Short Form Uses / Install Guide to BlackMagic on NT and Linux Systems

BLACKMAGIC-SERVER V2.3.01

INDEX

Serendipity Software Pty Ltd Ground Floor 67 Fitzroy Street, Surry Hills, Sydney NSW Australia
ACN 003 862 119 Telephone: +61 2 9 332 1788 Fax: +61 2 9 332 1766
World wide web: http://www.serendipity-software.com.au

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Setting up BlackMagic after the software is loaded.
The following information provided a short form users guide to after the software and dongle are successfully loaded. Please refer to the manual in PDF located on the BlackMagic CD for more detailed information.

1.
System Start UP
Start the **BlackMagic Server** first.
Wait till a message says: Initialisation complete
Start the **BlackMagic Client** second
Select a Rip Monitor
Select a Queue Manage
Select the Thumbnail
Position the QueueManager (top) right
Position the Rip Monitor below the Queue Manager
Stretch and align both Window to look equally balanced
Position the Thumbnail bottom left
Select Utilities (save Desktop)

Activating the Java Client on Eg: Macintosh
Load the BlackMagic CD into a Macintosh
Select Java Client / Macintosh
Extract to the Desktop
Make sure TCP/IP is activated in the Macintosh
Open the Java Client on the Macintosh
Select: Utilities / Server connection
Enter the TCP/IL address of the BlackMagic Server
Wait until the Java Client to load
Select: Rip Monitor, QueueManager & Thumbnail
Utilities: Save Desk top

2.
Configure System Tab
Select ControlPanel from the Java client
Select the **System tab** and select: Reference LAB
Select the Western or Japanese
Select System Units: eg: CM, MM, Inches etc
Select System Special: eg: Reference LAB or a saved SwatchEditor Library
<save>
Note: When special / spot colour names appear in the ripped file job names,
The system first refers to the SwatchColour Library that is save in the system setup.

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If the special/ spot colour is not contained, then AutoProofing with special colours will not work. The Virtual Press is then used to allocate the desired colour

3.
Configure the Destination
Project: New
Name: eg: EPSON 7000
Select TCP/IP eg: if your printing to a printer with a network connection
Enter the TCP/IP address
Enter the Port Number: eg: 9100
<save>

4.
Configure the Printer:
Project: New
Name: eg: EPSON 7000
Select the direct driver eg: EPSON 7000 / 9000
Select the name of the Destination just created in step 2.eg: EPSON 7000
Make the printer active
Set the Autoclean bar to eg: 10
<save>

5.
Configure the Pagesetup
Project: New
Name: EPSON 7000
Select the printer just created in step 3. Eg: EPSON 7000
Select the printer resolution: eg: 720 dpi x 720 dpi for the EPSON
Select Colour Space: CYMK or CMYK + Lc + Lm
Select the colour management eg: select LUT / Epson (This is good starting point)
Note: LUT's only work with CMYK.
Select **Stochastic** in the screening section
Select De-Screening setting: **RDT** or **Smooth 1.** or **Smooth 2**. mode eg: if your proofing HR screened bit-maps
<save>
Note 1: Anti Alaising and Resampling settings are only used when proofing from Un-screened rips eg: Scitex Brisque, Rampage, Delta Lists, PCC (PSPI)
DO NOT HAVE ANTI-ALAISING "ON" WHEN PROOFING HIGH RESOLUTION SCREENED BIT-MAPS, OTHERWISE PROCESSING TIMES BECOME EXTENDED
Note 2: Anti-alaising is not required when proofing to InkJet proofers. Only use this when proofing to eg: CT based proofing devices to improve text output quality.
Note 3: When proofing CT / LW formats: eg: Scitex Brisque, Rampage (CTR), PCC (PSPI) Delta List, select Resampling: BiLinear or Nearest neighbour

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Note: 4 When directly (without SuperCell halftone screening) proofing CT/ LW ripped files to CT based proofing devices, use Anti-Alaising eg: 2 x 2

Note 6. When proofing to the Fuji PictroProof (PictroMatch NT) Dupont Digital Cromalin / WaterProof , set up the following:

Destination:
Project: New
Name: Fuji PictroProof or Digital Cromalin or Waterproof
Type: FTP
User Name: Fuji PictroProof or Dupont Digital Cromalin / WaterProof
Pass Word: of the Dupont Digital Cromalin
TCP/IP: of the Dupont Digital Cromalin
Path: See operators manual
<save.

Printer Type:
Project: New
Name: Fuji PictroProof or Digital Cromalin
Printer Type: Tiff 6.0 (for Fuji PictroMatch Mac based, select Scitex Handshake)
Link the Destination (Fuji PictroProof or Digital Cromalin / WaterProof)
<save>

Pagesetup:
Project: New
Name: Fuji PictroProof or Digital Cromalin / WaterProof
Link the Printer created for Tiff 6.0 (Fuji PictroProof or Digital Cromalin / Waterproof)
Customise: Select LZW compression
Colour Space: CMYK
Select: All Colour Management OFF (none) in everything and ICC ticked **OFF**
Select Resolution 304.8 for the Digital Cromalin or set 400 dpi for the Fuji PictroProof
<save>

6.

Configure the Rip
Project: New
Name:
Select the input filter: eg: Harlequin Scriptworks
Enter the path: eg D:/PageBuffers/ ……/……..
Enter (1) min for polling
Load the **USE AGENT** software located on BlackMagic CD onto the rip that is being polled.
Select: **USE AGENT**
Select poll
Select Test (if the is a message coming back to you, then you have put the wrong path in)

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(there must be no message come back when you select test. Once this is ok
<save>
Close off the ControlPanel
Note: When proofing Scitex Brisque Impose files, select the customise icon and active or de-activate the TRIM Marks directory

Proofing Ripped Files from CD
ControlPanel / Rip Configuration
Project: New
Name:
Select: eg: Harlequin ScriptWorks
Path: D:/ (D being the CD ROM)
Host ID / TCPIP: localhost
Click: Poll
Test: Make sure there is no message coming back to you. if there is no message coming back after you press test, then the file will be read by BlackMagic.)
Polling set to eg: I min
<save>
Close off ControPanel

Select the RipMonitor: press Poll 3 times (only the first time, then wait for 30 to 60 sec)

7.
Testing the Printer Connection
In the QueueManager select project test prints / Quick Cal / submit / and go

8.
Checking Calibration (profiling the printer)
When Quick Cal is output, the 3 colour grey must be neutral, if it is not, then select Gradation from the Java client and make changes to form a new LUT
<save>
Select the pagesetup and select the new LUT correction curve.
Repeat the above until the gray scale is neutral
Note 1: The product specification on the www.serendipity-software.com.au web-site provides further information on gradation settings and ReplaceColour sets.
Note 2: The ICC system works well. It is possible to add on an LUT correction curve on top of the ICC profile to fine tune the output.
When using ICC make sure the ICC box is ticked, then select the ICC profile for:
A. Printer eg: EPSON CMYK +Lc +Lm with the low Blk,
B. Match profiles eg: Fuji ColourArt
Note 3: When calibrating the proofer to produce the best possible halftone screening reproduction from either HR screened bit-maps or when SuperCell halftone

screening is being used, first try using the RDT (de-screening mode) If the there is any patterning, then use either RDT Smooth 1 or RDT Smooth 2. Please not that a calibration LUT may be needed to align the output, as there is a slight difference between RDT and Smooth 1 and Smooth 2.

9.

Proofing Ripped that are displayed in the RipMonitor

Go to the RipMonitor and press poll 3 times then wait. The files will appear in approx 30 to 60 seconds.
Select the file in the RipMoitor and select submit
Select the pagesetup and go

Note: Watch the QueueManager for: Spool, Image and Print functions.

If the plates in the rip monitor are displayed as single plates, then select the Virtual Press, then drag each plate in and then submit. Make sure each plate is allocated to CMYK.
Note 1: Do not leave CMYK plates as Specials, always attach each CMYK plate to the appropriate CMYK colour in the Virtual Press open window

Note 2: If a plate has to be assigned with a special / spot colour, then drag the plate in the Virtual Press to the bottom (S1), then double click and select a reference colour. New Reference colours can be created in the Swatch Editor.

10.

Proofing Images, PostScript Files and PDF files

Select a pagesetup and tick Publish As in both Drop Folders and printer for both Macintosh and Windows
<save>
Note: This allows Tiff 6.0 images / Scitex CT Images, PostScript Files and PDF (Acrobat 4.0) files to be processed. The pagesetups that Publish As is selected within, will then be available on the Macintosh or Windows platform. PostScript files can be processed in either **Composite** or **Separated** mode. We PostScript Files are processed in the **Separated** mode, with files that contain trapping eg: imbedded comments from Quark, will then be processed and seen on the final proof. PostScript files that have Special / Spot colours will be processed if the special / spot colour name and appropriate CMYK vales for that colour are listed in the SwatchEditor library, that is saved under the **System tab**

11.

Printing form Macintosh (Bureau only) BlackMagic Pro / BlackMagic Bureau

Load the BlackMagic CD in the Macintosh
Select Drivers / Macintosh and insert the PPD into the printer descriptions folder
The MegaRIP PPD will then be displayed.
Revert to the manual for further information on this section

Note: When printing PostScript files to BlackMagic that are destined for SuperCell halftone screening, print to file at 600 dpi to 900 dpi

12.

Creating SuperCell Halftone Screening

There are two methods of creating SuperCell screening. The **direct** method allows incoming formats eg: Scitex Brisque, Delta List, Rampage, PCC (PSPI) PS file (Composite and Separated and PDF Acrobat 4.0 files to be directly screened by activating SuperCell halftone screening in the screening section of the pagesetup. The screen ruling and quality of the output is dependent on the resolution of the proofer. Inkjet printer of 600 dpi to 720 dpi will be limited to 75# to approx 90#.

The second method of applying SuperCell Halftone screening to CT / LW formats, PS files and PDF (Acrobat 4.0) is known as the **indirect** method. The **indirect** method of screening can be extended. The visual appearance is close to 150# when proofing on inkjet proofer that support 720 dpi x 720 dpi with CMYK +Lc + Lm EG: EPSON 7000, 7500, 9500
Note: the quality of screening is dependent on the paper type used.

Note: It's not possible to use **direct** method to produce SuperCell halftone screening to the Fuji PictroProof, Screening cannot be {directly applied to devices that are bi-level ie: CT based proofing devices eg: Fuji PictroProof

"Direct" method of creating SuperCell Halftone Screening
PAGESETUP:
Name: SuperCell EPSON 7000 95#
Select the Printer Linkage: EPSON 7000
Colour Space: CMYK +Lc + Lm
Colour Management: Select ICC profiles
Resolution: 720 dpi x 720 dpi
Anti-alaising: none
Select Screening Type: **{SuperCell} Halftone Screening**
Select the Default setting
Adjust the Screen Ruling: Change the default to the following:
CYAN: # 90# **MAGENTA:** #90 **YELLOW:** # 100 **BLACK:** 90#
Screen Angles: Change the default angles to the following:
CYAN: 22.5 **MAGENTA:** 82.5 **YELLOW:** 97.5 **BLACK:** 52.5
Dot Shape: eg: ROUND
<save>

"**In-Direct" method of creating SuperCell Halftone Screening**
With this method you first create a CCITT G4 screened bit-maps from the incoming data. eg: Scitex Brisque, Delta List, Rampage, PCC (PSPI) PS file (Composite and Separated and PDF Acrobat 4.0 files. With AutoProofing "ON" the bit-maps can then automatically

processed using an RDT Pagesetup to eg: an EPSON printer or the Fuji PictroProof.

For best results when proofing with the In-Direct SuperCell Halftone screening method, use inkjet printers that support 720 dpi x 720 dpi with CMYK +Lc + Lm. Always use ICC profiles when using CMYK + Lc + Lm. A selection of ICC profiles is supplied as standard.

Setup procedures for the Indirect method
Create the following steps

DESTINATION:
Name: eg SuperCell
Path: eg: C:/Temp
Type: Local File
<save>

PRINTER:
Name: SuperCell
Printer Type: Select the **"Single Bit" (Separated)**
Select Destination: SuperCell
Autoclean: set to eg: (5)
<save>

Note: CCITT G4 files do take up space quickly on hard disc, so it's best to keen the number of files to min in the system

PAGESETUP:
Name: SuperCell 1800dpi 120#
Select the Printer Linkage: SuperCell
Select Customise: Select type of compression {G4}
Colour Space: CMYK
Colour Management: None in all area's
Note: only add an LUT correction curve when generating CCITT G4 files when you want to simulate a dot gain for specific printing or press conditions. This can be useful for proofing eg: Flexo type applications where the dot gain characteristics are severe in the Highlight to 35% tonal area's.
Anti-alaising: none
Select Screening Type: **{SuperCell} Halftone Screening**
Screen Ruling: Change the default to the following:
CYAN: #120 **MAGENTA:** #120 **YELLOW:** #130 **BLACK:** #120#
Screen Angles: Change the default angles to the following:
CYAN: 22.5 **MAGENTA:** 82.5 **YELLOW:** 97.5 **BLACK:** 52.5
Resolution: 1800dpi

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Dot Shape: eg: ROUND
<save>
Note 1: Select **CYAN:** #110 **MAGENTA:** #110 **YELLOW:** #120 **BLACK:** #110# for output on say a HP 2000, as at 600 dpi the screen ruling cannot be extended as much as printers with a 720 dpi x 720 dpi (CMYK +Lc + Lm) printer capability.
Note 2: As a starting point select **CYAN:** #125 **MAGENTA:** #125 **YELLOW:** #135 **BLACK:** #125 for output on the Fuji PictroProof

RIP CONFIG:
Name: SuperCell 1800dpi 120#
Select the Input Filter: **Tiff "Generic**"
Hostname I/P: Localhost
Path: C:/ Temp
Select Poll: ON
Select: Test (correct path etc if necessary)
Turn on AutoProofing (select pagesetup eg: EPSON 7000 or eg: PictroProof)
Select the number of copies eg: 1
<save>
Close off the ControlPanel

TESTING THE ABOVE SETUP:
Once the above is set-up, send test print Quick Cal to the SuperCell Pagesetup 1800 dpi 120#. The Quick Cal will then be screened to a HR screened **CCITT G4** (single bit tiff) eg: @1800 dpi - #120 and then it will be sent to a directory C:/Temp.

BlackMagic then automatically recognized the separated CCIT G4 file using the AutoProofing EPSON 7000 Pagesetup when linked to the SuperCell Rip configuration. The CCITT G4 files are then processed with the RDT or Smooth 1 or Smooth 2 technology to produce a print file with DOTS at 720 dpi. The file automatically is then sent to the EPSON 7000 or the Fuji PictroProof printer for output.

If you see some moiré or patterning, when using the **RDT mode**, re-process the file with **Smooth 1** or **Smooth 2**. , selected and <save> the new setting in the Pagesetup
Due to the way the Epson series printers work, you will find de-screening setting of **Smooth 1 or Smooth 2** works best. When proofing SuperCell bit-maps to the Fuji PictroProof use the RDT setting to reproduce the sharpest possible dot structure and rosette pattern.

Note 1: Always set the correct paper type in the EPSON customise section.
This is because the print head either moves closer or further away from the paper and can effect the quality of the halftone screening.
Note 2: Ensure that the SuperCell Printer (Auto Purge) is set to 1, otherwise you have to many screened bit-maps sitting in the C:/Temp directory. Your system could become

slow.

Note 4: Please ensure that Diskeeper is installed on all NT BlackMagic solutions. Diskeeper is a De-Fragmenting software. www.diskeeper.com

Note 5: SuperCell halftone screening can be applied to Rampage (CTR), Scitex Brisque, Delta Lists. PostScript files (**Composite** and **Separated**) and Acrobat 4.0 files can also be processed when using BlackMagic Pro (including the Bureau option)

Note 6: SuperCell halftone screening can also be applied to jobs that have special / spot colours. The spot / specials colours are first screened via selecting the spot colour in the Virtual Press and allocating with screen angles. Use the CM or K screening angles for Special / spot colours as a general rule. Once the two sets of bit-maps are created the Virtual Press is then used to create a final file with CMYK + the special / spot colours. The special / spot plates are then assigned with The correct colour via a created colour using the Swatch Editor.
Autoproofing must be turned OFF when proofing SuperCell CMYK + Special / Spot colours

Note 7: If you take the screening up to 133# for CMK and 143# for the Yellow, the visual screening appearance is close to approx 150#
At the time of writing this document the EPSON 7000, 7500 & 9500 printers have showed screening capabilities of close to 150#. The Fuji PictroProof, also provides screening capabilities of close to 150#.

Note 8: When you require a better quality dot with SuperCell halftone screening, try processing the incoming file @ 2400 dpi in the SuperCell Pagesetup.

Note 9: Make sure you have plenty of Disc space, as SuperCell CCITT G4 files can fill up a disc quickly. Be sure to check the **Customise** section in the Pagesetup and make sure **CCITT G4** is selected, otherwise the files size will be very large. If you create a duplicate (save as) Pagesetup from a previously used SuperCell pagesetup, ensure you re-check the **Customise** section as the **CCIT G4** settings are not carried over. Set to **CCITT G4** and save.

Note 10: When using **indirect** SuperCell screening use the recommended hardware. Ie: min Dual Pentium 750 MHz (133 MHz BUS) + 256 Mbs of RAM

Note 11. Sometimes there can be a delay before the AutoProofing will pickup the **CCITT G4** files and process them. Be patient. If you need the files to be polled faster, Then load the **USE AGENT** software onto the hardware where the **CCCITT G4** files reside and select **USE AGENT** and Fast Polling in the ControlPanel / Rip / Config and <save**>**
Select **Poll** 3 times again in the RipMonitor and wait for 30 sec to 1 min

Note 12. Finer SuperCell halftone screen rulings proofs can be created (up to approx 140#) by increasing the screening ruling (LPI) in the SuperCell screening section of the Pagesetup. As a guide always have the Yellow LPI setting (10) units above the Cyan, Magenta and Yellow LPI settings.

Note 13: As a general rule set the SuperCell halftone screening resolution setting 1800 dpi for up to 125#. Set the resolution to 2400 dpi for higher screening ruling output. Never have Anti-Alaising on when creating SuperCell halftone screening

Note 14: SuperCell 120# files processed and printed for 600 dpi printer, can possibly contain a grain effect. For smoother results, create SuperCell at 110 # to 115#

Note 15: Optimising screening output, can be achieved by adjusting the screening ruling, and screen angles for each colour with in the SuperCell pagesetup.

Note 16: Printers that support 720 dpi with CMYK + Lc + Lm have better highlight rendition capabilities (reproduce dots better) when reproducing HR bit-maps.

For further information on SuperCell halftone Screening, please consult the user manual located on the BlackMagic CD in PDF format or your local BlackMagic dealer.

13.

Nesting (Scatter Proof)

Step 1.

Setting up a Nesting Queue:
ControlPanel.
Use the current **Printer** setting.
Project: save as
Name: EPSON 700 NESTING
Select: Nesting
Select: Gap (small or Large)
Set paper Width
Set max height
Set say 20 mins
Coverage: eg: default 80%
Set Media Width: eg: 914 mm for HP 20000
Set Max Height: eg 750mm
Set Max Wait Time: eg: 20 mins
<save>
>

Step 2.

Pagesetup
Use the current **pagesetup** for the EPSON 7000
Project: save as
Name: EPSON 7000 NESTING
Select the Printer: Link the newly created printer: select EPSON 7000 NESTING
<save>

Note: Proof files to the EPSON 7000 NESTING Pagesetup. If you cannot wait the 20 mins, then press **Nest Now** in the QueueManager. The files are then gathered together and then printed. Note: Nested jobs can be seen in the print Gallery.

14.

Electronic Blue Line.

Electronic Blue Lines can be created manually or automatically using the Replacement Editor and the Swatch Editor software. Electronic Blue lines highlight correctly trapped areas by producing a dark thin blue line around trapped areas. Each plate can be individually selected as a special and applied with different percentages of Cyan and Magenta using the Virtual press menu. Alternatively a Pagesetup can be configured to automatically replace the separated plates with pre defined Cyan & Magenta values.

Listed below are the recommended Cyan & Magenta values for producing Blue line proofs.

YELLOW	PLATE 70% Cyan	20% Magenta
MAGENTA	PLATE 80% Cyan	30% Magenta
CYAN	PLATE 90% Cyan	40% Magenta
BLACK	PLATE 60% Cyan	10% Magenta
FIRST SPECIAL	50% Cyan	5% Magenta
SECOND SPECIAL	40% Cyan	0% Magenta

Use a current Pagesetup
Project New: Save as eg: Blue Line NESTING
In the Colour management section select: ReplaceSet: Blue Line
<save>

15.
Outputting PDF / HTML/ JPEG Output
Setup the following:

1. Destination: Name PDF
Path eg: C:/Temp
Type: Local File
<save>

2. Printer: Name: PDF
Select PDF Destination
Select PDF Driver
<save>

3. Pagesetup: Select Project New
Name: PDF
Select the linked Printer eg: PDF
Customise: default zip compression 6 (Accept) …eg: Set (7 to 1) for JPEG
Colour Space: CMYK
Resolution: eg: 150 dpi
Colour Management: all **OFF**
<save>
Note 1: *add a correction LUT curve and ReplaceColour set if required by running a Quick Cal and adjusting*

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output for: Ink Density, Ink Hue ERROR, Gradation and Grey Balance output.

Note 2. *When processing HR screened bit-maps for PDF output use RDT or Smooth 1 or Smooth 2. When processing CT /LW formats eg Scitex Brisque / Delta Lists PCC (PSPI) / Rampage (CTR), select Resampling **Bicubic** and Anti-alaising 2 x 2*

To View and print files after processing, select the created PDF in C:/Temp

16.

De-Imposing (Signature Editor)

The De-Impose function allows fully imposed ripped data from both un-screened and screening rips to been split into sections using the **SignatureEditor**. This allows any page or any combination of pages to be proofed to single, two page or 4 page proofing devices.

The **SignatureEditor** is used to define:

- the overall image size of the ripped data (enter no more than 1 cm bigger than the X & Y final page size.
- X & Y co-ordinance relating to the start of top left hand page
- Page sizes eg: single, double or Customise
- Orientation of pages (Horizontal - Vertical)
- Gutter dimensions (Gap) Horizontal - Vertical
- Proofing sequence "automatic or manual"

BlackMagic first processes the page normally, then splits the pages to the specification assigned within the Signature editor. The PrintGallery will display the complete files along with individual pages.

Procedure

Make a Pagestup for a fast proof to measure some dimensions.
Select: Draw Border
Resolution 300 dpi (HP 2000) / de-screening 300 dpi
De-Screening Setting: FAST
<save>
Run a proof
Note: the proof will come out with a fine line surrounding the entire image
Select: SignatureEditor
Project New:
Name eg: 4UP
<save>

Group Management Section

Select: New
Enter Name: eg Shell Annual Report
Enter Press Sheet Width & Height

Note: *Enter a few mm more than the actual page size and no more than 10 mm bigger than the actual page size, otherwise the system will not de-impose correctly.*

Enter Page size Select the orientation (Portrait or Landscape)
Enter the dimension for the top left X & Y positions (offset distance from the top left)
Enter the amount of columns
Enter the amount of rows
<save>
Click Untitled in Group Management window
Click the area on the layout window where the Gutter is to be located
Enter Select gap distance eg: 10mm (double cut)
<save>
Set pagination: Auto or Manual
<save>
Select the pagestup:
Un-activate the Draw Border
Set the correct resolution and de-screening settings
Select: Autofit / Fit Methods / De-Imposing / Name < > (select the signature name)
<save>
Print the job to the 4 UP pagesetup.

Note 1: when the file has completed the processing, the file will then be de-imposed. The de-imposed files will appear in the QueueManager and can be seen in the Print Gallery.

17.

AutoProofing eg: 2 copies only from a Ripped file to a Nesting Queue

Set the Rip config for AutoProofing
Select the linked autoproofing pagesetup
Select the number of copies eg: 2
<save>
Set the linked **Printer** with max page: 2 in the Nesting Queue.
Set the Coverage to 100% in the Nesting Queue
Set the **Max Width** and **Max Height** setting to cover the combined two pages + the GAP
<save>

Note: The above is ideal for proofing newspaper applications where multiple copies are required.

18.

AutoProofing Multiple copies with a reduction factor

This can be used when multiple copies eg: 10 proofs from the one page are required within the linked pagesetup, select Autofit / fit method / by factor eg: 0.75%

19.

Colour Key (Nesting)

This provides the facility to automatically prints each separation as a single colour
Take an existing Pagesetup and <save as>

Name: Colour Key Nesting
Name: Colour Keys
Select Colour Keys in the Effects section
Save

20.
Progressive Proofs
Use the Virtual Press and clear the desired plate.
Eg: To make a (3) colour proof, clear the Black plate in the Virtual Press / Submit / select Pagesetup / go

21.
Colour Management
Gradation Editor (LUT) Look UP Tables)
The gradation editor provides individual CMYK gradation curves to adjust the calibration output for proofing devices. The controls work in a 2 dimensional manner, affecting both colour and neutrals equally.

- Individual (Max-Min) density Control for each colour
- Points are entered along the gradation curve to provide tonal adjustments.
- Rotating tangents appear after each control point, allowing 90o rotating tangents with bezier curve control.
- Gradation profiles are stored as LUT (Look UP Tables). LUT's maybe downloaded to floppy and retrieved for later use.
- X & Y reference readings can be obtained by using the evaluate icon under the edit tab
- By reducing the LUT curve in the Highlight area's eg: from 1% to 7%, this helps to simulate the effect of burn out produce by the traditional plate making process.

Whenever setting up colour management using LUT linearisation curves and ReplaceColour sets, use the following guidelines.

TOP DENSITY Set the top end density for each colour using the LUT correction curves in the gradation editor

INK HUE ERRORS Mix the Ink HUE errors in the Swatch Editor and load them into the ReplaceColour set

OVERALL GRADATION Adjust the LUT curves for each colour to achieve the correct

Gradation. Eg: When a density of 0.60 density in the CMY channels is achieved in step (11) of the Quick Cal 3 colour scale this provides a good midtone (overall gradation) starting point.

GREY BALANCE Adjust the LUT curves for each colour to achieve and fine tune the grey balance output

BLACK INK OPACITY Adjust the Black ink opacity by reducing the Black component in The ReplaceColour set eg: set 90% This reduces the actual colour of the Black and produce a lighter shade of Black

Note 1: It is not possible to manually set colour management using the above steps for printers that support CMYK + Lc + Lm

Note 2: When evaluating proofs, it's useful to proof jobs initially in the 3 colour mode (CMY) as this helps to focus on the (3) colour balance, where as the Black can often influenced the result and make overall assments more difficult.

For more information on setting up LUT correction curves please contact your local BlackMagic dealer

ICC Colour Management Use the following guidelines when calibration printer using ICC profiles.

1. Manually establish a **LINERISATION** LUT profile for the printer using the above procedure, ensuring the printer is printing approximately 10% higher in the CMYK top end densities. If necessary add an LUT correction curve to reduce the overall gradation, ensuring the grey balance is maintained.

2. Print an IT 8 colour chart or the colour targets form the ICC profile software via BlackMagic using the established LUT Linearisation & correction curve in step 1.

3. Create the ICC **PRINTER** profile, then load into Program files/ blackmagic/lib/icc/ printer

4. Create and load an ICC profile that has been established for the **MATCH**, then load into Program files/ blackmagic/lib/icc/ match

5. Select a Pagesetup and select the colour management tab with ICC ticked. Select the Linearisation LUT, ICC printer profile and ICC Match profile. Then run a Quick Calibration.

6. Fine tune the output for grey balance and gradation using an LUT correction curve by first making a linear (45o), then making the required adjustments. Load the LUT curve into LUT correction section of the colour management window.

Note 1: When proofing to the inkjet printers that use CMYK + Lc + Lm, it is recommended create a low Black generation profile to help reduce the Black spotting / peppering effect produced by the profile.

Note 2: Some Black inks with inkjet proofers are very intense and require the LUT (density setting) to be reduced substantially. This can in some cases produce fine white lines through solid area's. To illuminate this effect, create a ReplaceColour set for the Black eg: 90% to 95% and then increase the LUT density.

22.

ReplaceColours (InkMix) BlackMagic provides the facility to create replacement sets of commonly used colours. Process and Specials / Spot colours may be pre-programmed for automatic replacement during the imaging stage.

Eg 1: When packaging or label jobs being of 4 colours appear as CMYK separated plates ie: Yellow = Red, Magenta = Green, Cyan = Bark Blue and Black = Brown. A Swatch Colour set is first configured in the SwatchEditor and saved, then loaded into the ReplaceColour editor and saved. The ReplaceColour set is recalled into the Pagesetup menu under the Colour Management section.

Eg 2.When ICC profiles are not available, a ReplaceColour Set can be mixed to closely match the HUE errors of process inks. LUT correction curves are then used to fine tune the gradation and grey balance.

Procedure:

Create a set of ReplaceColour Set values.
Project: New:
Name: EPSON 700 Ink Mix
Select New in the open window
Give the colour a name
Enter the values
Save (hit the return button after the last value and again after the last character in the colour name
Repeat for each colour
<Save>
Open the Pagesetup
Select Colour Management / ReplaceColour Set
Select: EPSON 7000 Ink Set
<save>

Eg: ReplaceColour (InkMix) set values for: HP 2000 / 3000 DesignJet

CYAN = 100% Cyan - 7% Magenta
YELLOW = 100% Yellow
MAGENTA = 100% Magenta - 5% Yellow
BLACK = 100% Black - 10% Cyan

Eg: ReplaceColour (InkMix) set values for: EPSON, Roland, MUTOH/ Agfa Sherpa, Canon BJC-8500, HP 5000

CYAN = 100% Cyan – 9% to 12% Magenta
YELLOW = 100% Yellow
MAGENTA = 100% Magenta - 20% Yellow
BLACK = 100% Black

23.

SwatchColour Editor

The Colour SwatchEditor control panel provides the user interface to create and store families of user defined special colours. A colour reference library of colours is supplied as standard. New colour libraries are created by selecting a reference colour and editing to the required CYMK values. Swatch colours are displayed in the editing window showing the colour of each special. BlackMagic's built in Colour Chart when printed provides an ideal reference aid to measure and determine correct dot percentages required to print special colours. Alternatively, swatch colour libraries can be imported. See the web-site for further information

24.

Virtual Press

The Virtual Press window allows individual ripped files and their associated separated plates to be displayed. Special / Spot colours can be assigned from stored SwatchColour library colours. The Virtual Press allows any plate to be allocated with any colour or

re-allocated with a special / spot colour. Alternatively individual plates maybe cleared and new plates added from other files. This is ideal for proofing text or linguistic changes when using a common set of CMY plates and a different Black plates containing the corrections.

Another application for the Virtual Press is when all the separated plates are displayed as individual files. By selecting any plate followed by the Virtual Press a Virtual Press window opens. Select the next plate with (arrow marked plates) then drag the plate into the open window of the Virtual Press to the appropriate colour (CMY or B). If a plate is to be assigned with a special/ spot colour, the plate, double click on each plate and select a colour via the Reference Colour Library.

25.
Proofing Special / Spot Colours
There is no limit to the amount of special / spot colour that can be proofed.
The Virtual Press located in the RipMonitor can be opened allowing individual separated plates from other files, to be merged as one composite file. By using the Reference Colour Library, any plate can be assigned with any colour. CMYK plates may be assigned as special / spot colours if required.

26.
Print Gallery
The Print Gallery shows a thumbnail image of all jobs processed in the selected Printer. Jobs maybe soft proofed by selecting “View” Job may also be re-printed using the “Submit button. Select the number required

27.
SoftProofing
Select the “View” button in the QueueManager or Print Gallery.
Zoom, Scroll, and Rotate functions are provided

28.
Width Height Correction
Example of applications.
1. Setting final Flexo distortion factors
2. Making fine adjustments, so the proof can fit the final film

29.
Double Sided Proofers:
Make (2) **Printers** and (2) **Pagesetups**

Printer No 1

Project New
Name Front Side
Select Printer Type: For a Barco Impress select HP InkJet
Activate the printer
Set the Autoclean to eg: 10
<save>

Pagesetup No 1.
Project New:
Name: Front Side
Select: Centre Horizontal
Select: Rotate to none
Enter a sheet size for eg: HP 2000 (914mm)
<save>

Printer No 2
Project New
Name Back Side
Select Printer Type: For a Barco Impress select HP InkJet
Activate the printer
Select **Autopause** and selected a set a time delay eg: 4 mins. This allows the printer 4 mins to wait for the paper to be change or automatically flipped depending on the type of proofers used.
<save>

Pagesetup No 2.
Project New:
Name: Front Side
Select: Centre Horizontal
Select: Rotate to 180o
Enter a sheet size for eg: HP 2000 (914mm)
<save>

Note 1: Select **Stochastic** or **Stochastic (fast)** in the Screening section of each front a and back pagesetup's.

30.
Brightness Control
Only used for a fast calibration adjustments and is not generally used for Pre Press applications

31.
Autofit:

Rotate Method: None, 90o, 180o 270o
Fit Methods: Fit Width

Fit Height,
Fit Both
Auto Fit
Tiles: Set overlap eg: (5mm)
By Factor: Enlargement 10% reduction to 400% enlargement
De-Imposing: selecting a linked Signature from Signature Editor

32.
Cropping:
Crops excess data from around the image area.

33.
Saving Defaults
It is recommended to save the default setting to either floppy of CD. Always make a spare copy and keep in a safe place. Defaults is saved in:
Eg: C:/program files/BlackMagic/lib/defaults

Serendipity Software Pty Ltd

BlackMagic and MegaRIP is written by Serendipity Software Pty Ltd
ACN 003 862 119
Ground Floor, 67 Fitzroy Street,
Surry Hills. 2010
Sydney. N.S.W. AUSTRALIA
Telephone +612-9332 1788
Facsimile +612-9332 1766
E-Mail sales@serendipity-software.com.au.
World Wide Web http://www.serendipity-software.com.au

Sandstone Software Pty Ltd

The international distributors for BlackMagic and MegaRIP
ACN 079 925 072
International Office
16 Masefield Avenue,
Sandringham 3191
Melbourne Victoria. AUSTRALIA
Telephone +613 9598 6657
Facsimile +613 9533 1291
Mobile +61 419 899 178
E-Mail murphyrw@msn.com.au
World Wide Web Page http://www.Serendipity-Software.com.au/dealers/sandstone.html