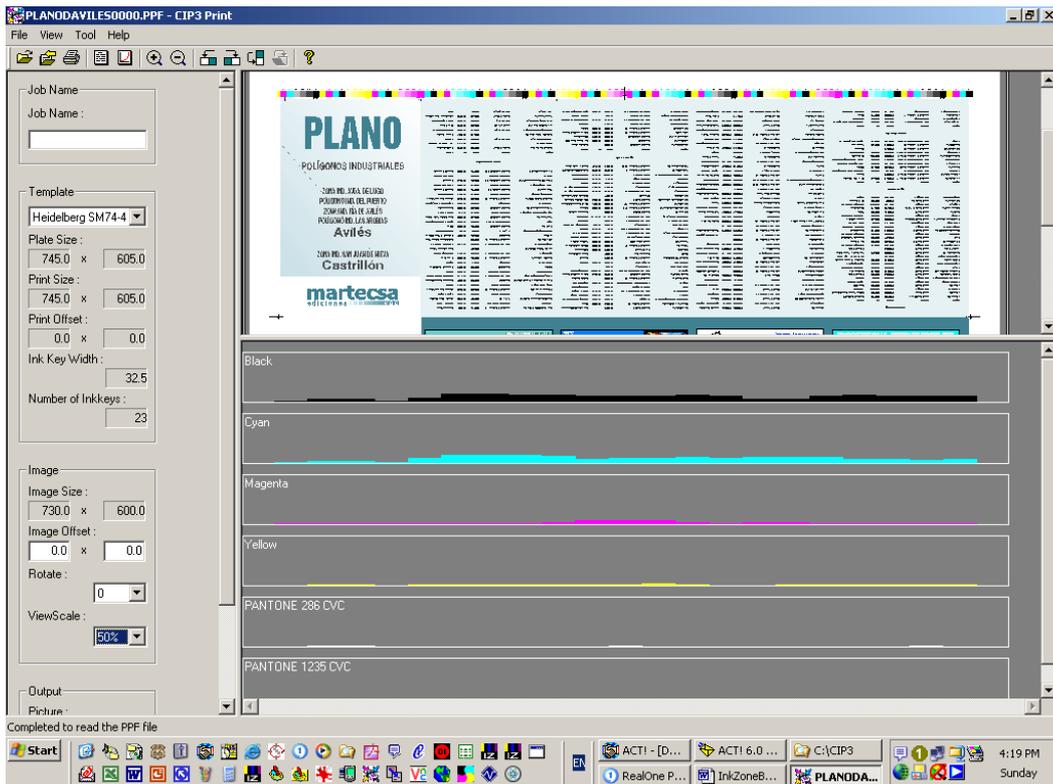
- within CIP3Print you have to open the CIP3 file



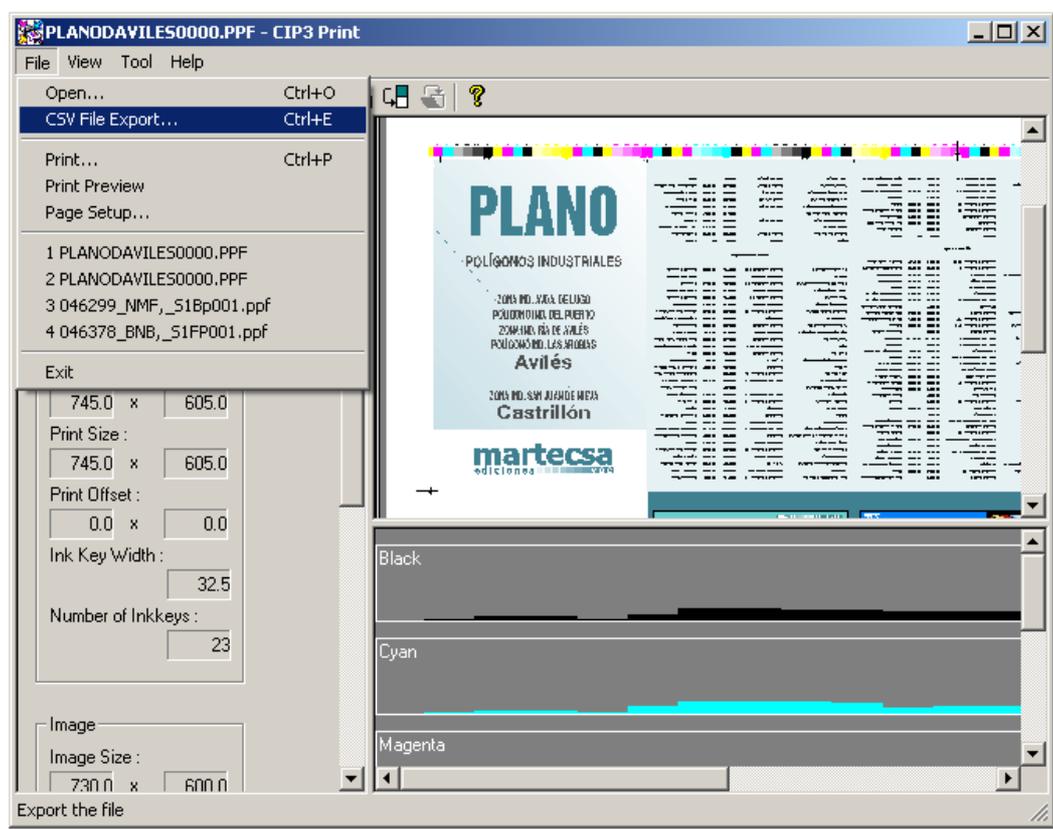
- click on Open and select the CIP3-file which you would like to convert



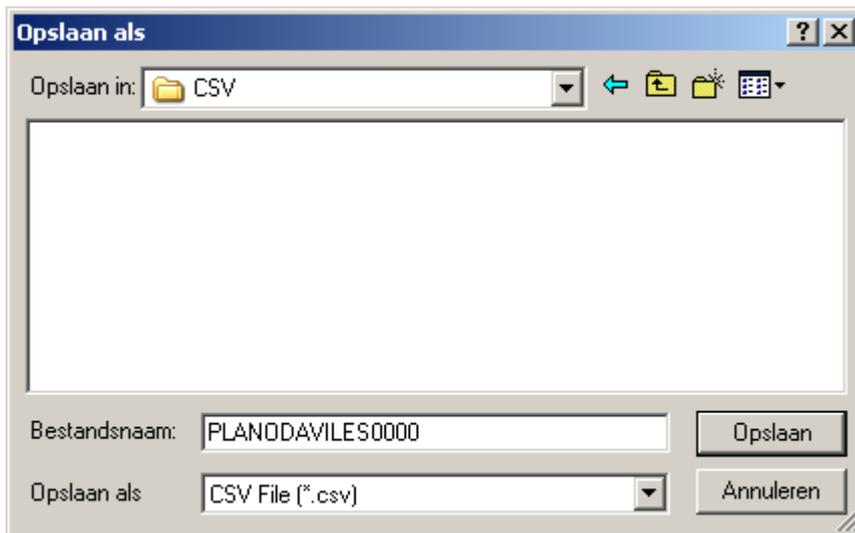
- Click on Open



- you will see the CIP3 image and the amount of colors
- click on File – CSV File Export



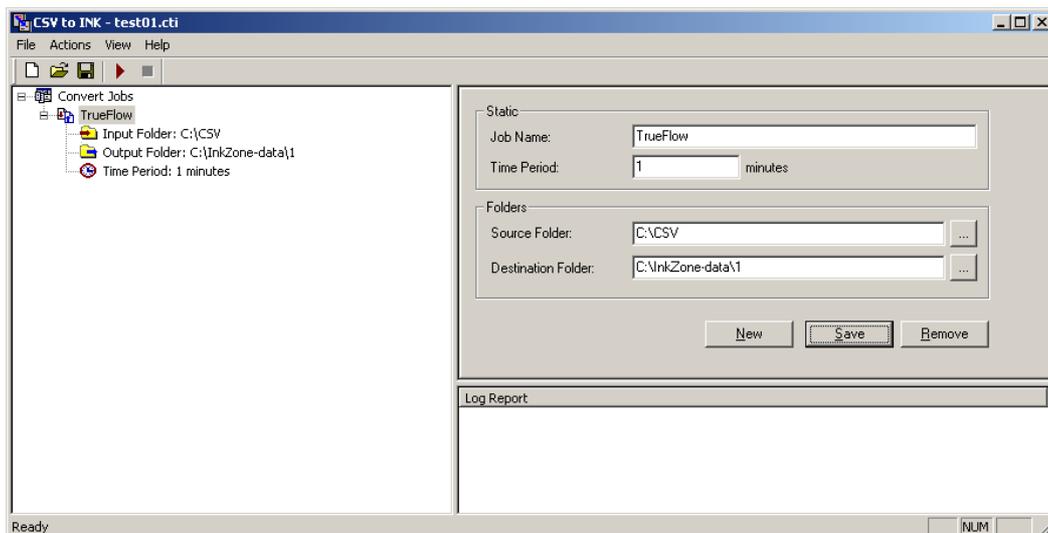
- select a path to save the CSV-file



- the CSV file will get the same name as the CIP3 file

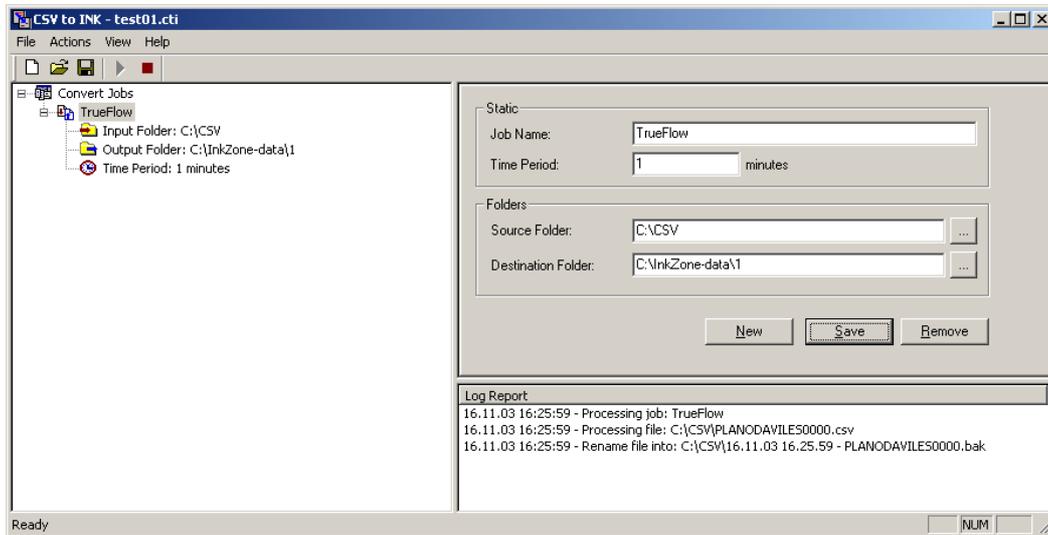
### 3) CSVtoINK

- open the "CSVtoINK" conversion program to convert the CSV file into the INK-file (which the InkZoneBox is able to read)



- the Source Folder is the C:\CSV directory
- the Destination Folder is the C:\InkZone-data\1 directory which will be read by the InkZoneBox – press 1
- make sure the settings are saved

- click on the large red arrow (under "View" in top menu bar) to start the program, it will now look every minute in the CSV-directory if new files are in, they will be converted



- within the C:\InkZone-data\1 directory you will find the correct INK-file

Start now with the step by step installation/configuration of the InkZoneBox

## Installation instructions

### 1) Information for the CIP3Print PC

- if possible give the PC the name InkZone, otherwise make a note of the name of the PC
- make note of the Workgroup of the PC
- on the system you should create an user: DIL – no password, password never expires, user can't change password
- create an export directy: for example c:\data\inkzone. The CSVtoINK application will write the inkzone-data files into this directory
- share this export directory with the name: InkZone
- install an extra network card (10 MB/s is OK but 100 MB/s is better)
  - o install only IPX as protocol
  - o make sure the File and Printer Sharing for Microsoft Networks is marked
  - o select the option: Show icon in taskbar when connected
- connect with a crossover cable this ethernet card to the InkZoneBox

Note:

See for an alternative connection Addendum A: TCP/IP connection

- install CIP3Print on the PC

### 2) Information for the CIP3Print + CSVtoINK PC

- create an Output folder for CIP3Print (CSV files)
- this Output folder is the Input folder for the CSVtoINK conversion program
- the Output folder from CSVtoINK is the Input folder for the InkZoneBox
- share this last directory

### 3) Information for the InkZoneBox

- the operation system of the InkZoneBox is DOS 6.22
- each InkZoneBox has software for a specific press with the specific press info
- within the InkZoneBox you will find one Heidelberg job card, the card is formatted
- connect on the backside of the InkZoneBox (only for temporary use) a keyboard and a monitor
- make sure the ethernet connection is still OK (to the internal ethercard and also to the CIP3Print PC
- startup the InkZoneBox (power switch is on the back side of the box)
- on the monitor you will see the startup procedure of the InkZoneBox
- click on Y - [Enter] at the first question
- click again on Y – [Enter] on the second question
- the InkZoneBox will continue starting up
- as soon as you will see the base screen on the InkZoneBox click F10 to stop the batch program

Base touch screen of the InkZoneBox



- you will see the DOS prompt at C:\DIPS
- type cd.. [Enter]
- type cd netw [Enter]
- type setup [Enter]
- the setup program for the internal network card will be opened
- scroll up to the option: Change Names – click on [Enter]
- scroll up to change the name of the workgroup – should be the workgroup of the CIP3Print PC and hit [Enter]
- hit [Enter] again, the text „The listed names are correct“ is marked
- hit [Enter] again, the text „The listed options are correct“ is marked
- hit [Enter] again to Continue .... the InkZoneBox will restart
  
- click on Y - [Enter] at the first question
- click again on Y – [Enter] on the second question
- the InkZoneBox will continue starting up
- as soon as you will see the base screen on the InkZoneBox click F10 to stop the batch program
  
- you will see the DOS prompt at C:\DIPS
- type „net use d: \\InkZone\InkZone“ Enter
  - o the order of the data is like [\\CIP3Print\\_PC\\_name\share\\_name\\_directory](#)
  
- start up the InkZoneBox again with the help of „Ctrl + Alt + Del“
- the InkZoneBox will now continue starting up

#### 4) After starting up InkZoneBox + CIP3Print system

- at start up the InkZoneBox will create at least 1 directory within the shared directory on the CIP3Print PC
- this directory will have the name 1, which correspondence with press 1 defined in the InkZoneBox
- if a second press will be defined in the InkZoneBox a directory with name 2 will be created
- in the main directory on the CIP3Print PC the InkZoneBox will also write a file DIPS.INF
  - o the file looks like:
 

```
[SETUP]
FILEVERSION = 1v00
DUCTOR = 3000
BMPSHOW = 0
```
  - o you can pre-set up the Ductor at 3000 = 30 %
  - o you can activate the preview function, when a monitor is connected to the InkZoneBox
    - BMPSHOW = 0 the preview is OFF
    - BMPSHOW = 1 the preview is ON

## 5) Procedure at the printing press

- load the job card into the card reader
- load the data into the press console
- put the plates on the press
- start printing, stop after for example 100-sheets and discuss the results
- if the result is OK, print the second job
- if the result is OK, print the third job
- if the result of the jobs are not OK we are able to adjust the linearization curve within the InkZoneBox (a detailed description will follow)

Note:

with the help of the InkZoneBox you will reduce the setup-time of the press, you will not get the setup by 100% ready, the pressman must adjust the inkkey values to reach the correct result

## 6) Linearization

The linearization curve within the InkZoneBox should become linear due to the fact that the curves are been handled within the CIP3Print application.

Follow the next steps to create linear curves:

- make sure the InkZoneBox is switch on
- push Select Press

1: R700-5	NEW	<b>Info</b>
2: SM74-4		Press Name SM74-4
3: [Empty]	EDIT	Number of Units 4
4: [Empty]	DELETE	Plate Size 745 x 605
5: [Empty]	OK	Zones x Width 23 x 32.5
6: [Empty]	ESC	Interface Job card(CP3)
		Source dir D:\2\

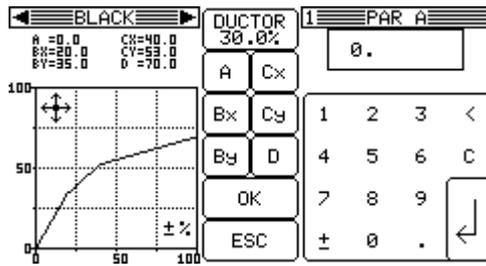
- select the correct press
- click on Edit

1: R700-5		<b>Password</b>
2: SM74-4		123
3: [Empty]		1 2 3 <
4: [Empty]		4 5 6 C
5: [Empty]		7 8 9 ↵
6: [Empty]	ESC	± 0 . ←

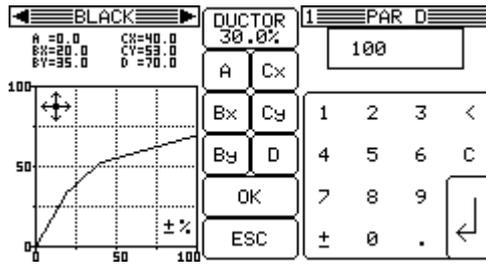
- type in the code "123" followed by Enter

<b>Curve Manager</b>				
1 Paper1	2 Paper2	3 Paper3		
Edit name	Edit name	Edit name		
1->2	2->1	3->1		
1->3	2->3	3->2		
Edit curve	Edit curve	Edit curve	OK	ESC

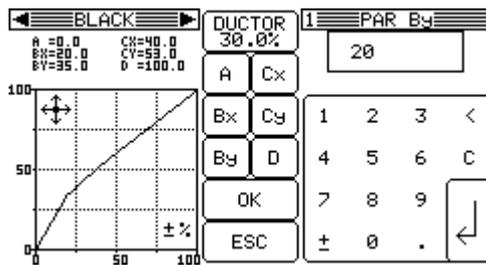
- click on Edit curve (left bottom corner – 1st column)



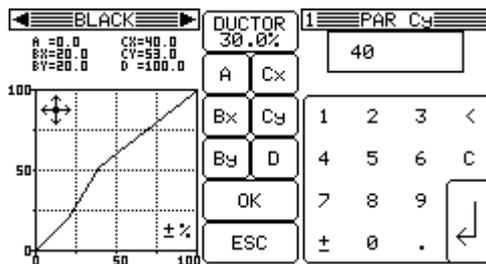
- click on D and type 100 Enter



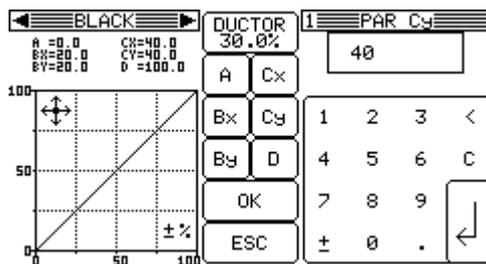
- click on By and type 20 Enter



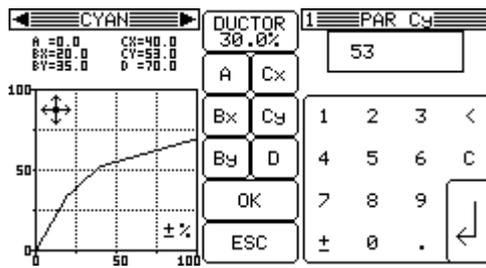
- click on Cy and type 40 Enter



- the curve for Black is now linear



- click on the black arrow just right of Black (left upper corner)



- repeat the procedure starting from point how to change the value D
- if Cyan is ready push again the small black arrow to change Magenta, Yellow and Spotcolor

## Addendum A:

### **TCP/IP Connection**

This part will describe the configuration of the InkZoneBox when you would like to connect the InkZoneBox via TCP/IP.

Probably in a short time all of the InkZoneBoxes will be supplied with the correct „autoexec.bat“ and Config.sys“ files which we need for the TCP/IP connection. From that moment onwards we will use the TCP/IP connection as the standard.

It is necessary to connect to the InkZoneBox a keyboard and an external monitor during installation. The InkZone Box is connected to the intranet with a normal ethernet cable (no crossover).

### Setup of parameters:

Information from **Net Administrator** or find this info on PC:

IP address: 192 168 0 150  
IP Subnet Mask: 255 255 255 0

or

IP address: 192 168 0 150  
IP Subnet Mask: 255 255 0 0

For InkZone Box we could use for example:

IP address: 192 168 0 200                      200 is number of device Box.  
IP Subnet Mask: 255 255 255 0

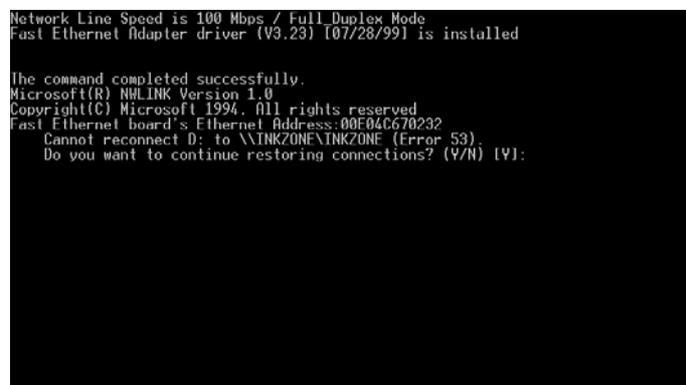
### Installation:

1)

Connect **Keyboard and External monitor**

Connect **InkZone Box** thru cable to the intranet

Swith ON the **InkZoneBox**



```
Network Line Speed is 100 Mbps / Full Duplex Mode
Fast Ethernet Adapter driver (V3.23) [07/28/99] is installed

The command completed successfully.
Microsoft(R) NHLINK Version 1.0
Copyright(C) Microsoft 1994. All rights reserved
Fast Ethernet board's Ethernet Address: 00F04C670232
Cannot reconnect D: to \\INKZONE\INKZONE (Error 53).
Do you want to continue restoring connections? (Y/N) [Y]:
```

2. Press <Enter>

```
Network Line Speed is 100 Mbps / Full Duplex Mode
Fast Ethernet Adapter driver (V3.23) [07/28/99] is installed

The command completed successfully.
Microsoft(R) NTLINK Version 1.0
Copyright(C) Microsoft 1994. All rights reserved
Fast Ethernet board's Ethernet Address:00F04C670232
Cannot reconnect D: to \\INKZONE\INKZONE (Error 53).
Do you want to continue restoring connections? (Y/N) [Y]:
Do you wish to continue connecting D: to \\INKZONE\INKZONE
in future logon attempts? (Y/N) [Y]:
```

- 3. Press <Enter>
InkZoneBox will startup but there is – “Network Connection Error”
- 4. Press <F10> to break the batch program

```
C:\DIPS>
```

On the monitor you will see “C:\DIPS>”

- 5. Run the setup procedure by typing: setup <Enter> (thus C:\DIPS>setup)

```
Setup for Microsoft Network Client v3.0 for MS-DOS

Names:
  Your User Name is DIL

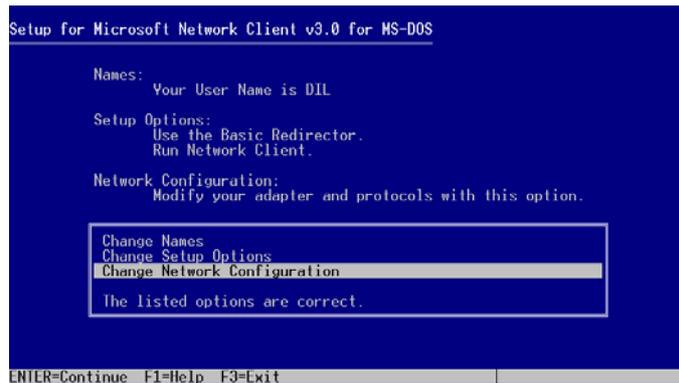
Setup Options:
  Use the Basic Redirector.
  Run Network Client.

Network Configuration:
  Modify your adapter and protocols with this option.

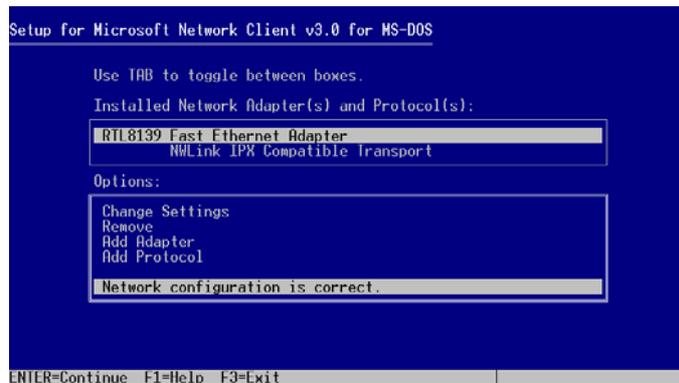
Change Names
Change Setup Options
Change Network Configuration
The listed options are correct.

ENTER=Continue F1=Help F3=Exit
```

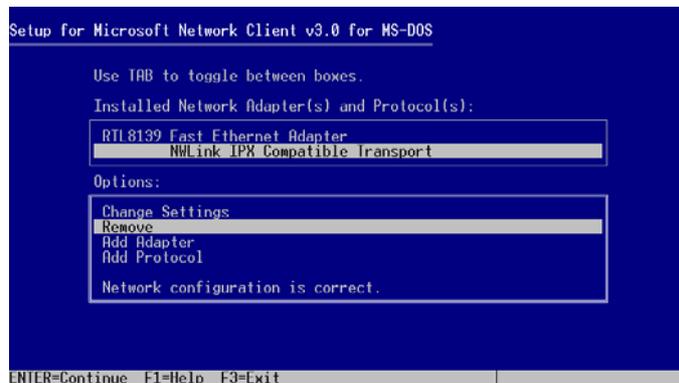
- 6. Use Arrow for selection **Cange Network Configuration**
the IPX / SPX protocol is loaded, we have to change that into the TCP/IP protocol



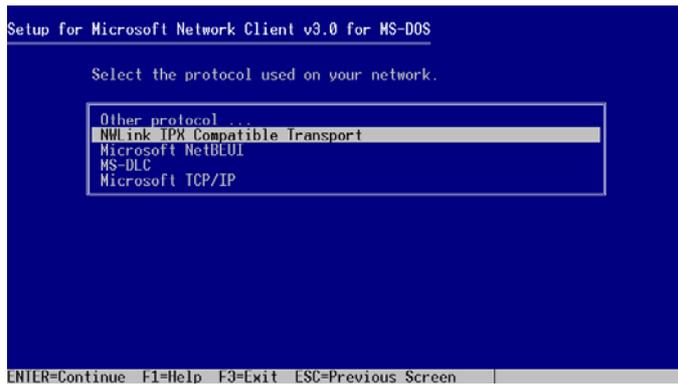
7. Press <Enter>



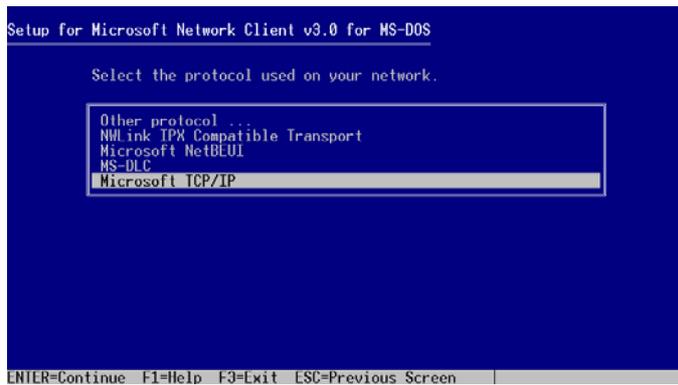
8. use TAB to switch to upper window  
selection protocol with the help of the arrow keys  
Use TAB to switch back to the lower windows  
Use the arrow key to selection **Remove**



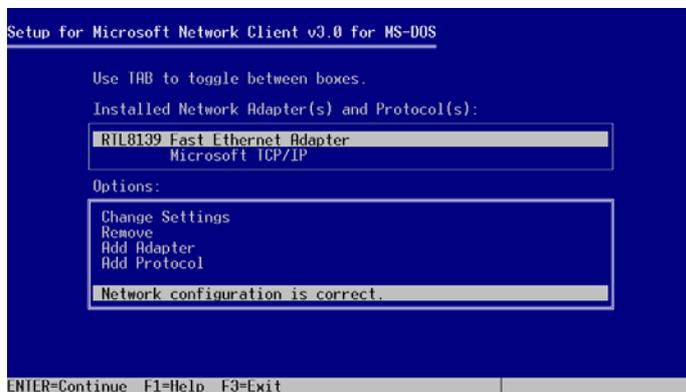
9. Press <Enter> - Remove



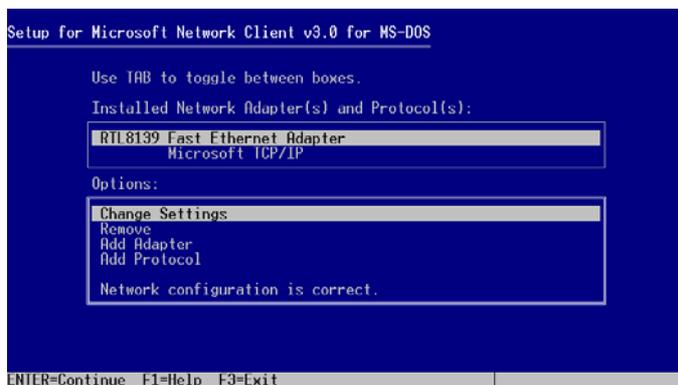
10. Use arrow keys to select protocol **Microsoft TCP/IP**



11. Press <Enter>



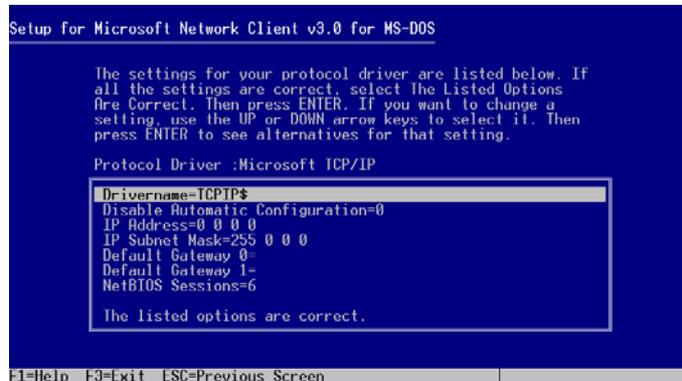
12. Use arrow keys to select **Change Setting**



13. Use TAB to switch to Upper window  
use arrow keys to select **Microsoft TCP/IP**.  
Then press <Enter>

(Screenshot will follow later!)

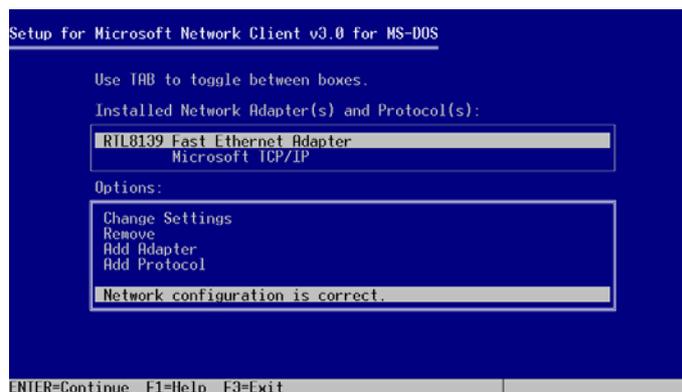
14. Type in the IP-address and Mask of the InkZoneBox



15. Use arrow keys and Enter to change lines 2, 3, 4, like in the screenshot



16. Press <Enter>



17. Press <Enter>

```

Setup for Microsoft Network Client v3.0 for MS-DOS

Names:
  Your User Name is DIL

Setup Options:
  Use the Basic Redirector.
  Run Network Client.

Network Configuration:
  Modify your adapter and protocols with this option.

Change Names
Change Setup Options
Change Network Configuration
The listed options are correct.

ENTER=Continue F1=Help F3=Exit

```

18. Press <Enter>

```

Setup for Microsoft Network Client v3.0 for MS-DOS

Please wait.
Setup is configuring your network drivers.

WORKING...

```

```

Setup for Microsoft Network Client v3.0 for MS-DOS

Network Client is now installed on your computer.

Setup detected multiple configurations in your CONFIG.SYS
and AUTOEXEC.BAT files. The directory where you installed
Network Client contains CONFIG.SYS and AUTOEXEC.BAT
files containing settings that must be added to your
CONFIG.SYS and AUTOEXEC.BAT files, located in your
root directory.

You must restart your computer before you can use Network
Client.

* To quit Setup and change your CONFIG.SYS and AUTOEXEC.BAT
files, press F3.

* Once your files are changed, remove all floppy disks from
your floppy disk drives, and then press CTRL+ALT+DEL to
restart your computer.

F1=Help F3=Exit Installation Complete

```

18. Press <Enter>

19. The InkZoneBox will restart

After start up there are two similar screens as at the first startup

Press <Enter> and again <Enter>

the InkZoneBox will start but again with **“Network Connection Error“**

Note: Either the InkZone Box starts without Enters, it is necessary to continue the same way

20. Press <F10> – to Break the Control Program of the InkZoneBox

21. Type the following command

NET USE D: \_\ComputerName\ShareDirectory <Enter>

Note:

D:\_\ \ .... „\_ „is one space)

Example: net use d: [\\CIP3Print\inkzone](#) <Enter>

You should get a message: The command completely successfully

22. Reset the InkZoneBox by switching it of and on

23. Installation is finished

**Few last notes:**

- the above description is for the InkZoneBox connected via normal ethernet cable and thus connection via a hub or switch
- if you would like to connect the InkZoenBox via an additional ethernet card to the CIP3Print PC you still can do that. Take the following notes in considiration:
  - o put a second ethernet card in the PC
  - o make sure the TCP/IP protocol is loaded
  - o connect this ethernet card with the InkZoneBox with a cross-over cable
  - o make sure you will have the correct TCP/IP + mask numbers to configure the InkZoneBox (same way of configuration as described above)
  - o follow the configuration from 21) to the end

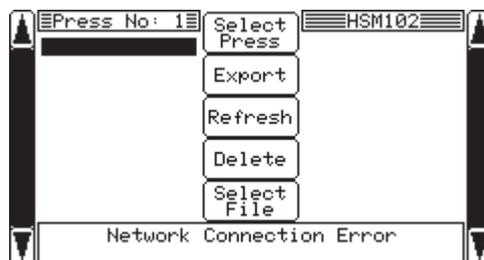
## InkZoneBox instructions: *New Press.*



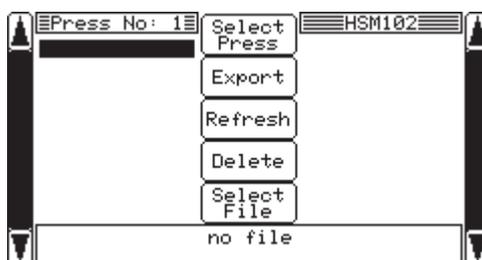
InkZoneBox start.

Initial screen information.

Autotest of the System.



OR



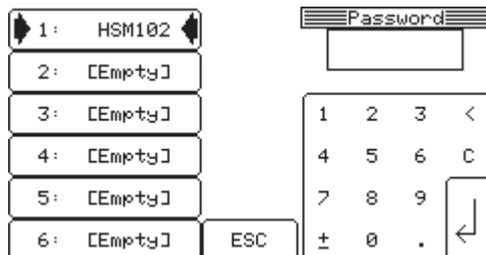
Main menu



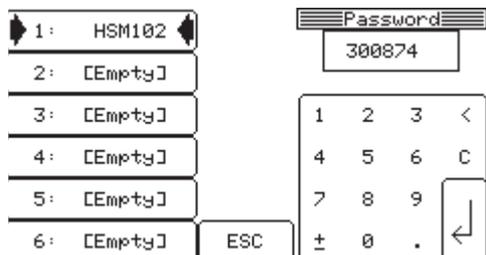
Click on select Press.



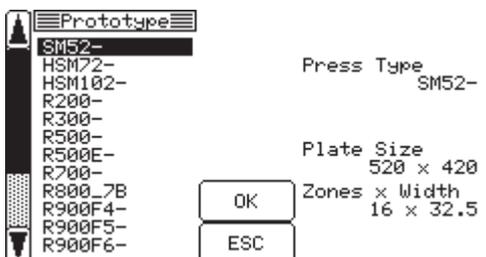
Click on New.



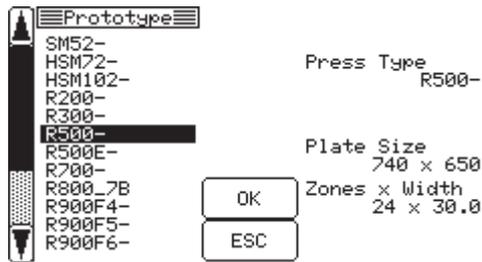
Type in Password 300874.



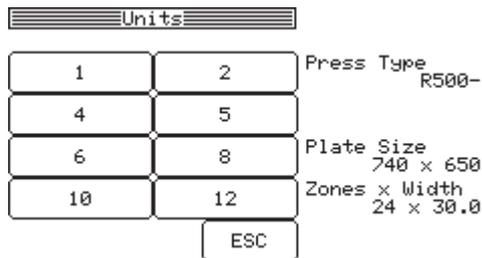
Press ↵



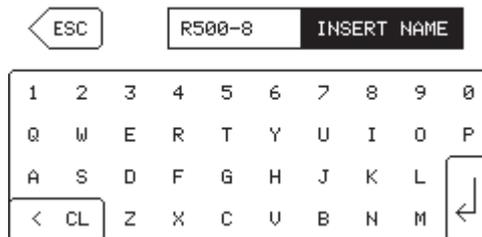
Select the press.  
Push the arrow in the left bottom corner.  
For example R500 (Roland).



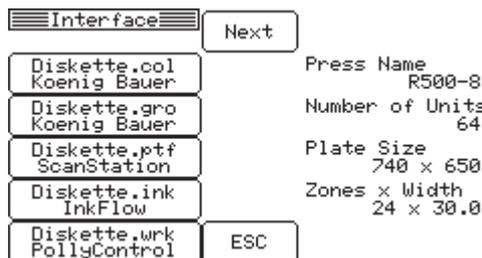
Click on OK.



Select the amount of colors for example 8.



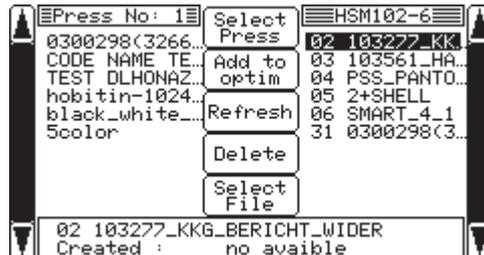
Type name (add 8).  
Click on ↵.



Select one of the correct interface for Roland.  
Click next.

## InkZoneBox instructions: *Delete jobs from Jobcard.*

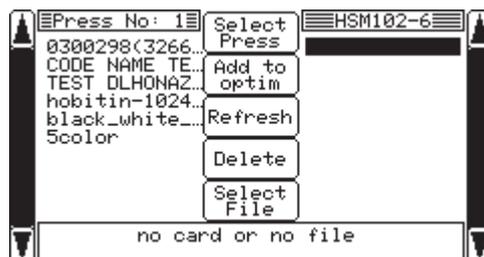
Click on the right hand side of the touchscreen.



Click for 2 seconds on Delete.



Click on Yes.



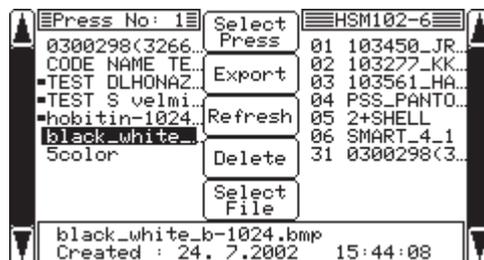
Click on the left hand side of the touchscreen.



## InkZoneBox instructions: *Delete job.*



Scroll to the file you would like to delete and click on it.  
Select the file, a black dot will appear in front of the selected job name.



Click on delete.



Click on Yes.



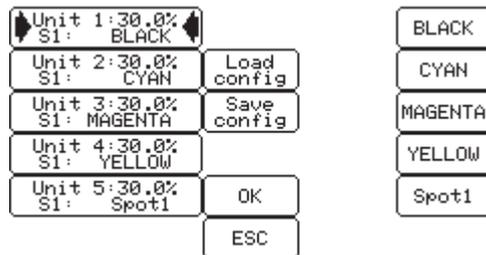
Click on Yes.

## InkZoneBox instructions: *Export File to jobcard.*

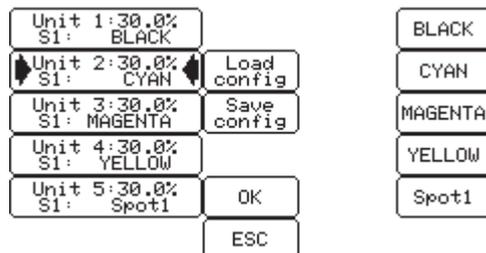


Main Screen.

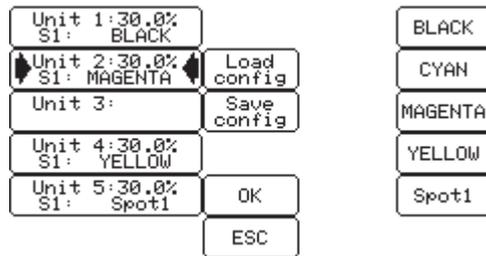
Click on Export.



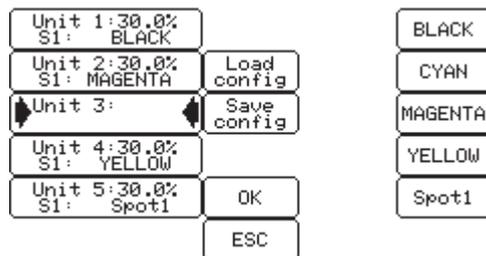
Change order of colors for example:  
B, C, M, Y, spot 1 into  
B, M, Y, C, spot 1.  
Click on Unit 2- Cyan.



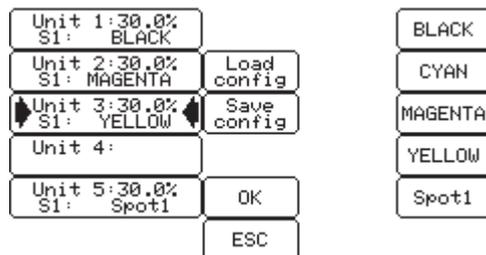
Click on Magenta at the right hand of  
the screen.



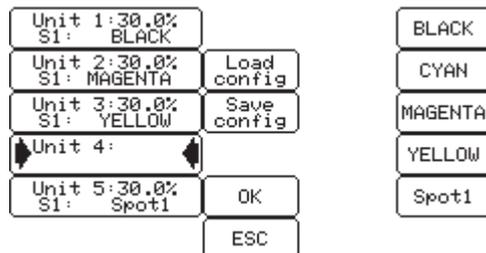
Click on Unit 3.



Click on Yellow at the right side of the screen.



Click on Unit 4.



Click on Cyan at the right side of the screen.

Unit 1:30.0%	S1: BLACK		BLACK
Unit 2:30.0%	S1: MAGENTA	Load config	CYAN
Unit 3:30.0%	S1: YELLOW	Save config	MAGENTA
Unit 4:30.0%	S1: CYAN		YELLOW
Unit 5:30.0%	S1: Spot1	OK	Spot1
		ESC	

Click on Save config.  
Click on OK.

1 [Empty]	JOBS 1-12	2 [Empty]
3 [Empty]	JOBS 13-24	4 [Empty]
5 [Empty]	JOBS 25-36	6 [Empty]
7 [Empty]	JOBS 37-48	8 [Empty]
9 [Empty]	JOBS 49-50	10 [Empty]
11 [Empty]	ESC	12 [Empty]

Click on 1 [Empty] to save the job to the jobcard.

After writing the job to the jobcard it will automatically switch to the main screen.

## InkZoneBox instructions: *Press Linearization- procedure A*



Main Screen

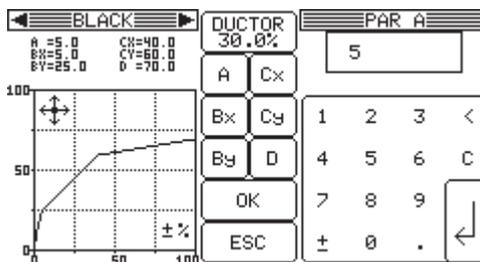
Press Select Press.



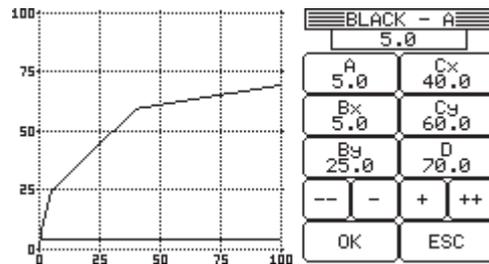
Click on Edit.



Type password 123.  
Press ↵

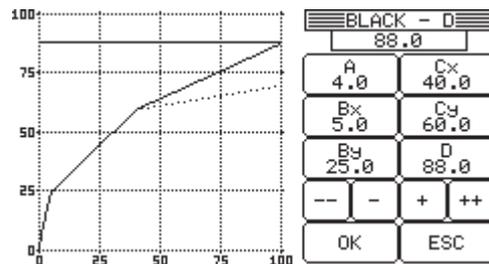


Click on  in the left corner of the screen.

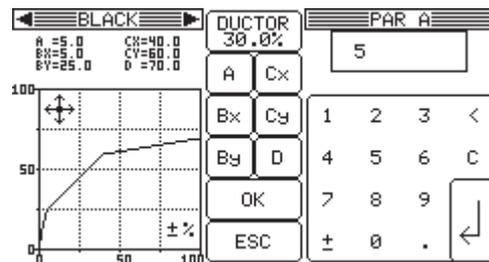


Click on D (70).

A horizontal line will appear. Click on it if you would like to raise the maximum amount.



Click on OK if you would like to close.



Click again on OK.



Main screen.

## InkZoneBox instructions: *Press Linearization-procedure B*



Main Screen

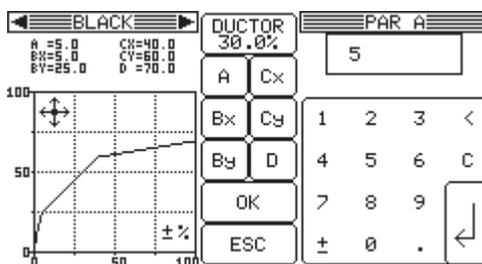
Press Select Press.



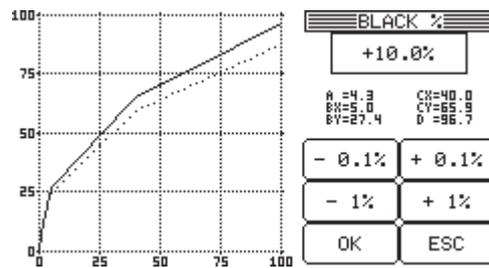
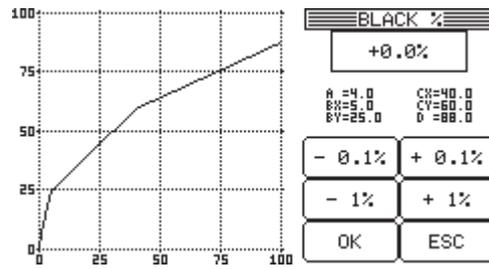
Click on Edit.



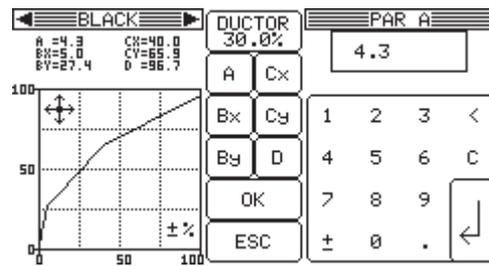
Type password 123.  
Press ↵



Click on  $\pm\%$  in the right hand corner of the curve.



Click OK if you would like to close.



Click again on OK.



Main screen.

# Instructions Manual

