

# Photoplotter RP800+ST

**NEW**

**EXTRA LARGE SIZE**

**series**



**SWISS QUALITY**

1422 x 864 mm • 56" x 34"

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# GENERAL Specifications

		RP208+ST	RP212+ST
<b>Exposing unit</b>	Max. Exposure area	660 x 520 mm (26" x 20,5")	•
	Compatible film lengths	12", 18", 20", 24", 25.5" and 26"	•
	Compatible film widths	Any width larger than 300 mm (12") up to 520 mm (20,5")	•
	Film thickness	0.18 mm (7 mils)	•
	Film holding	By vacuum	•
	Drum speed	Variable, up to 130 RPM	•
	Exposure device	256 beam STH head with light intensity equalization	•
	Light wavelength	Monochromatic red light, 647 nm	•
	Drum position control	Through high resolution encoder	•
	<b>1 Raster Image Processor</b>	Type	Built-in, provides "on-the-fly" rasterization Based on Windows XP and First EIE's MPS
Data input formats		RS274D, RS274X, EIE RPL and DPF	•
Optional input formats		TIFF, PACKBITS, Image 5000, ODB++ Via third party software: HPGL, DXF	•
Network compatibility		NetBEUI, TCP-IP	•
<b>User interface</b>	Queue Manager Software supporting 30 plot queues. Each one can be setup with more than 15 different plot parameters	•	•
<b>2 Integrated autoloader</b>	Compatible film lengths	12", 18", 20", 24", 25.5" and 26"	•
	Compatible film widths	Any width larger than 300 mm (12") up to 520 mm (20,5")	•
	Film magazine	Up to 150 films with automatic film counter	•
	Load / unload cycle	25 / 20 sec. for maximum film size	•
	Daylight operation	Yes, except during film refill and removal	•
<b>Size and weight</b>	Length x Width x Height	1150 x 650 x 1050 mm (45.3" x 25.6" x 41.3")	•
	Weight	365 kg (825 lbs) including autoloader	•
<b>Operating conditions</b>	Temperature	20 ± 2° C	•
	Relative humidity	45% ± 3%	•
	Power requirements	230 VAC ± 10%, 1400 W including vacuum pump	•
<b>3 Optional Film conveyor C200</b>	Compatibility	Compatible with most film processors	•
	Length x Width x Height	850 x 570 x 120 mm (33.5" x 22.4" x 4.7")	•
	Weight	33 kg (75 Lbs)	•
<b>Autoloader</b>	Yes	•	•
<b>Spot size</b>	12.7 µm (0.5 mil)	•	•
	8.5 µm (0.33 mil)	•	•
<b>Selectable resolutions</b>	2000, 4000 dpi and 8000 dpi	•	•
	3000, 6000 dpi and 12000 dpi	•	•
<b>Carriage position control</b>	Through Linear glass scale	•	•
<b>Exposure speed (For a 24" x 20" plot)</b>	Minutes at 2000 dpi	1.6	
	Minutes at 3000 dpi		2.0
	Minutes at 4000 dpi	2.6	
	Minutes at 6000 dpi		4.0
	Minutes at 8000 dpi	4.8	
	Minutes at 12000 dpi		11.3
<b>Overall accuracy</b>	± 12 µm (± 0.5 mil)	•	•
	± 10 µm (± 0.4 mil)	•	•
<b>Repeatability</b>	± 3 µm (± 0.12 mil)	•	•
<b>4 Minimum line width</b>	50 µm (2 mils) at 2000 dpi	•	•
	34 µm (1.33 mil) at 3000 dpi	•	•
	25 µm (1 mil) above 4000 dpi	•	•
	17 µm (0.67 mil) at 12000 dpi	•	•
<b>Line width variation</b>	Less than 4 µm peak to peak	•	•
	About 3 µm peak to peak at 8000 dpi	•	•
	About 2 µm peak to peak at 12000 dpi	•	•

METRIC RESOLUTIONS AVAILABLE ON REQUEST - SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

# RP200+ST series

THE SMALLEST FOOTPRINT



SWISS QUALITY  
660 x 520 mm • 26" x 20.5"

P R E C I S I O N

# FIRST EIE SA

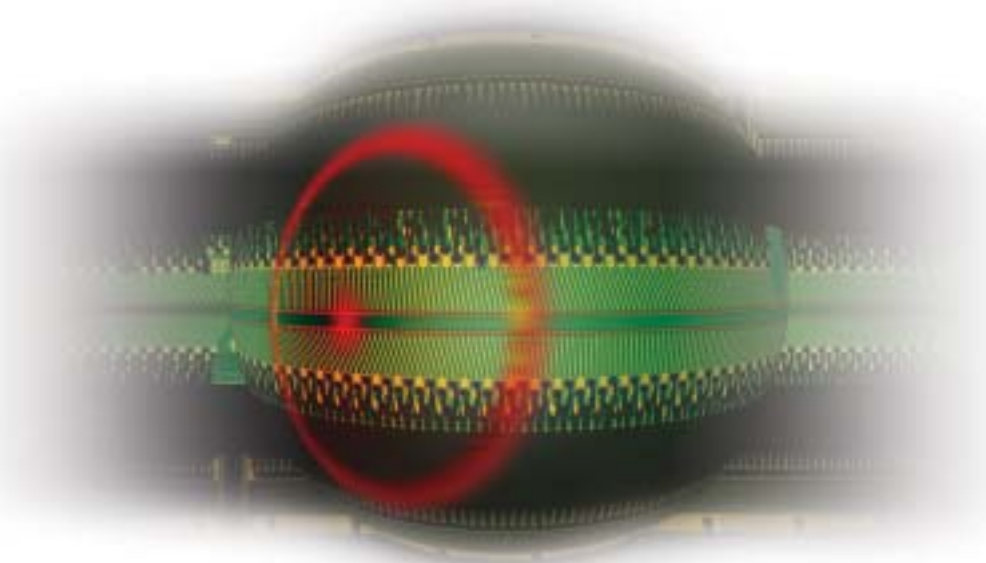
## THE NEW ST LINE OF PHOTOPLottERS

retains the same general principles that have made the worldwide reputation of the previous models while introducing a significant leap forward in speed and exposure quality.

### speed

With its new electronics and powerful internal computer, the RP200+ST series can plot up to three times as fast as its predecessors being able to turn out up to 25 films (24"x 20") per hour.

The RP200+ST series Photoplotters offer the best price/performance ratio of the market. They combine compactness (footprint : 1150 x 650 mm, 45"x 25") with high accuracy and quality (12000 dpi resolution) for film size up to 660 x 520 mm (26"x 20,5").



### technology

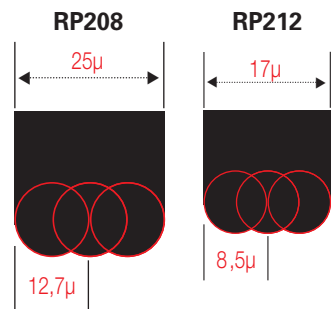
With its new proprietary MRLD array, the improved 256 beam head (STH) available for the RP200 ST series gives perfectly homogeneous and sharp spots. For the high-end metric models it can produce spots as small as 8 μm to bring the capability of producing high quality phototools with 16 μm lines and spaces.

#### PRECISE LIGHT BEAM EQUALIZATION

To produce sharp and very accurate HDI lines and spaces



line width variation within 2 μm at 12000 dpi when optimum film processing conditions are met.



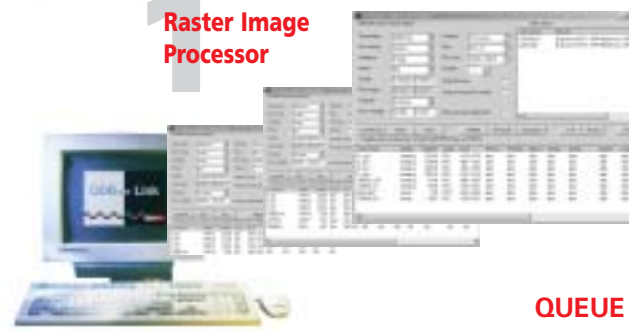
#### 4 Minimum line width

#### 3 Optional Film conveyor C200

Compatible with most film processors



#### 1 Raster Image Processor



#### QUEUE MANAGER USER INTERFACE

the most efficient tool to organize your work flow

#### 2 Integrated autoloader

#### TRUE MULTIPLE SIZE AUTOLOADER

Automatic film loading system. 150 films.



Raster photoplotters series +ST

Circuit legend printer

# RP28+ST

THE LIGHTEST MODEL **series**



**SWISS QUALITY**  
ENTRY LEVEL COMPACT RASTER PHOTOPLOTTER

P R E C I S I O N



# GENERAL Specifications

## Compact Size Raster Photoplotter RP28+ST

### Exposing unit:

Max. Exposable area: 660 x 520 mm (26" x 20.5")  
Compatible film lengths: 12", 18", 20", 24", 25.5" and 26"  
Compatible film widths: Any width larger than about 300 mm (12")  
Film thickness: 0.18 mm (7 mils)  
Film holding: By vacuum  
Drum speed: Variable, up to 130 RPM  
Exposure device: Monochromatic red light, 256 beams  
Light wavelength: 647 nm  
Drum position control: Through high resolution encoder

### Raster image processor:

Type: Built-in, provides "on-the-fly" rasterization  
Based on Windows XP and First EIE's MPS  
Data input formats: RS274D, RS274X, EIE RPL and DPF  
Optional input formats: Image 5000, TIFF, PACKBITS  
Via third party software: ODB++, HPGL, DXF  
Network compatibility: NetBEUI, TCP-IP

### User interface:

Queue Manager Software supporting 30 queues. Each one can be setup with more than 15 various plot parameters

### Film loading:

Semi-automatic loader and unloader

### Size and weight:

Length x Width x Height: 1150 x 650 x 1050 mm  
(45.3" x 25.6" x 41.3")  
Weight: 290 kg (655 lbs) including trolley

### Power:

1400 W (including vacuum pump)

### Voltage:

230 VAC  $\pm$  10%

### Model:

**RP28+ST**

Spot size: 12.7  $\mu$ m (0.5 mil)  
Selectable resolutions: 2000, 4000 dpi (8000 dpi option)  
Carriage position control: Through encoder  
Exposure speed: 1,6 min at 2000 dpi  
(For a plot of 24" x 20")  
2,6 min at 4000 dpi  
4,8 min at 8000 dpi  
Overall accuracy:  $\pm$  15  $\mu$ m ( $\pm$  0.6 mil)  
Repeatability:  $\pm$  5  $\mu$ m ( $\pm$  0.2 mil)  
Minimum line width: 50  $\mu$ m (2 mils) at 2000 dpi  
25  $\mu$ m (1 mil) above 4000 dpi  
Line width variation: Less than 6  $\mu$ m peak to peak



Specifications subject to change without notice

## ELECTRONIC IMAGING ENTERPRISE

**MULTI-BEAM TECHNOLOGY**  
**EXTERNAL DRUM**  
**VERY SMALL FOOTPRINT**  
**SEMI-AUTOMATIC FILM LOADER**  
**ADVANCED NETWORK OPERATION**  
**WINDOWS XP PLATFORM**  
**LIGHT BUDGET**



# Specifications

GENERAL		RP308+ST	RP312+ST	RP348+ST-DL	RP362+ST-DL
<b>Exposing unit</b>	Max. Exposure area	914 x 660 mm (36" x 26")	•	•	•
	Compatible film lengths	18", 20", 24", 25.5", 26", 28", 30", 32" and 36"	•	•	•
	Compatible film widths	Any width larger than 300 mm (12") up to 660 mm (26")	•	•	•
	Film thickness	0.18 mm (7 mils)	•	•	•
	Film holding	By vacuum	•	•	•
	Drum speed	Variable, up to 100 RPM	•	•	•
	Exposure device	One 256 beam STH head with light intensity equalization	•	•	•
		Two 256 beam STH heads with light intensity equalization	•	•	•
	Light wavelength	Monochromatic red light, 647 nm	•	•	•
	Drum position control	Through high resolution encoder	•	•	•
<b>Raster Image Processor</b>	Type	Built-in, provides "on-the-fly" rasterization Based on Windows XP and First EIE's MPS	•	•	•
	Data input formats	RS274D, RS274X, EIE RPL and DPF	•	•	•
	Optional input formats	TIFF, PACKBITS, Image 5000, ODB++ Via third party software: HPGL, DXF	•	•	•
	Network compatibility	NetBEUI, TCP-IP	•	•	•
<b>User interface</b>	Queue Manager Software supporting 30 plot queues. Each one can be setup with more than 15 different plot parameters		•	•	•
<b>Environment monitoring</b>	Temperature and humidity recorded for each plot		•	•	•
<b>Single size integrated autoloader</b>	Compatible film lengths	18", 20", 24", 25.5", 26", 28", 30", 32" and 36"	•	•	•
	Film magazine	Up to 100 films with automatic film counter	•	•	•
<b>Dual size integrated autoloader</b>	Compatible film lengths 1° tray	18", 20", 24", 25.5", 26", 28", 30", 32" and 36"	•	•	•
	2° tray	18", 20", 24", 25.5" and 26"	•	•	•
<b>Size and weight</b>	Film magazine	Up to 50 films per each tray	•	•	•
	Compatible film widths	Any width larger than 300 mm (12") up to 660 mm (26")	•	•	•
	Load / unload cycle	35 / 25 sec. for maximum film size	•	•	•
	Daylight operation	Yes, except during film refill and removal	•	•	•
<b>Operating conditions</b>	Length x Width x Height	1330 x 750 x 1400 mm (52.4" x 29.5" x 55.1")	•	•	•
	Weight	520 kg (1172 lbs) including autoloader 535 kg (1206 lbs) including autoloader	•	•	•
	Temperature	20 ± 2° C	•	•	•
<b>Optional Film conveyor C300 B</b>	Relative humidity	45% ± 3%	•	•	•
	Power requirements	230 VAC ± 10%, 1400 W including vacuum pump	•	•	•
	Compatibility	Compatible with most film processors	•	•	•
<b>Autoloader</b>	Length x Width x Height	880 x 697 x 140 mm (34.6" x 27.5" x 5.5")	•	•	•
	Weight	36 kg (81 Lbs)	•	•	•
<b>Spot size</b>	Yes	•	•	•	•
	12.7 µm (0.5 mil) 8.5 µm (0.33 mil)	•	•	•	•
<b>Selectable resolutions</b>	2000, 4000 dpi and 8000 dpi	•	•	•	•
	3000, 6000 dpi and 12000 dpi	•	•	•	•
	2000, 4000, 6000 dpi and 8000 dpi	•	•	•	•
	3000, 6000, 9000 dpi and 12000 dpi	•	•	•	•
<b>Carriage position control</b>	Through Linear glass scale	•	•	•	•
<b>Exposure speed (For a 34" x 24" plot)</b>	Minutes at 2000 dpi	2.4	3.1	1.3	1.6
	Minutes at 3000 dpi				
	Minutes at 4000 dpi	4.2	6.4	2.1	3.2
	Minutes at 6000 dpi				
	Minutes at 8000 dpi	7.7		4.5	6.0
	Minutes at 9000 dpi				
	Minutes at 12000 dpi		18.1		10.6
<b>Overall accuracy</b>	± 12 µm (± 0.5 mil)	•	•	•	•
	± 10 µm (± 0.4 mil)	•	•	•	•
<b>Repeatability</b>	± 3 µm (± 0.12 mil)	•	•	•	•
<b>Minimum line width</b>	50 µm (2 mils) at 2000 dpi	•	•	•	•
	34 µm (1.33 mil) at 3000 dpi	•	•	•	•
	25 µm (1 mil) above 4000 dpi	•	•	•	•
	17 µm (0.67 mil) at 12000 dpi	•	•	•	•
<b>Line width variation</b>	Less than 4 µm peak to peak	•	•	•	•
	About 3 µm peak to peak at 8000 dpi	•	•	•	•
	About 2 µm peak to peak at 12000 dpi	•	•	•	•

METRIC RESOLUTIONS AVAILABLE ON REQUEST - SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

# RP3000+ST series

THE LARGEST SIZE



SWISS QUALITY  
914 x 660 mm • 36" x 26"

P R E C I S I O N

# FIRST EIE SA

## THE NEW ST LINE OF PHOTOPLottERS

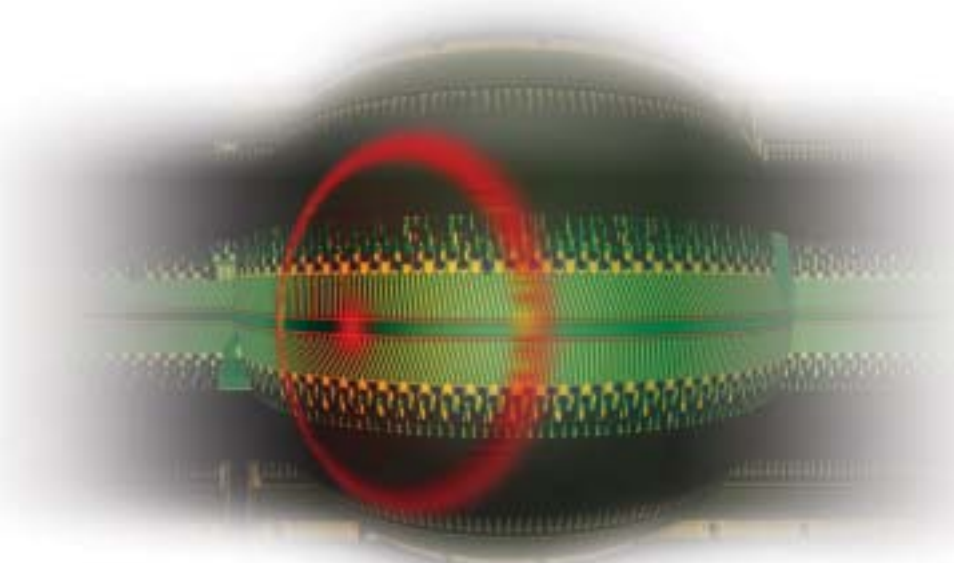
retains the same general principles that have made the worldwide reputation of the previous models while introducing a significant leap forward in speed and exposure quality.

### speed

With its new electronics and powerful internal computer, the RP300+ST series can plot up to three times as fast as its predecessors being able to turn out up to 27 films (34"x 24") per hour.

The RP300+ST series Photoplotters :  
Bestsellers with today, more than 200 units running worldwide.

Amongst its key features :  
Large film size (914 x 660 mm, 36"x 24").  
Dual size, fully automatic loader/unloader.



### technology

With its new proprietary MRLD array, the improved 256 beam head (STH) available for the RP300 ST series gives perfectly homogeneous and sharp spots. For the high-end metric models it can produce spots as small as 8 μm to bring the capability of producing high quality phototools with 16 μm lines and spaces.

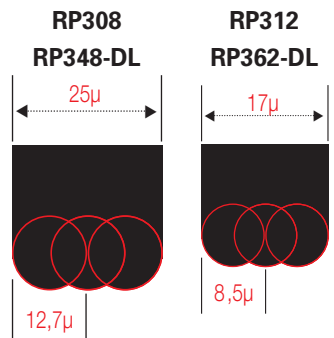
#### PRECISE LIGHT BEAM EQUALIZATION

To produce sharp and very accurate HDI lines and spaces



line width variation within 2 μm at 12000 dpi when optimum film processing conditions are met.

#### Minimum line width



#### TEMPERATURE AND HUMIDITY MONITORING

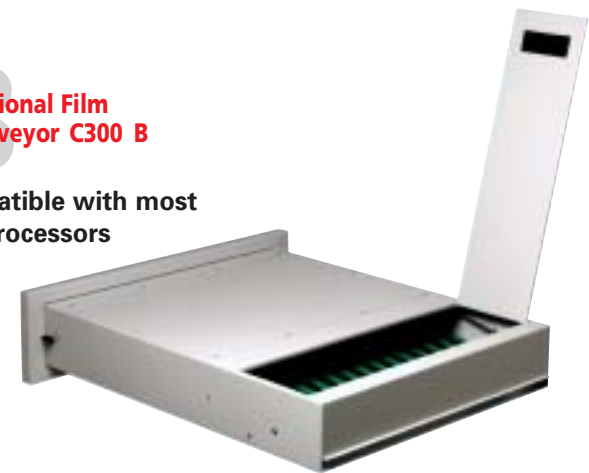
For constant accuracy and repeatability

Film instability for a 610 x 508 mm (24" x 20") film size

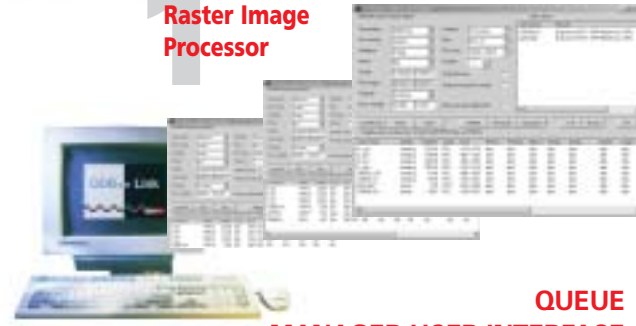
- 11 μm (0.4 mil) for a 1°C variation
- 7 μm (0.3 mil) for a 1% humidity variation

#### Optional Film conveyor C300 B

Compatible with most film processors



#### Raster Image Processor



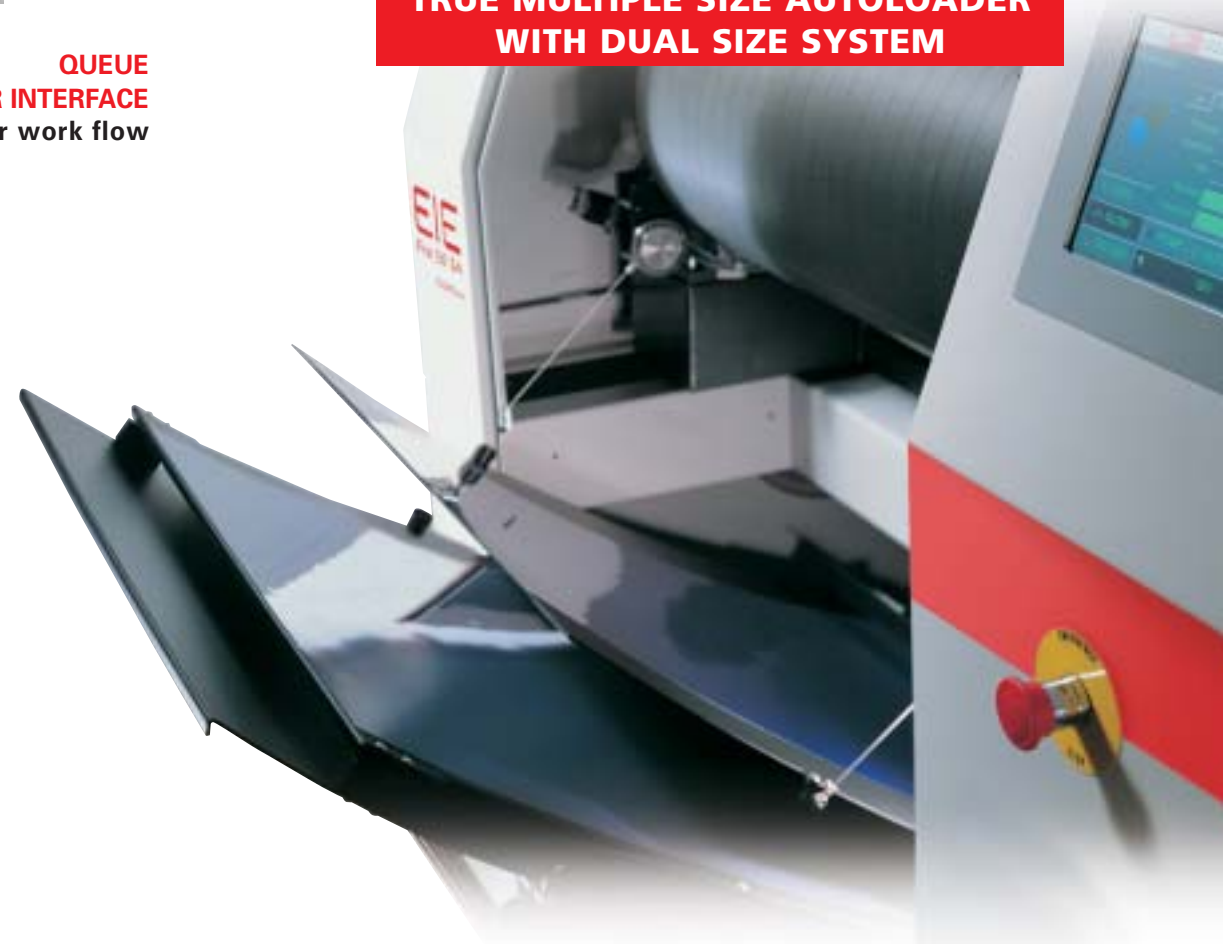
#### QUEUE MANAGER USER INTERFACE

the most efficient tool to organize your work flow

Single size loader (1 x 100 films)  
or Dual size loader (2 x 50 Films)

Single size integrated autoloader  
Dual size integrated autoloader

#### TRUE MULTIPLE SIZE AUTOLOADER WITH DUAL SIZE SYSTEM



# First EIE SA

## The new RP500+ST line of photoplotters

### GENERAL Specifications

		RP508+ST	RP512+ST
<b>1</b> Exposing unit	Max. Exposure area	810 x 710 mm (32" x 28")	•
	Compatible film lengths	18", 20", 24", 25.5", 26", 28", 30" and 32"	•
	Compatible film widths	Any width larger than 300 mm (12") up to 710 mm (28")	•
	Film thickness	0.18 mm (7 mils)	•
	Film holding	By vacuum	•
	Drum speed	Variable, up to 100 RPM	•
	Exposure device	One 512 beam STH head with light intensity equalization	•
	Light wavelength	Monochromatic red light, 647 nm	•
	Position control	Through high resolution encoder & Linear Glass Scale	•
	<b>Raster Image Processor</b>	Type	Built-in, provides "on-the-fly" rasterization Based on Windows XP and First EIE's MPS
Data input formats		RS274D, RS274X, EIE RPL and DPF	•
Optional input formats		ODB++, TIFF, PACKBITS, Image 5000. Via third part software: HPGL, DXF	•
Network compatibility		NetBEUI, TCP-IP	•
<b>User interface</b>	Queue Manager Software supporting 30 plot queues. Each one can be setup with more than 15 different plot parameters	•	•
<b>Environment monitoring</b>	Temperature and humidity recorded for each plot	•	•
<b>2</b> Single size integrated autoloader	Compatible film lengths	18", 20", 24", 25.5", 26", 28", 30" and 32"	•
	Compatible film widths	Any width larger than 300 mm (12") up to 710 mm (28")	•
	Film magazine	Up to 100 films	•
<b>Dual size integrated autoloader</b>	Load / unload cycle	25 / 30 sec. for maximum film size	•
	Compatible film lengths	1° tray 18", 20", 24", 25.5", 26", 28", 30" and 32" 2° tray 18", 20", 24", 25.5" and 26"	•
	Compatible film widths	Any width larger than 457 mm (18") up to 710 mm (28")	OPTION
	Film magazine	150 films per each tray	OPTION
	Load / unload cycle	60 sec. for maximum film size	OPTION
<b>Size and weight</b>	Daylight operation	Yes, except during film refill and removal	•
	Length x Width x Height	1390 x 745 x 1400 mm (54.7" x 29.3" x 47.8")	•
	Weight	450kg (1000 lbs) including autoloader	•
<b>Operating conditions</b>	Temperature	20 ± 2° C	•
	Relative humidity	45% ± 3%	•
	Power requirements	230 VAC ± 10%, 1400 W including vacuum pump	•
<b>Optional Film conveyor C500</b>	Compatibility	Compatible with most film processors	•
	Length x Width x Height	880 x 760 x 140 mm (34.6" x 29.9" x 5.5")	•
	Weight	36 kg (81 Lbs)	•
<b>Autoloader</b>	Yes	•	•
<b>Spot size</b>	12.7 µm (0.5 mil)	•	•
	8.5 µm (0.33 mil)	•	•
<b>Selectable resolutions</b>	2000, 4000, 6000 dpi and 8000 dpi	•	•
	3000, 6000, 9000 dpi and 12000 dpi	•	•
<b>Carriage position control</b>	Through Linear glass scale	•	•
<b>Exposure speed</b> (For a 30" x 24" plot)	Minutes at 2000 dpi	1.1	1.4
	Minutes at 3000 dpi		
	Minutes at 4000 dpi	1.8	
	Minutes at 6000 dpi	2.6	2.6
	Minutes at 8000 dpi	4.1	
	Minutes at 9000 dpi		5.4
<b>Overall accuracy</b>	Minutes at 12000 dpi		9.6
	± 12 µm (± 0.5 mil)	•	•
<b>Repeatability</b>	± 10 µm (± 0.4 mil)	•	•
	± 3 µm (± 0.12 mil)	•	•
<b>4</b> Minimum line width	50 µm (2 mils) at 2000 dpi	•	•
	34 µm (1.33 mil) at 3000 dpi	•	•
	25 µm (1 mil) above 4000 dpi	•	•
	17 µm (0.67 mil) at 12000 dpi	•	•
<b>Line width variation</b>	Less than 4 µm peak to peak	•	•
	About 3 µm peak to peak at 8000 dpi	•	•
	About 2 µm peak to peak at 12000 dpi	•	•

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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# RP500+ST series

## THE FASTEST 512 BEAMS



**SWISS QUALITY**  
810 x 710 mm • 32" x 28"

P R E C I S I O N



# FIRST EIE SA

## THE NEW ST LINE OF PHOTOPLOTTERS

retains the same general principles that have made the worldwide reputation of the previous models while introducing a significant leap forward in speed and exposure quality.

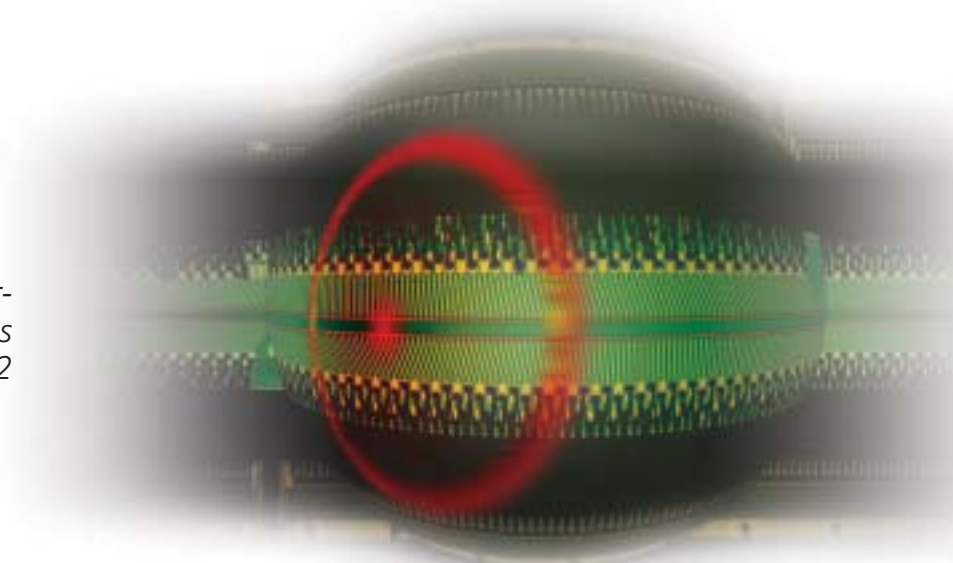
### speed

With its new electronics and powerful internal computer, the RP500+ST series can plot up to three times as fast as its predecessors being able to turn out up to 32 films 30"x 24") per hour.

The RP500+ST series Photoplotters.  
High-end models with unique features :  
Humidity and temperature monitoring  
Magazine film counter  
512 beam exposure device with precise beam equalization.

### technology

With its new proprietary MRLD array, the improved 256 beam head (STH) available for the RP500 ST series gives perfectly homogeneous and sharp spots. For the high-end metric models it can produce spots as small as 8 μm to bring the capability of producing high quality phototools with 16 μm lines and spaces.



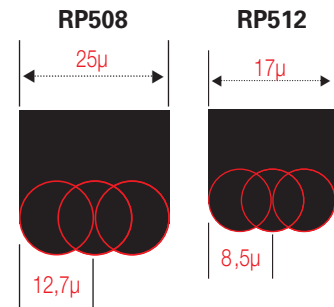
#### PRECISE LIGHT BEAM EQUALIZATION

To produce sharp and very accurate HDI lines and spaces



line width variation within 2 μm at 12000 dpi when optimum film processing conditions are met.

#### Minimum line width



#### AUTOTEST SEQUENCE AT POWER UP

Guarantees unsurpassed reliability

- checks accuracy
- checks light beams
- checks data processing ...

#### TOP CLASS EQUIPMENT

- high precision granite base
- previewer : previews image as it will be plotted
- touch screen front panel
- remote control via internet

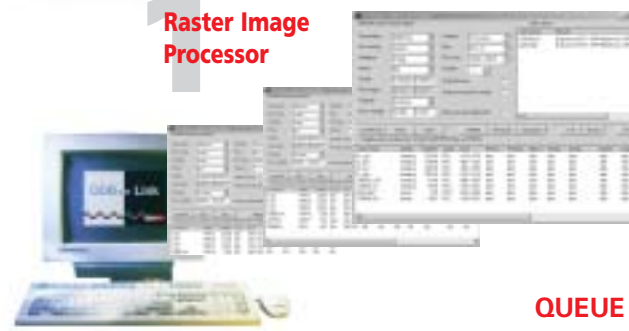
#### TEMPERATURE AND HUMIDITY MONITORING

For constant accuracy and repeatability

Film instability for a 610 x 508 mm (24" x 20") film size

- 11 μm (0.4 mil) for a 1°C variation
- 7 μm (0.3 mil) for a 1% humidity variation

#### 1 Raster Image Processor



#### QUEUE MANAGER USER INTERFACE

the most efficient tool to organize your work flow

#### TRUE MULTIPLE SIZE AUTOLOADER

AUTOMATIC FILM COUNTER  
Keep accurate track of number of film sheets inside the magazine

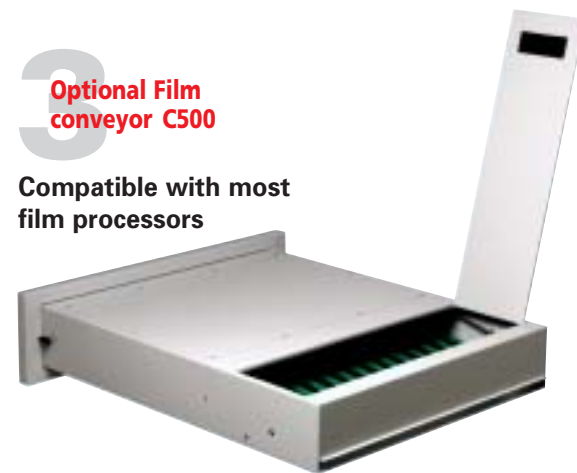
#### 2 Integrated autoloader



#### TOUCH SCREEN

#### 3 Optional Film conveyor C500

Compatible with most film processors



P R E C I S I O N

# PRELIMINARY Specifications

		RP808 <sub>+</sub> ST	RP812 <sub>+</sub> ST
<b>Exposing unit</b>	Max. Exposure area	1422 x 864 mm (56" x 34")	●
	Compatible film lengths	26", 30", 32", 36", 38", 42", 48", 54" and 56"	●
	Compatible film widths	Any width larger than 508 mm (20") up to 864 mm (34")	●
	Film thickness	0.18 mm (7 mils)	●
	Film holding	By vacuum	●
	Drum speed	Variable, up to 65 RPM	●
	Exposure device	One 256 beam STH head with light intensity equalization	●
	Light wavelength	Monochromatic red light, 647 nm	●
	Drum position control	Through high resolution encoder	●
<b>Raster Image Processor</b>	Type	Built-in, provides "on-the-fly" rasterization Based on Windows XP and First EIE's MPS	●
	Data input formats	RS274D, RS274X, EIE RPL and DPF	●
	Optional input formats	TIFF, PACKBITS, Image 5000, ODB++ Via third party software: HPGL, DXF	●
	Network compatibility	NetBEUI, TCP-IP	●
<b>User interface</b>	Queue Manager Software supporting 30 plot queues. Each one can be setup with more than 15 different plot parameters	●	●
<b>Environment monitoring</b>	Temperature and humidity recorded for each plot	●	●
<b>Single size integrated autoloader</b>	Compatible film lengths	26", 30", 32", 36", 38", 42", 48", 54" and 56"	●
	Compatible film widths	Any width larger than 508 mm (20") up to 864 mm (34")	●
	Film magazine	Up to 50 films with automatic film counter	●
	Load / unload cycle	50 / 40 sec. for maximum film size	●
	Daylight operation	Yes, except during film refill and removal	●
<b>Size and weight</b>	Length x Width x Height	1600 x 1200 x 1700 mm (62" x 47" x 67")	●
	Weight	650 kg (1450 lbs) including autoloader	●
<b>Operating conditions</b>	Temperature	20 ± 2° C	●
	Relative humidity	45% ± 3%	●
	Power requirements	230 VAC ± 10%, 1400 W including vacuum pump	●
<b>Optional Film conveyor C800</b>	Compatibility	Compatible with most film processors	●
	Length x Width x Height	1676 x 915 x 140 mm (66" x 36" x 5.5")	●
	Weight	80 kg (178 Lbs)	●
<b>Autoloader</b>	Yes	●	●
<b>Spot size</b>	12.7 µm (0.5 mil)	●	
	8.5 µm (0.33 mil)		●
<b>Selectable resolutions</b>	2000, 4000, 6000 dpi and 8000 dpi	●	
	3000, 6000, 9000 dpi and 12000 dpi		●
<b>Carriage position control</b>	Through Linear glass scale	●	●
<b>Exposure speed (For a 54" x 26" plot)</b>	Minutes at 2000 dpi	4,2	
	Minutes at 3000 dpi		5,2
	Minutes at 4000 dpi	7,0	
	Minutes at 6000 dpi	9,5	9,5
	Minutes at 8000 dpi	12,5	
	Minutes at 9000 dpi		16,0
	Minutes at 12000 dpi		29,5
<b>Overall accuracy</b>	± 25 µm (± 1.0 mil)	●	
	± 20 µm (± 0.8 mil)		●
<b>Repeatability</b>	± 5 µm (± 0.2 mil)	●	●
<b>Minimum line width</b>	50 µm (2 mils) at 2000 dpi	●	
	34 µm (1.33 mil) at 3000 dpi		●
	25 µm (1 mil) above 4000 dpi	●	
	17 µm (0.67 mil) at 12000 dpi		●
<b>Line width variation</b>	Less than 4 µm peak to peak	●	●
	About 3 µm peak to peak above 6000 dpi	●	●
	About 2 µm peak to peak at 12000 dpi		●

METRIC RESOLUTIONS AVAILABLE ON REQUEST - SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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# First EIE SA

## The new RP200+SST line of photoplotters

### GENERAL Specifications

		RP216+SST RP217+SST	RP224+SST RP225+SST	
<b>Exposing unit</b>	Max. Exposure area	660 x 520 mm (26" x 20,5")		
	Compatible film lengths	12", 18", 20", 24", 25.5" and 26"		
	Compatible film widths	Any width larger than 300 mm (12") up to 520 mm (20,5")		
	Film thickness	0.18 mm (7 mils)		
	Film holding	By vacuum		
	Drum speed	Variable, up to 130 RPM		
	Exposure device	One 512 beam SDH head with light intensity equalization		
	Light wavelength	Monochromatic red light, 647 nm		
Position control	Through high resolution encoder & Linear Glass Scale			
<b>Raster Image Processor</b>	Type	Built-in, provides "on-the-fly" rasterization Based on Windows XP and First EIE's MPS		
	Data input formats	RS274D, RS274X, EIE RPL and DPF		
	Optional input formats	ODB++, TIFF, PACKBITS, Image 5000. Via third party software: HPGL, DXF		
	Network compatibility	NetBEUI, TCP-IP		
<b>User interface</b>	Queue Manager Software supporting 30 plot queues. Each one can be setup with more than 15 different plot parameters			
<b>Environment monitoring</b>	Temperature and humidity recorded for each plot			
<b>Integrated autoloader</b>	Compatible film lengths	12", 18", 20", 24", 25.5" and 26"		
	Compatible film widths	Any width larger than 300 mm (12") up to 520 mm (20,5")		
	Film magazine	Up to 150 films with automatic film counter		
	Load / unload cycle	25 / 20 sec. for maximum film size		
	Daylight operation	Yes, except during film refill and removal		
<b>Size and weight</b>	Length x Width x Height	1150 x 650 x 1050 mm (45.3" x 25.6" x 41.3")		
	Weight	365 kg (825 lbs) including autoloader		
<b>Operating conditions</b>	Temperature	20 ± 2° C		
	Relative humidity	45% ± 3%		
	Power requirements	230 VAC ± 10%, 1400 W including vacuum pump		
<b>Optional Film conveyor C200</b>	Compatibility	Compatible with most film processors		
	Length x Width x Height	850 x 570 x 120 mm (33.5" x 22.4" x 4.7")		
	Weight	33 kg (75 Lbs)		
<b>Autoloader</b>	Yes	●	●	
<b>Spot size</b>	6 µm (0,24 mil)	●		
	4 µm (0,16 mil)		●	
<b>Selectable resolutions</b>	4000, 8000, 12000 and 16000 dpi	●		
	6µ, 3µ, 2µ and 1,5µ	●		
	6000, 12000, 18000 dpi and 24000 dpi		●	
	4µ, 2µ, 1.33µ and 1µ		●	
<b>Exposure speed</b> (For a 24" x 20" plot)	<b>FOR IMPERIAL MODE</b>		<b>RP216+SST</b>	<b>RP224+SST</b>
	Minutes at 4000 dpi		1,6	
	Minutes at 6000 dpi			2,0
	Minutes at 8000 dpi		2,4	
	Minutes at 12000 dpi		5,4	5,4
	Minutes at 16000 dpi		9,3	
	Minutes at 18000 dpi			11,9
	Minutes at 24000 dpi			21,6
<b>FOR METRIC MODE</b>		<b>RP217+SST</b>	<b>RP225+SST</b>	
Minutes at 6µm		1,7		
Minutes at 4µm			2,1	
Minutes at 3µm		2,5		
Minutes at 2µm		6,0	6,0	
Minutes at 1,5µm		10,5		
Minutes at 1.33 µm			13,5	
Minutes at 1 µm			24,2	
<b>Overall accuracy</b>	± 10 µm (± 0.4 mil)	●	●	
<b>Repeatability</b>	± 3 µm (± 0.12 mil)	●	●	
<b>Minimum line width</b>	25 µm (1 mil) at 4 µm (4000 dpi)	●		
	17 µm (0.67 mil) at 3 µm (6000 dpi)		●	
	12 µm (0,47 mil) at 1,5 µm (16000 dpi)	●		
	8 µm (0,3 mil) at 1 µm (24000 dpi)		●	
<b>Line width variation</b>	Less than 3 µm peak to peak below 12000 dpi	●	●	
	About 2 µm peak to peak at 12000 dpi and above	●	●	

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# First EIE SA

## The new RP300+SST line of photoplotters

### GENERAL Specifications

		RP316+SST RP317+SST	RP324+SST RP325+SST
<b>Exposing unit</b>	Max. Exposure area	914 x 660 mm (36" x 26")	
	Compatible film lengths	18", 20", 24", 25,5", 26", 28", 30", 32" and 36"	
	Compatible film widths	Any width larger than 300 mm (12") up to 660 mm (26")	
	Film thickness	0.18 mm (7 mils)	
	Film holding	By vacuum	
	Drum speed	Variable, up to 100 RPM	
	Exposure device	One 512 beam STH head with light intensity equalization	
	Light wavelength	Monochromatic red light, 647 nm	
Position control	Through high resolution encoder & Linear Glass Scale		
<b>Raster Image Processor</b>	Type	Built-in, provides "on-the-fly" rasterization Based on Windows XP and First EIE's MPS	
	Data input formats	RS274D, RS274X, EIE RPL and DPF	
	Optional input formats	ODB++, TIFF, PACKBITS, Image 5000. Via third part software: HPGL, DXF	
	Network compatibility	NetBEUI, TCP-IP	
<b>User interface</b>	Queue Manager Software supporting 30 plot queues. Each one can be setup with more than 15 different plot parameters		
<b>Environment monitoring</b>	Temperature and humidity recorded for each plot		
<b>Single size integrated autoloader</b>	Compatible film lengths	18", 20", 24", 25,5", 26", 28", 30", 32" and 36"	
	Film magazine	Up to 100 films	
<b>Dual size integrated autoloader</b>	Compatible film lengths	1° tray	18", 20", 24", 25,5", 26", 28", 30", 32" and 36"
		2° tray	18", 20", 24", 25,5" and 26"
	Film magazine	Up to 50 films per each tray	
	Compatible film widths	Any width larger than 300 mm (12") up to 660 mm (26")	
	Load / unload cycle	35 / 25 sec. for maximum film size	
Daylight operation	Yes, except during film refill and removal		
<b>Size and weight</b>	Length x Width x Height	11330 x 750 x 1400 mm (52,4" x 29,5" x 55,1)	
	Weight	520kg (1172 lbs) including autoloader	
<b>Operating conditions</b>	Temperature	20 ± 2° C	
	Relative humidity	45% ± 3%	
	Power requirements	230 VAC ± 10%, 1400 W including vacuum pump	
<b>Optional Film conveyor C300B</b>	Compatibility	Compatible with most film processors	
	Length x Width x Height	880 x 697 x 140 mm (34,6" x 27,5" x 5,5")	
	Weight	36 kg (81 Lbs)	
<b>Autoloader</b>	Yes		
<b>Spot size</b>	6 µm (0,24 mil)		
	4 µm (0,16 mil)		
<b>Selectable resolutions</b>	4000, 8000, 12000 and 16000 dpi		
	6µ, 3µ, 2µ and 1,5µ		
	6000, 12000, 18000 dpi and 24000 dpi		
	4µ, 2µ, 1.33µ and 1µ		
<b>Exposure speed</b> (For a 24" x 20" plot)	<b>FOR IMPERIAL MODE</b>		
	Minutes at 4000 dpi	RP316+SST	RP324+SST
	Minutes at 6000 dpi	2,1	
	Minutes at 8000 dpi		2,6
	Minutes at 12000 dpi	3,2	
	Minutes at 16000 dpi	7,2	7,2
	Minutes at 18000 dpi	12,4	
	Minutes at 24000 dpi		15,9
			28,8
<b>FOR METRIC MODE</b>			
Minutes at 6µm	RP317+SST	RP325+SST	
Minutes at 4µm	2,2		
Minutes at 3µm		2,8	
Minutes at 2µm	3,4		
Minutes at 1,5µm	8,0	8,0	
Minutes at 1.33 µm	14,0		
Minutes at 1 µm		18,0	
			32,3
<b>Overall accuracy</b>	± 10 µm (± 0.4 mil)		
<b>Repeatability</b>	± 3 µm (± 0.12 mil)		
<b>Minimum line width</b>	25 µm (1 mil) at 4 µm (4000 dpi)		
	17 µm (0.67 mil) at 3 µm (6000 dpi)		
	12 µm (0,47 mil) at 1,5 µm (16000 dpi)		
	8 µm (0,3 mil) at 1 µm (24000 dpi)		
<b>Line width variation</b>	Less than 3 µm peak to peak below 12000 dpi		
	About 2 µm peak to peak at 12000 dpi and above		

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## The new RP500+SST line of photoplotters

### GENERAL Specifications

		RP516+SST RP517+SST	RP524+SST RP525+SST	
<b>Exposing unit</b>	Max. Exposure area	810 x 710 mm (32" x 28")		
	Compatible film lengths	18", 20", 24", 25.5", 26", 28", 30" and 32"		
	Compatible film widths	Any width larger than 300 mm (12") up to 710 mm (28")		
	Film thickness	0.18 mm (7 mils)		
	Film holding	By vacuum		
	Drum speed	Variable, up to 110 RPM		
	Exposure device	One 512 beam STH head with light intensity equalization		
	Light wavelength	Monochromatic red light, 647 nm		
Position control	Through high resolution encoder & Linear Glass Scale			
<b>Raster Image Processor</b>	Type	Built-in, provides "on-the-fly" rasterization Based on Windows XP and First EIE's MPS		
	Data input formats	RS274D, RS274X, EIE RPL and DPF		
	Optional input formats	ODB++, TIFF, PACKBITS, Image 5000. Via third part software: HPGL, DXF		
	Network compatibility	NetBEUI, TCP-IP		
<b>User interface</b>	Queue Manager Software supporting 30 plot queues. Each one can be setup with more than 15 different plot parameters			
<b>Environment monitoring</b>	Temperature and humidity recorded for each plot			
<b>Single size integrated autoloader</b>	Compatible film lengths	18", 20", 24", 25.5", 26", 28", 30" and 32"		
	Compatible film widths	Any width larger than 300 mm (12") up to 710 mm (28")		
	Film magazine	Up to 100 films		
	Load / unload cycle	30 / 25 sec. for maximum film size		
<b>Dual size integrated autoloader</b>	Compatible film lengths	1° tray 18", 20", 24", 25.5", 26", 28", 30" and 32" 2° tray 18", 20", 24", 25.5" and 26"	OPTION	
	Compatible film widths	Any width larger than 457 mm (18") up to 710 mm (28")		
	Film magazine	150 films per each tray		
	Load / unload cycle	60 sec. for maximum film size		
	Daylight operation	Yes, except during film refill and removal		
<b>Size and weight</b>	Length x Width x Height	1390 x 745 x 1400 mm (54.7" x 29.3" x 47.8")		
	Weight	450kg (1000 lbs) including autoloader		
<b>Operating conditions</b>	Temperature	20 ± 2° C		
	Relative humidity	45% ± 3%		
	Power requirements	230 VAC ± 10%, 1400 W including vacuum pump		
<b>Optional Film conveyor C500</b>	Compatibility	Compatible with most film processors		
	Length x Width x Height	880 x 760 x 140 mm (34.6" x 29.9" x 5.5")		
	Weight	36 kg (81 Lbs)		
<b>Autoloader</b>	Yes	●	●	
<b>Spot size</b>	6 µm (0,24 mil)	●		
	4 µm (0,16 mil)		●	
<b>Selectable resolutions</b>	4000, 8000, 12000 and 16000 dpi	●		
	6µ, 3µ, 2µ and 1,5µ	●		
	6000, 12000, 18000 dpi and 24000 dpi		●	
	4µ, 2µ, 1.33µ and 1µ		●	
<b>Exposure speed (For a 24" x 20" plot)</b>	<b>FOR IMPERIAL MODE</b>		RP516+SST	RP524+SST
	Minutes at 4000 dpi		1,8	
	Minutes at 6000 dpi			2,3
	Minutes at 8000 dpi		2,9	
	Minutes at 12000 dpi		6,6	6,6
	Minutes at 16000 dpi		11,3	
	Minutes at 18000 dpi			14,4
	Minutes at 24000 dpi			26,2
<b>FOR METRIC MODE</b>		RP517+SST	RP525+SST	
Minutes at 6µm		1,9		
Minutes at 4µm			2,4	
Minutes at 3µm		3,1		
Minutes at 2µm		7,3	7,3	
Minutes at 1.5µm		12,7		
Minutes at 1.33 µm			16,4	
Minutes at 1 µm			29,3	
<b>Overall accuracy</b>	± 10 µm (± 0.4 mil)	●	●	
<b>Repeatability</b>	± 3 µm (± 0.12 mil)	●	●	
<b>Minimum line width</b>	25 µm (1 mil) at 4 µm (4000 dpi)	●		
	17 µm (0.67 mil) at 3 µm (6000 dpi)		●	
	12 µm (0,47 mil) at 1,5 µm (16000 dpi)	●		
	8 µm (0,3 mil) at 1 µm (24000 dpi)		●	
<b>Line width variation</b>	Less than 3 µm peak to peak below 12000 dpi About 2 µm peak to peak at 12000 dpi and above	●	●	

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