

*Stingray® imagesetters give you the power to respond to customer expectations for higher quality and greater product flexibility*

## Stingray Imagesetters



Stingray offers the most cost-effective and compact solution on the market for 8-page imposed film or polyester plate production. With its low entry price point for high-quality imaging, automated punching and full A1 format, the Stingray 63 is the natural selection for commercial printers with 8-up press capability, or with plans to move to larger format presses. For smaller press users, the Stingray 52 or Stingray 46 cover 4-page imaging requirements with the same quality, flexibility and value.

**Dramatic low price** - Stingray imagesetters combine high performance with low cost of ownership. Every feature has been designed for user convenience including direct connection to a suitable processor and simple integration into front-end prepress systems.



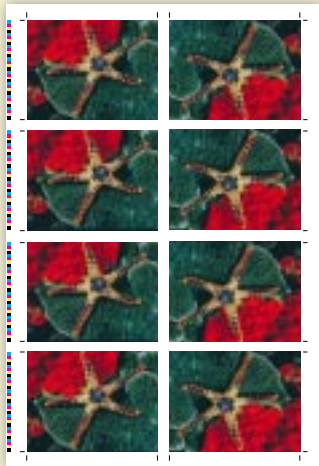
**Quality** - A comprehensive head and tail punching system and advanced imaging technology deliver high-end performance. This provides high repeatability, razor-sharp dots, and resolutions for job output up to 200 line screen with total confidence.

**Flexibility** - Stingrays image film, paper or polyester plates, providing maximum flexibility in media choice to suit job specification and budget. Stingrays also have a choice of high speed Mac or PC software RIPs to adapt to your production requirements.

**Reliability** - Stingray imagesetters are built to satisfy your customer requirements on time, every time. Innovative design and quality manufacture deliver the reliability demanded by commercial printers, job after job.



# Stingray Imagesetters



*The Stingray breaks new ground in performance for the price, allowing printers to satisfy the most demanding clients without a major investment. Stingrays are the best value imagesetters for the commercial printing market.*

## Features & Benefits

### Formats

- Stingray 63 - 8-page impositions or poster pages including color bars and printer's marks - max width 63.5 cm (25.0")

- Stingray 52 - 4-page signatures - max width 52.0 cm (20.5")
- Stingray 46 - 4-page impositions - max width 46.0 cm (18.1")

### High quality imaging

- Internal head and tail punches - eight industry standards or custom configurations available
- Repeatability within 25 microns (0.001")

### Multiple resolutions

- Selectable from 1000 up to 3556 dpi to cover all job requirements

### Media choices

- Film, paper or polyester plate to suit job and cost requirements

### Reliability

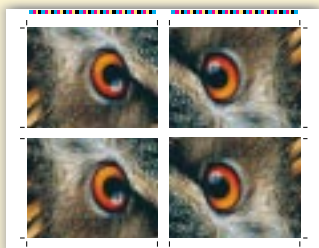
- Designed and manufactured to ISO 9001 standards
- Built for intensive use day after day

### Productivity

- High speed imaging
- Simultaneous image, buffer and process
- Automated punching

### Options

- Optional cut-to-size feature on Stingray 46



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**ECRM® Imaging Systems**

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All ECRM products carry the CE mark.  
All products are CSA & CSA/NRTL certified.  
Class 1 Laser Products.

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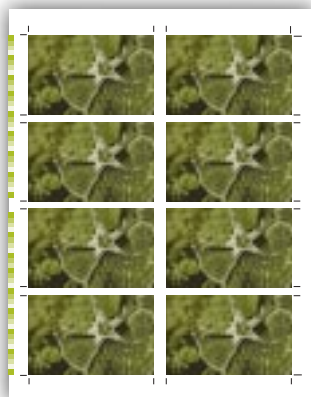
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## Stingray 52 & 63 Specifications



*Stingrays offer the most cost-effective solution on the market for imposed film or polyester plate production. Stingray 63 is the natural selection for commercial printers with 8-up press capability. For smaller press users, the Stingray 52 or Stingray 46 cover 4-page imaging requirements with the same quality, flexibility and value*

**ECRM**<sup>®</sup>  
Imaging Systems

### Imaging

#### Maximum Recording Width

Stingray 52: 20.5" (52.1 cm)

Stingray 63: 25.0" (63.5 cm)

#### Recording Source

One 10 mW visible red laser diode  
(670 nm recording wavelength)

#### Spot Size

10-35 microns (resolution dependent)  
measured at the film plane

#### Resolutions

12 resolutions from 1000 dpi to 3556  
dpi (394 dpcm to 1400 dpcm)

#### Maximum Line Screen

200 lpi (78.7 lpcm)

#### Recording Speeds

1000 dpi - 32.00"/min, 81.28 cm/min  
1016 dpi - 31.50"/min, 80.01 cm/min  
1200 dpi - 26.67"/min, 67.74 cm/min  
1270 dpi - 25.20"/min, 64.01 cm/min  
1446 dpi - 22.13"/min, 56.21 cm/min  
1524 dpi - 19.81"/min, 50.32 cm/min  
1800 dpi - 14.34"/min, 36.42 cm/min  
2032 dpi - 11.25"/min, 28.58 cm/min  
2400 dpi - 8.03"/min, 20.40 cm/min  
2540 dpi - 7.16"/min, 18.19 cm/min  
3048 dpi - 5.00"/min, 12.70 cm/min  
3556 dpi - 3.69"/min, 9.37 cm/min

#### Repeatability

0.001" (0.25 mm) typical over four  
consecutive 20" x 28" (51 x 71 cm)  
separations on film. May vary  
according to media, media packaging  
and processing conditions

### Media

#### Types

Visible red sensitive film, polyester  
plate or paper material



#### Thickness

0.004" to 0.008" (0.1 to 0.2 mm)

#### Configuration

Emulsion in, 2" (50 mm) diameter  
core, breakaway taped to core

#### Cassette Capacity

Up to 400' (120 m) of 0.004" material,  
5.7" (145 mm) maximum roll  
diameter

#### Media Widths

25.0" (63.5 cm)  
24.6" (62.5 cm)  
24.0" (61.0 cm)  
23.5" (59.7 cm)  
23.0" (58.4 cm)  
22.5" (57.2 cm)  
22.0" (56.0 cm)  
21.7" (55.1 cm)  
21.6" (54.9 cm)  
20.9" (53.0 cm)  
20.5" (52.1 cm)  
20.1" (51.0 cm)  
20.0" (50.8 cm)  
19.6" (49.8 cm)  
18.6" (47.2 cm)  
18.2" (46.2 cm)  
18.1" (46.0 cm)  
18.0" (45.7 cm)  
17.7" (45.0 cm)  
16.0" (30.6 cm)  
14.0" (35.6 cm)

### Processing

Online processing required.  
Processor interface and buffer  
included as standard. Emergency  
take-up cassette optional

#### Registration Punching

Choice of one of eight industry  
standard head and tail  
configurations or custom  
(up to 5 punches per head and tail)

### Physical & Environmental

#### Dimensions

39.0"W x 35"D x 44"H  
(99 cm x 89 cm x 112 cm)

#### Weight

810 lbs (368 kg)

#### Heat Dissipation

1500 BTU/hour maximum

#### Power Requirements

100/115/230 V ( $\pm 10\%$ );  
1.7/1.5/1.0 amps;  
50/60 Hz, single phase

#### Operating Conditions

62° F - 86°F; 17°C - 30°C relative  
humidity 45-65% non-condensing;  
relative humidity outside of this  
range may affect imagesetter  
performance

## Stingray 46 Specification

### Imaging

#### Maximum Recording Width

Stingray 46: 18.16" (46.1 cm)

#### Recording Source

One 10 mW visible red laser diode  
(670 nm recording wavelength)

#### Spot Size

10-35 microns (resolution dependent)  
measured at the film plane

#### Resolutions

12 resolutions from 1000 dpi to 3556  
dpi (394 dpcm to 1400 dpcm)

#### Maximum Line Screen

200 lpi (78.7 lpcm)

#### Recording Speeds

1000 dpi - 21.00"/min, 53.34 cm/min  
1016 dpi - 20.60"/min, 52.32 cm/min  
1200 dpi - 17.40"/min, 44.12 cm/min  
1270 dpi - 16.60"/min, 42.16 cm/min  
1446 dpi - 14.60"/min, 27.08 cm/min  
1524 dpi - 13.80"/min, 35.05 cm/min  
1800 dpi - 11.60"/min, 29.46 cm/min  
2032 dpi - 10.40"/min, 26.42 cm/min  
2400 dpi - 8.80"/min, 22.35 cm/min

2540 dpi - 8.20"/min, 20.83 cm/min  
3048 dpi - 6.88"/min, 17.48 cm/min  
3556 dpi - 5.29"/min, 13.44 cm/min

#### Repeatability

0.001" (0.025 mm) typical over four  
consecutive separations on film.  
May vary according to media, media  
packaging and processing  
conditions

### Media

#### Types

Visible red sensitive film, polyester  
plate or paper material

#### Thickness

0.004" to 0.008" (0.1- 0.2 mm)

#### Configuration

Emulsion in, 2" (50 mm) diameter  
core, breakaway taped to core

#### Cassette Capacity

Up to 400' (120 m) of 0.004"  
material, 5.7" (145 mm) maximum  
roll diameter

### Media Widths

18.1" (46.0 cm)  
18.0" (45.7 cm)  
17.7" (45.0 cm)  
17.3" (44.0 cm)  
16.9" (43.0 cm)  
16.4" (41.6 cm)  
16.0" (40.6 cm)  
15.8" (40.0 cm)  
15.4" (39.0 cm)  
15.0" (38.0 cm)  
14.5" (36.9 cm)  
14.0" (35.6 cm)  
13.3" (33.8 cm)  
13.0" (33.0 cm)  
12.5" (31.8 cm)  
12.2" (31.0 cm)  
12.0" (30.5 cm)  
11.8" (30.0 cm)

### Processing

Online processing recommended.  
Processor interface and buffer  
included as standard. Take-up  
cassette optional

### Registration Punching

Choice of one of eight industry  
standard head and tail  
configurations or custom (up to 5  
punches per head and tail)

### Upgrades

Cut-to-size - factory option  
(includes speed upgrade to 32"/  
min. (81.28 cm/min.) at 1000 dpi)

### Physical & Environmental

#### Dimensions

32.0"W x 36.0"D x 44.0"H  
(81 cm x 89 cm x 112 cm)

#### Weight

350 lbs (156 kg)

#### Heat Dissipation

1000 BTU/hour maximum

#### Power Requirements

100/115/230 V ( $\pm 10\%$ );  
1.7/1.5/1.0 amps;  
50/60 Hz, single phase

#### Operating Conditions

62°F - 86°F; 17°C- 30°C relative  
humidity 45-65% non-condensing;  
relative humidity outside of this  
range may affect imagesetter  
performance

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