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You can read the recommendations in the user guide, the technical guide or the installation guide for EPSON STYLUS 820. You'll find the answers to all your questions on the EPSON STYLUS 820 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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Programming Note

for

EPSON
Stylus Pro XL, Stylus Pro,
Stylus COLOR II, Stylus COLOR IIs,
Stylus 820 & Stylus 1500

Revision: 01
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Manual abstract:

INTRODUCING THE EPSON STYLUS PRO XL, STYLUS PRO, STYLUS COLOR II, STYLUS COLOR IIS STYLUS 820 & STYLUS 1500

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... 18 Revision: 01 3 This Programming notes is intended to used in conjunction with the EPSON ESC/P Reference Manual, November 1994. 1. Introducing the EPSON Stylus Pro XL, Stylus Pro, Stylus COLOR II, Stylus COLOR IIs Stylus 820 & Stylus 1500 This is a brief summary of the new features of EPSON's five newest color inkjet printers and the Stylus 820, which is a COLOR IIs compatible, except it is shipped as a monochrome printer. These Programming Notes apply to the following printers: EPSON Stylus Pro XL EPSON Stylus Pro EPSON Stylus COLOR II EPSON Stylus COLOR IIs, and Stylus 820 (monochrome standard, color optional) EPSON Stylus 1500 (monochrome stand color optional) ard, All six printers add the new "small dot" feature which allows printing with the smaller dot sizes to produce the highest quality in color inkjet printing. The dot size is selectable between "standard" and "small dot". All printers can print on EPSON coated paper, and the new Glossy Paper. The new Glossy Paper provides a near photographic appearance and is recommended for the printer's highest resolution (720dpi) setting.

The Stylus Pro XL & Stylus Pro both provide the highest quality in 720 dpi color printing, even on plain paper. The Stylus Pro is a narrow carriage printer, while the Stylus Pro XL is a wide carriage printer which can support up to A3+ paper size (12.95"x19.02"), in addition to other paper sizes. The Stylus COLOR IIs is the least expensive EPSON color solution. The Stylus 1500 is a color upgradable monochrome printer. Ink Density vs. Table 5 to 9 summarize the limitation of ink duty in the different print modes for the different printers. The amount of ink drop varies when printing with one ink, two inks, or three inks combination. The combination of two ink drops of either C, M, Y, will produce Red, Green or Blue color, known as RGB.

While the combination of three ink drops of C, M, Y, will produce a composite Black. The ink duty to produce RGB & composite black is therefore reduced for each C, M, Y to avoid color saturation. Table 6: Ink Density vs. Print Mode for the Stylus Pro & Stylus Pro XL Resolution Media Type Print mode Resolution, (Dot size) 180 dpi, (Normal Dot) 360 dpi, (Normal Dot) 360 dpi, (Normal Dot) 360 dpi, (Normal Dot) 720 dpi, (Small Dot) 720 dpi, (Small Dot) 720 dpi (Small Dot) Limitation of ink duty* a) C, M, Y or K ink b) R,G,B = two inks a) 100% (255/255) b) 200% (255/255*2) a) 100% (255/255) b) 200% (255/255*2) a) 100% (255/255) b) 200% (255/255*2) a) 100% (255/255) b) 200% (255/255*2) a) 67% (171/255) b) 100% (128/255*2) a) 100% (255/255) b) 130% (166/255*2) a) 75% (191/255) b) 100% (128/255*2) Option** Micro Weave OFF OFF (ON**) ON (OFF) ON ON ON ON High Speed ON (OFF) ON (OFF) ON (OFF) OFF (ON) OFF (ON) OFF (ON) (180 dpi) (360 dpi) Plain Paper Plain Paper Coated Paper - 360 dpi Transparency Film Plain Paper -720 dpi Coated Paper -720 dpi Glossy Paper (720 dpi) Small dot size is selected using "ESC (e" command. * These are recommended values only. You may find that other values are more suitable for your driver or application. ** The parameter within the "()" indicates a user selectable option. These options are available only when a choice, "()", is indicated.If the user turns MicroWeave "ON", the High Speed mode (bin directional printhead printing) should be disabled for best quality. Revision: 01 10 When printing an image that contains both color and black data on plain paper, (such as black text on a color) Limitation of ink duty * a) C, M, or Y ink b) R,G,B = two inks c) Black =Three inks (C+M+Y) a) 100% (255/255) b) 200% (255/255*2) c) 300% (255/255*3) a) 100% (255/255) b) 200% (255/255*2) c) 200% (170/255*3) a) 100% (255/255) b) 160% (204/255*2) c) 160% (136/255*3) a) 100% (255/255) b) 160% (204/255*2) c) 160% (136/255*3) a) 100% (255/255) b) 130% (166/255*2) c) 130% (110/255*3) a) 100% (255/255) b) 100% (128/255*2) c) 100% (85/255*3) Option** Micro High Weave Speed OFF ON (OFF) ON (OFF) OFF (ON) OFF OFF (ON**) ON** (OFF) ON ON OFF ON OFF Small dot size is selected using "ESC (e" command.

* These are recommended values only. You may find that other values are more suitable for your driver or application. ** The parameter within the "()" indicates a user selectable option. These options are available only when a choice, "()", is indicated.If the user turns MicroWeave "ON", the High Speed mode (bin directional printhead printing) should be disabled for best quality. Revision: 01 13 5. The new EPSON Stylus COLOR series "small dot" ESC/P2 Command The ESC/P2 command to control the Dot Size is: Format: ASCII Hex Dec Parameter range : n1 = n2 = = Function: selects the ink drop size (nominal dot diameter) Note: - default is standard dot size n2 = 00 - default dot size is set whenever the printer is initialized - this command is available regardless of resolution or printing mode - this command is implemented after entering raster graphics mode - ESC (G - and prior to sending raster graphics data - ESC . 6. Raster Graphic Command Table 10: Raster Graphic Command Summary Print Mode 180 x 180 360 x 360 360x720 720 x 720 ESC . @@@@The ESC/P2 command to select the "Higher Performance Monochrome Mode" or "Standard performance Color Mode" is: Format: ASCII Hex Dec Parameter range : n1 = n2 = = Function: 00 00 01 02 ESC 1B 27 (28 40 K 4B 75 02H 02 02 00H 00 00 n1 n1 n1 n2 n2 n2 selects default mode selects higher performance monochrome mode selects standard color mode - Higher Performance Monochrome Mode - before only monochrome data is sent, select higher performance monochrome printing mode - throughput is faster than printing monochrome data in standard mode - Standard Performance Color Mode - this is the standa mode which must be used if color data may be sent to rd the printer during the current page.



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Notes: - this command must be executed before paper feeding. - the default mode used when n2=00, or if no command is sent is as follows: - If black and color cartridges are both installed, the Standard Color Performance Mode is the default. - If the color cartridge is empty or removed, the Higher Performance Monochrome Mode is the default. - this command is reset by the initialization command and the default mode is used. Revision: 01 15 8. CIE - L*a*b* values Table 11: CIE - L*a*b* values for the Stylus Pro XL & Stylus Pro Resolution 360 dpi Color Cyan Magenta Yellow Black Coated Paper Cyan (360) Magenta Yellow Black Transparency Cyan Film Magenta Yellow Black Coated Paper Cyan (720) Magenta Yellow Black Media Type Plain L* 57.1 47.3 86.3 23.7 61.

8 56.1 85.2 37.0 17.5 17.

4 26.3 2.1 50.4 44.8 82.

5 18.1 a* -22.2 84.3 -6.1 0.5 -21.1 66.1 -6.0 1.5 -6.

1 38.3 -9.8 0.7 -19.3 84.5 0.0 0.6 b* -49.4 -39.7 76.

3 -2.3 -36.5 -32.2 52.9 -3.

9 -27.7 -18.7 -24.3 -2.5 -49.

1 -32.9 84.3 -0.9 720 dpi Revision: 01 16 Table 12: CIE - L*a*b* values for the Stylus COLOR II & Stylus 1500 Resolution 360 dpi Color Cyan Magenta Yellow Black Coated Paper Cyan (360) Magenta Yellow Black Transparency Cyan Film Magenta Yellow Black Coated Paper Cyan (720) Magenta Yellow Black Glossy Paper Cyan Magenta Yellow Black Media Type Plain L* 61.1 53.3 86.1 25.7 56.7 46.2 86.

5 25.1 31.9 26.0 43.5 18.1 42.7 37.1 81.0 22.4 50.

3 42.1 87.2 16.4 a* -20.8 49.

8 -6.3 1.8 -21.7 67.1 -6.

2 2.0 -12.8 32.3 -9.1 0.7 -14.6 66.2 4.9 2.2 -23.

6 72.4 -5.2 2.2 b* -36.3 -9.4 54.9 -2.4 -49.4 -9.7 77.

6 -5.4 -24.6 -9.5 31.5 -1.

3 -49.2 4.9 92.5 -5.3 -51.

5 6.9 95.0 -3.9 720 dpi 360x720 dpi Revision: 01 17 Table 13: CIE - L*a*b* values for the Stylus COLOR IIs & Stylus 820 Resolution Monochrome 360 360x720 Color 360 dpi Color Black Black Black Cyan Magenta Yellow Black CMY Coated Paper Cyan (360) Magenta Yellow Black CMY Transparency Cyan Film Magenta Yellow Black CMY Coated Paper Cyan (720) Magenta Yellow Black CMY Glossy Paper Cyan Magenta Yellow Black CMY Media Type Plain Transparency Plain Plain L* 25.6 2.6 25.7 60.9 52.5 85.5 44.

3 48.2 56.3 46.0 86.4 32.7 37.9 17.1 9.5 26.1 4.

4 6.8 48.4 40.1 82.2 25.

0 29.7 48.6 39.4 85.9 14.

3 17.5 a* 1.5 1.1 1.8 -22.4 50.0 -7.1 13.7 3.1 -24.

7 67.4 -6.4 22.6 4.2 -5.5 31.5 -10.3 17.6 2.0 -18.

2 67.2 0.6 22.0 2.0 -25.

7 76.1 -5.4 36.7 4.4 b* -2.

2 -2.4 -2.0 -36.1 -7.9 56.7 -27.6 -7.2 -46.1 -6.7 76.

8 -39.1 -11.0 -28.3 -14.8 25.8 -28.8 -11.2 -49.3 1.0 86.

3 -37.6 -7.6 -51.8 9.5 99.

6 -49.9 -16.8 360x720 dpi Revision: 01 18 .



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