

Programming Note

for

EPSON

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

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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 standard, color optional)

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 main difference between the Stylus COLOR II and the other printer models is that the black ink, which is darker for improved text printing, does not mix well with the Cyan, Magenta, and Yellow inks when printing on plain paper. On other type of papers, this Black ink and the CMY inks can be mixed without any problem. When printing an image that contains both color and black data on plain paper, EPSON recommends using C+M+Y to create composite black.

The Stylus COLOR IIs is the least expensive EPSON color solution. The printer can be set up as either a black only printer, or as a CMY three color printer. The user can easily replace the ink cartridge and print head to match the type of printing desired. The maximum printable resolution for the Stylus COLOR IIs is 360 dpi horizontal by 720 dpi vertical.

The Stylus 820 is identical to the Stylus COLOR IIs except for the default configuration, which is monochrome for the Stylus 820 and color for the Stylus COLOR IIs. The Stylus 820 is shipped with only a monochrome ink cartridge and print head. The user can purchase a color option to upgrade to a color capable printer. The Stylus 820 driver, should be identical to the Stylus COLOR IIs driver, including color. The Stylus 820 is shipping in Asia & Europe but not in the U.S.

The Stylus 1500 is a wide carriage printer that supports up to A2, US C size papers as well as tractor continuous sheet printing. The Stylus 1500 is a color upgradable monochrome printer.

Table 1 summarizes the new features for the new EPSON Stylus COLOR printer series.

Table 1: Printer Feature summary

| | Stylus Pro XL | Stylus Pro | Stylus COLOR II & Stylus 1500 | Stylus COLOR IIs & Stylus 820 |
|---------------------------|----------------|----------------|--|---|
| Max Resolution (dpi) | 720h x 720v | 720h x 720v | 720h x 720v | 360h x 720v |
| Small dot | yes | yes | yes | Yes (res. may be lower quality than others) |
| Ink Type | CYMK | CYMK | CMY + K (K not mixable for plain paper) | CMY or K (user switchable) |
| Paper type vs. Resolution | | | | |
| Glossy | 720* | 720* | 720* | 360x720* |
| 720 Coated | 720* | 720* | 720* | 360x720* |
| 360 Coated | 360 | 360 | 360* | 360* |
| Transparency | 360 | 360 | 360* | 360* |
| Plain | 180, 360, 720* | 180, 360, 720* | 180, 360, 720* | 180,360, 360x 720* |

* = set to small dot for this resolution

2. Paper Types and Sizes

In addition to the standard plain paper and envelope sizes, EPSON provides special paper types in the following sizes:

Table 2: Epson Paper Types and Sizes

| EPSON Special Paper | Paper Sizes |
|---------------------|--|
| Glossy | Letter, A4, A3*, B*, Super A3/B* |
| Coated 720 | Letter, Legal, A4, A3*, B*, SuperA3/B*, A2 ** |
| Coated 360 | Letter, A4, A3*, Super A3/B*, A2** |
| Transparency | Letter, A4 |
| Plain Paper | Letter, Legal, A4, Executive, Statement, B5, User Defined*** |
| | Envelopes: DL, CA, #10 |

- * - paper size supported only by the wide carriage printers: Stylus Pro X and Stylus 1500
- ** - paper size supported only by the Stylus 1500
- *** - The minimum and maximum User Defined paper sizes for the Stylus Pro XL are 101.8~329 (mm) x 101.6~1117.6 (mm), Width x Height, respectively.
 - The minimum and maximum User Defined paper sizes for the Stylus 1500 are 101.8~431.8 (mm) x 101.6~1117.6 (mm), Width x Height, respectively.
 - The minimum and maximum User Defined paper sizes for the Stylus Pro, II, IIs, 820 are 101.8~215.9 (mm) x 101.6~1117.6 (mm), Width x Height, respectively.

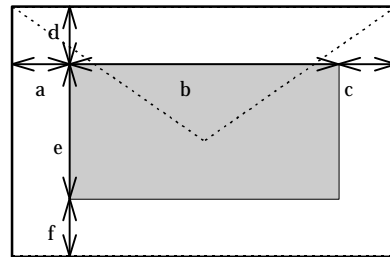
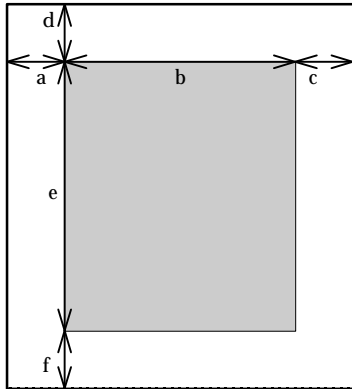
Note:

The following paper sizes, used only for the Japan domestic market, are omitted: B5, Post Card, 2-Way Post Card

3. Printable Area

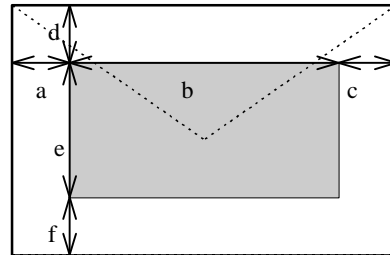
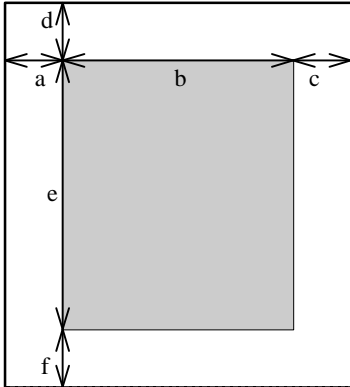
Table 3 through 5 summarize the printable area for the Stylus Pro XL; the Stylus Pro, Stylus COLOR II, Stylus COLOR IIs, Stylus 820; & the Stylus 1500, respectively.

Table 3: Printable Area for The EPSON Stylus Pro XL,
(1dot = 1/360")



| Size | a | b | c | d | e | f |
|-------------------|-------------------|-----------------------|--------------------|------------------|------------------------|---------------------|
| | Left Margin (dot) | Printable Width (dot) | Right Margin (dot) | Top Margin (dot) | Printable Height (dot) | Bottom Margin (dot) |
| Legal | 43 | 2,975 | 43 | 43 | 4,800 | 198 |
| Letter | 43 | 2,975 | 43 | 43 | 3,720 | 198 |
| A4 | 43 | 2,891 | 43 | 43 | 3,969 | 198 |
| Executive | 43 | 2,525 | 43 | 43 | 3,540 | 198 |
| Statement | 43 | 1,895 | 43 | 43 | 2,820 | 198 |
| A6 Index | 43 | 1,403 | 43 | 43 | 1,857 | 198 |
| #10 Envelope | 43 | 3,335 | 43 | 43 | 1,245 | 198 |
| C5 Envelope | 43 | 3,159 | 43 | 43 | 2,056 | 198 |
| DL Envelope | 43 | 3,032 | 43 | 43 | 1,319 | 198 |
| A3 | 43 | 4,124 | 43 | 43 | 5,712 | 198 |
| Super A3/B | 43 | 4,577 | 43 | 43 | 6,605 | 198 |
| US-B | 43 | 3,875 | 43 | 43 | 5,885 | 198 |
| User Defined Size | | | | | | |
| Minimum: | 43 | 1,356 | 43 | 43 | 1,199 | 198 |
| Maximum: | | 4,577 | | | 15,601 | |

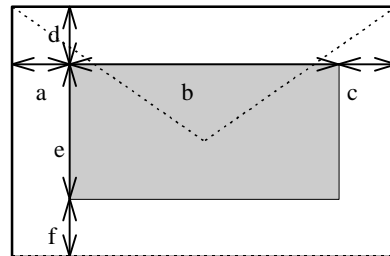
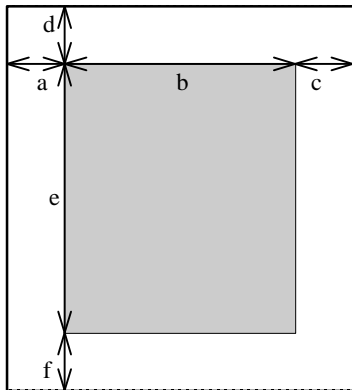
Table 4: Printable Area for The EPSON Stylus Pro, COLOR II, COLOR IIs, & Stylus 820,
(1dot = 1/360")



| Size | a | b | c | d | e | f |
|-------------------|-------------------|------------------------|--------------------|------------------|------------------------|---------------------|
| | Left Margin (dot) | Printable Width* (dot) | Right Margin (dot) | Top Margin (dot) | Printable Height (dot) | Bottom Margin (dot) |
| Legal | 43 | 2,880 | 137 | 43 | 4,800 | 198 |
| Letter | 43 | 2,880 | 137 | 43 | 3,720 | 198 |
| A4 | 43 | 2,880 | 137 | 43 | 3,969 | 198 |
| Executive | 43 | 2,525 | 43 | 43 | 3,540 | 198 |
| Statement | 43 | 1,895 | 43 | 43 | 2,820 | 198 |
| A6 Index | 43 | 1403 | 43 | 43 | 1857 | 198 |
| #10 Envelope | 43 | 2,880 | 498 | 43 | 1,245 | 198 |
| C5 Envelope | 43 | 2,880 | 322 | 43 | 2,056 | 198 |
| DL Envelope | 43 | 2,880 | 195 | 43 | 1,319 | 198 |
| User Defined Size | | | | | | |
| Minimum: | 43 | 1,356 | 43 | 43 | 1,199 | 198 |
| Maximum: | | 2,880 | | | 15,601 | |

* - the maximum printable width for narrow carriage printers is 8" or 2880 dots, (1"=360 dots)

Table 5: Printable Area for The EPSON Stylus 1500
(1dot = 1/360")



| Size | a | b | c | d | e | f |
|----------------------------|-------------------|-----------------------|--------------------|------------------|------------------------|---------------------|
| | Left Margin (dot) | Printable Width (dot) | Right Margin (dot) | Top Margin (dot) | Printable Height (dot) | Bottom Margin (dot) |
| Legal | 43 | 2,975 | 43 | 43 | 4,800 | 198 |
| Legal Transverse | 72 | 4896 | 72 | 43 | 2819 | 198 |
| Letter | 43 | 2,975 | 43 | 43 | 3,720 | 198 |
| A4 | 43 | 2,891 | 43 | 43 | 3,969 | 198 |
| Executive | 43 | 2,525 | 43 | 43 | 3,540 | 198 |
| Statement | 43 | 1,895 | 43 | 43 | 2,820 | 198 |
| A6 Index | 43 | 1403 | 43 | 43 | 1857 | 198 |
| B4 | 43 | 3458 | 43 | 43 | 4762 | 198 |
| B4 Transverse | 58 | 4890 | 58 | 43 | 3302 | 198 |
| #10 Envelope | 43 | 3335 | 43 | 43 | 1,245 | 198 |
| C5 Envelope | 43 | 3,159 | 43 | 43 | 2,056 | 198 |
| DL Envelope | 43 | 3,032 | 43 | 43 | 1,319 | 198 |
| A2 | 43 | 4896 | 1015 | 43 | 8178 | 198 |
| A3 | 43 | 4,124 | 43 | 43 | 5,712 | 198 |
| A3 Transverse | 353 | 4890 | 709 | 43 | 3969 | 198 |
| Super A3/B | 43 | 4,577 | 43 | 43 | 6,605 | 198 |
| US-B | 43 | 3,875 | 43 | 43 | 5,885 | 198 |
| US-B Transverse | 353 | 4887 | 878 | 43 | 3719 | 198 |
| US-C | 43 | 4896 | 1181 | 43 | 7679 | 198 |
| Tractor Paper Min.: | 43 | 1358 | 43 | - | - | - |
| Max.: | | 4896 | | | | |
| User Defined Size Minimum: | 43 | 1,358 | 43 | 43 | 1,199 | 198 |
| Maximum: | | 4,896 | | | 15,601 | |

4. Ink Density vs. Printing Mode

To prevent oversaturation when mixing Cyan (C), Magenta (M), Yellow (Y) & Black (K) ink drops on paper, the amount of ink applied will vary depending on the printer model, type of paper and resolution used

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 | Limitation of ink duty* | Option** | |
|------------|------------------------|------------------------|--|-------------|------------|
| | | Resolution (Dot size) | | Micro Weave | High Speed |
| (180 dpi) | Plain Paper | 180 dpi, (Normal Dot) | a) 100% (255/255) b) 200% (255/255*2) | OFF | ON (OFF) |
| (360 dpi) | Plain Paper | 360 dpi, (Normal Dot) | a) 100% (255/255) b) 200% (255/255*2) | OFF (ON**) | ON (OFF) |
| | Coated Paper - 360 dpi | 360 dpi, (Normal Dot) | a) 100% (255/255) b) 200% (255/255*2) | ON (OFF) | ON (OFF) |
| | Transparency Film | 360 dpi, (Normal Dot) | a) 100% (255/255) b) 200% (255/255*2) | ON | OFF (ON) |
| (720 dpi) | Plain Paper -720 dpi | 720 dpi, (Small Dot) † | a) 67% (171/255) b) 100% (128/255*2) | ON | OFF (ON) |
| | Coated Paper -720 dpi | 720 dpi, (Small Dot) † | a) 100% (255/255) b) 130% (166/255*2) | ON | OFF (ON) |
| | Glossy Paper | 720 dpi (Small Dot) † | a) 75% (191/255) b) 100% (128/255*2) | ON | OFF (ON) |

† 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 (bi-directional printhead printing) should be disabled for best quality.

When printing an image that contains both color and black data on plain paper, (such as black text on a color picture), with a Stylus COLOR II or a Stylus 1500, EPSON recommends printing black with composite black by mixing C+M+Y inks. This black ink can mix with the CMY inks for all other paper types, in the Stylus COLOR II and Stylus 1500.

Table 7: Ink Density vs. Print Mode for Stylus COLOR II and Stylus 1500

| Resolution | Media Type | Print mode Dot arrangement, (Dot size) | Limitation of ink duty [†] | Option** | |
|------------|---------------------------|--|--|---------------|-------------|
| | | | | Micro Weave | High Speed |
| (180 dpi) | Plain Paper ^{††} | 180 dpi, (Normal Dot) | a) 100% (255/255) b) 200% (255/255*2) c) 300% (255/255*3)? | OFF | ON (OFF) |
| (360 dpi) | Plain Paper ^{††} | 360 dpi, (Normal Dot) | a) 100% (255/255) b) 200% (255/255*2) c) 200% (170/255*3)? | OFF (ON**) | ON (OFF) |
| | Coated Paper -360 dpi | 360 dpi, (Small Dot) [†] | a) 100% (255/255) b) 160% (136/255*2) c) 160% (136/255*3)? | ON** (OFF) | OFF (ON) |
| | Transparency Film | 360 dpi, (Small Dot) [†] | a) 100% (255/255) b) 160% (136/255*2) c) 160% (136/255*3)? | ON | OFF |
| (720 dpi) | Coated Paper -720 dpi | 720 dpi, (Small Dot) [†] | a) 65% (166/255) b) 65% (83/255*2) c) 65% (55/255*3)? | ON | OFF |
| | Glossy Paper | 720 dpi, (Small Dot) [†] | a) 50% (255/255) b) 50% (64/255*2) c) 50% (43/255*3)? | ON | OFF |

[†] Small dot size is selected using “ESC (e” command.

^{††} When printing an image with both color and black data on plain paper, use composite black (C+M+Y).

? indicates that these are not fully verified values and you should use special caution when programming for this setting.

* 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 (bi-directional printhead printing) should be disabled for best quality.

Table 8: Ink Density vs. Monochrome Print Mode for the Stylus COLOR IIs, Stylus 820
(Monochrome Print Head and Ink Cartridge Installed)

| Resolution | Media Type | Print mode | Limitation of ink duty* For Black ink | Option** | |
|----------------------|---------------------------|------------------------------------|--|---------------|-------------|
| | | Resolution, (Dot size) | | Micro Weave | High Speed |
| (180 dpi) | Plain Paper | 180 dpi, (Normal Dot) | 100% (255/255) | OFF | ON (OFF) |
| (360 dpi) *** | Plain Paper | 360 dpi, (Normal Dot) | 100% (255/255) | OFF (ON**) | ON (OFF) |
| | Coated Paper -360 dpi | 360 dpi, (Normal Dot) ? | 100% (255/255)? | ON** (OFF) | OFF (ON) |
| | Transparency Film | 360 dpi, (Small Dot) † | 100% (255/255) | ON | OFF |
| (360x720dpi) | Plain Paper | 360x720 dpi (Small Dot) † | 100% (255/255) | ON | OFF (ON) |
| (360x720dpi) *** | Coated Paper - 720 dpi | 360x720 dpi (Small Dot) † ? | 100% (255/255)? | ON | OFF (ON) |
| | HQ Glossy Paper | 360x720 dpi, (Small Dot) † ? | 100% (255/255)? | ON | OFF (ON) |

† Small dot size is selected using “ESC (e” command.

? indicates that these are not fully verified values and you should use special caution when programming for this setting.

* 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 (bi-directional printhead printing) should be disabled for best quality..

*** These combinations of settings (along this row) are possible, but not recommended.

Table 9: Ink Density vs.CMY Print Mode for Stylus COLOR IIs, Stylus 820
(CMY Print Head and Ink Cartridge Installed)

| Resolution | Media Type | Print mode | Limitation of ink duty† | Option** | |
|--------------|-----------------------|-----------------------------|--|-------------|------------|
| | | Dot arrangement, (Dot size) | a) C, M, or Y ink b) R,G,B = two inks c) Black =Three inks (C+M+Y) | Micro Weave | High Speed |
| (180 dpi) | Plain Paper | 180 dpi, (Normal Dot) | a) 100% (255/255) b) 200% (255/255*2) c) 300% (255/255*3) | OFF | ON (OFF) |
| (360 dpi) | Plain Paper | 360 dpi, (Normal Dot) | a) 100% (255/255) b) 200% (255/255*2) c) 200% (170/255*3) | OFF (ON**) | ON (OFF) |
| | Coated Paper -360 dpi | 360 dpi, (Small Dot) † | a) 100% (255/255) b) 160% (204/255*2) c) 160% (136/255*3) | ON** (OFF) | OFF (ON) |
| | Transparency Film | 360 dpi, (Small Dot) † | a) 100% (255/255) b) 160% (204/255*2) c) 160% (136/255*3) | ON | OFF |
| (360x720dpi) | Coated Paper -720 dpi | 360x 720 dpi, (Small Dot) † | a) 100% (255/255) b) 130% (166/255*2) c) 130% (110/255*3) | ON | OFF |
| (360x720dpi) | Glossy Paper | 360x 720 dpi, (Small Dot) † | a) 100% (255/255) b) 100% (128/255*2) c) 100% (85/255*3) | 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 (bi-directional printhead printing) should be disabled for best quality.

5. The new EPSON Stylus COLOR series “small dot” ESC/P2 Command

The ESC/P2 command to control the Dot Size is:

Format:

| | | | | | | | |
|-------|-----|----|-----|-----|-----|----|----|
| ASCII | ESC | (| e | 02H | 00H | n1 | n2 |
| Hex | 1B | 28 | 65 | 02 | 00 | n1 | n2 |
| Dec | 27 | 40 | 101 | 02 | 00 | n1 | n2 |

Parameter range

| | |
|---------|--------------------------------------|
| n1 = 00 | reserved for future use. Set to 00 |
| n2 = 00 | default dot size (standard dot size) |
| = 01 | selects small dot size |
| = 02 | selects standard dot size |

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 | Command | Parameter | | | | | Micro Weave |
|------------|--------------------|-----------|-----|----|----|----------|-------------|
| | | V | H | v | h | m | |
| 180 x 180 | ESC . 0, 1, 2 or 3 | 180 | 180 | 20 | 20 | 1, 8, 24 | N/A |
| 360 x 360 | | 360 | 360 | 10 | 10 | 1, 8, 24 | Available |
| 360x720 | | 720 | 360 | 5 | 10 | 1 | Available |
| 720 x 720 | | 720 | 720 | 5 | 5 | 1, 8, 24 | Available |

7. Higher Performance Monochrome Mode for The EPSON Stylus COLOR II & Stylus 1500 only

If printing with only true Black ink (monochrome mode), printing speed can be enhanced by selecting the following command. This command does not affect the ink used for printing, it only affects internal buffering schemes which can improve performance.

The ESC/P2 command to select the “Higher Performance Monochrome Mode” or “Standard performance Color Mode” is:

Format:

| | | | | | | | |
|-------|-----|----|----|-----|-----|----|----|
| ASCII | ESC | (| K | 02H | 00H | n1 | n2 |
| Hex | 1B | 28 | 4B | 02 | 00 | n1 | n2 |
| Dec | 27 | 40 | 75 | 02 | 00 | n1 | n2 |

Parameter range

| | |
|---------|--|
| n1 = 00 | |
| n2 = 00 | selects default mode |
| = 01 | selects higher performance monochrome mode |
| = 02 | selects standard color mode |

Function

- 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 standard mode which must be used if color data may be sent to the printer during the current page.

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.

8. CIE - L*a*b* values

Table 11: CIE - L*a*b* values for the Stylus Pro XL & Stylus Pro

| Resolution | Media Type | Color | L* | a* | b* |
|------------|--------------------|---------|------|-------|-------|
| 360 dpi | Plain | Cyan | 57.1 | -22.2 | -49.4 |
| | | Magenta | 47.3 | 84.3 | -39.7 |
| | | Yellow | 86.3 | -6.1 | 76.3 |
| | | Black | 23.7 | 0.5 | -2.3 |
| | Coated Paper (360) | Cyan | 61.8 | -21.1 | -36.5 |
| | | Magenta | 56.1 | 66.1 | -32.2 |
| | | Yellow | 85.2 | -6.0 | 52.9 |
| | | Black | 37.0 | 1.5 | -3.9 |
| | Transparency Film | Cyan | 17.5 | -6.1 | -27.7 |
| | | Magenta | 17.4 | 38.3 | -18.7 |
| | | Yellow | 26.3 | -9.8 | -24.3 |
| | | Black | 2.1 | 0.7 | -2.5 |
| 720 dpi | Coated Paper (720) | Cyan | 50.4 | -19.3 | -49.1 |
| | | Magenta | 44.8 | 84.5 | -32.9 |
| | | Yellow | 82.5 | 0.0 | 84.3 |
| | | Black | 18.1 | 0.6 | -0.9 |

Table 12: CIE - L*a*b* values for the Stylus COLOR II & Stylus 1500

| Resolution | Media Type | Color | L* | a* | b* |
|-------------|--------------------|---------|------|-------|-------|
| 360 dpi | Plain | Cyan | 61.1 | -20.8 | -36.3 |
| | | Magenta | 53.3 | 49.8 | -9.4 |
| | | Yellow | 86.1 | -6.3 | 54.9 |
| | | Black | 25.7 | 1.8 | -2.4 |
| | Coated Paper (360) | Cyan | 56.7 | -21.7 | -49.4 |
| | | Magenta | 46.2 | 67.1 | -9.7 |
| | | Yellow | 86.5 | -6.2 | 77.6 |
| | | Black | 25.1 | 2.0 | -5.4 |
| | Transparency Film | Cyan | 31.9 | -12.8 | -24.6 |
| | | Magenta | 26.0 | 32.3 | -9.5 |
| | | Yellow | 43.5 | -9.1 | 31.5 |
| | | Black | 18.1 | 0.7 | -1.3 |
| 720 dpi | Coated Paper (720) | Cyan | 42.7 | -14.6 | -49.2 |
| | | Magenta | 37.1 | 66.2 | 4.9 |
| | | Yellow | 81.0 | 4.9 | 92.5 |
| | | Black | 22.4 | 2.2 | -5.3 |
| 360x720 dpi | Glossy Paper | Cyan | 50.3 | -23.6 | -51.5 |
| | | Magenta | 42.1 | 72.4 | 6.9 |
| | | Yellow | 87.2 | -5.2 | 95.0 |
| | | Black | 16.4 | 2.2 | -3.9 |

Table 13: CIE - L*a*b* values for the Stylus COLOR IIs & Stylus 820

| Resolution | Media Type | Color | L* | a* | b* |
|-------------------|-----------------------|---------|------|-------|-------|
| Monochrome 360 | Plain | Black | 25.6 | 1.5 | -2.2 |
| | Transparency | Black | 2.6 | 1.1 | -2.4 |
| 360x720 | Plain | Black | 25.7 | 1.8 | -2.0 |
| Color 360 dpi | Plain | Cyan | 60.9 | -22.4 | -36.1 |
| | | Magenta | 52.5 | 50.0 | -7.9 |
| | | Yellow | 85.5 | -7.1 | 56.7 |
| | | Black | 44.3 | 13.7 | -27.6 |
| | | CMY | 48.2 | 3.1 | -7.2 |
| | Coated Paper (360) | Cyan | 56.3 | -24.7 | -46.1 |
| | | Magenta | 46.0 | 67.4 | -6.7 |
| | | Yellow | 86.4 | -6.4 | 76.8 |
| | | Black | 32.7 | 22.6 | -39.1 |
| | | CMY | 37.9 | 4.2 | -11.0 |
| | Transparency Film | Cyan | 17.1 | -5.5 | -28.3 |
| | | Magenta | 9.5 | 31.5 | -14.8 |
| | | Yellow | 26.1 | -10.3 | 25.8 |
| | | Black | 4.4 | 17.6 | -28.8 |
| | | CMY | 6.8 | 2.0 | -11.2 |
| 360x720 dpi | Coated Paper (720) | Cyan | 48.4 | -18.2 | -49.3 |
| | | Magenta | 40.1 | 67.2 | 1.0 |
| | | Yellow | 82.2 | 0.6 | 86.3 |
| | | Black | 25.0 | 22.0 | -37.6 |
| | | CMY | 29.7 | 2.0 | -7.6 |
| | Glossy Paper | Cyan | 48.6 | -25.7 | -51.8 |
| | | Magenta | 39.4 | 76.1 | 9.5 |
| | | Yellow | 85.9 | -5.4 | 99.6 |
| | | Black | 14.3 | 36.7 | -49.9 |
| | | CMY | 17.5 | 4.4 | -16.8 |