

Renaissance Renaissance II Renaissance II Plus

copydot scanning systems



- accurate reproduction of halftone dots
- fully automatic registration for fast, accurate digitizations
- streamlined workflow and parallel processes for increased productivity
- productive, easy to learn interface

Fast, high-quality digitizing of halftone film separations

Renaissance copydot scanning systems quickly repurpose color-separated film into digital form for integration in digital prepress. In a streamlined process, they convert halftone film separations into digital file sets, making it simple to integrate supplied or archived film, or reflective copy. Registration is automatic, and no pre-scan alignment is required. Advanced Renaissance scanning technology produces an exact dot-for-dot replica of the original film, without introducing moiré or artifacts.

The three Renaissance models offer exceptional Renaissance image quality, and share the same system architecture, scanning software and general features. They differ in the size of original accepted, and in productivity.

Rapidly convert film separations into digital form

Renaissance scanning systems are the practical way to digitize screened film for re-use in a CTP workflow. Powerful, dedicated processors quickly convert large halftone film at the highest line screens into digital form, without moiré or other artifacts.

Parallel processes, automation, and professional editing software ensure quality and productivity

Renaissance systems are fast and easy to operate, and built for high-volume production. Separations are automatically aligned and registered. Templates save time for frequently-used jobs, and bitmap editing tools allow quick cleanup of defects in the original film. A single scan can be used to generate several output files, each one for a different purpose. Tasks run as parallel processes, allowing a single operator to scan, verify, register, and output several jobs simultaneously.

Harmony™ color calibration software performs precise color matching

Harmony software, included with Renaissance II and Renaissance II Plus scanners, creates tonal calibration curve data to ensure a close match between proof and press sheet. Harmony calibration curves are compatible with many Creo CTP and proofing devices.



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Renaissance, Renaissance II & II Plus

copydot scanning systems

Integrity software automatically registers, crops, aligns images

Integrity software provides a suite of powerful tools to improve image quality and increase operator efficiency. It searches the scanned image data for registration and crop marks, and then electronically aligns, crops and registers the separations without any operator intervention. You can instantly verify that registration, cropping and alignment are correct, adjust rotation and X-Y position, and improve on the original film with retouching tools.

Optional Copydot Toolkit software adds performance and flexibility

The optional Copydot Toolkit package is used to view, edit, descreen, resample, and scale copydot files. It adds flexibility, time savings and productivity to any copydot workflow. It also allows you to integrate archived copydot or 1-bit TIFF files into your workflow.

Choose the Renaissance model that meets your throughput and format requirements

All Renaissance models are composed of three components: the Integrity application for registration and bitmap editing, the Console application for setting up and controlling scans, and the scanning engine and processor:

- the Renaissance provides the highest-speed scanning of originals up to 813 x 1118 mm (32 x 44 in), and includes separate workstations for the Integrity and Console applications.
- the Renaissance II Plus is a compact, high-speed scanner for originals up to 325 x 508 mm (12.8 x 20 in), and includes one workstation for both Integrity and Console applications.
- the Renaissance II offers the features of the Renaissance II Plus, with lower processing speed and less drive capacity. It is field upgradable to the Renaissance II Plus.

Additional Integrity application workstations are available, and for the Renaissance II/II Plus, an external drum and mounting station may be added to increase throughput.

Renaissance, Renaissance II & II Plus Product Specifications

	Renaissance II	Renaissance II Plus	Renaissance
General Specifications			
Technology	Drum scanner multi-channel PMT image transfer		Drum scanner CCD Array
Throughput Quality: Normal Tone reproduction: 2-98% Output resolution: 480-2400 dpi	20 separations per hour A4 page (8.5 x 11 in)	28 separations per hour A4 page (8.5 x 11 in)	N/A
Quality: High Tone reproduction: 1.5-98.5% Output resolution: 640-3200 dpi	16 (page) separations per hour A4 page (8.5 x 11 in)	23 (page) separations per hour A4 page (8.5 x 11 in)	N/A
Quality: Extra High Tone reproduction: 1-99% Output resolution: 800-4000 dpi	12 (page) separations per hour A4 page (8.5 x 11 in)	19 (page) separations per hour A4 page (8.5 x 11 in)	48 (page) separations per hour A4 page (8.5 x 11 in) 6 (film flat) separations per hour 813 x 1118mm (32 x 44 in) film flat
Original types	Film: color-separated positive or negative Reflective: black and white Originals can contain text, line work, halftone images, process color, multiple blacks and spot color separations		
Maximum size of original	Internal drum: 325x 508 mm (12.8 x 20 in) scanning area originals up to 325 x 519 mm (14 x 20.4 in) may be mounted Optional external drum: 325x 521 mm (12.8 x 20.5 in) scanning area originals up to 325 x 519 mm (14.2 x 21 in) may be mounted		813 x 1118 mm (32 x 44 in) max
Output files	Bi-level image Resolution: 960 to 4000 dpi File types: Multi-file DCS level 1 or 2, single-file DCS 2, PS Image (for APR applications), OPI link, EPS, tiled or stripped TIFF, TIFF/IT - LW/P1, Brisque LW Handshake, PDF composite, TIFF composite, EPS composite, Brisque NLW Compression: G3, G4, packbits, or no compression (G3 not supported for stripped TIFF)		
Workflow connectivity	Creo Prinergy®, Brisque™, iMPAct workflow systems Open third-party connectivity		
Imaging Specifications			
Auto-register	Typically better than 1/4 dot row at 150 lpi and rotation at ±7.0°		Typically better than 1/4 dot row at 150 lpi
Scaling	uniform scaling: 0.4 to 2.0 anamorphic scaling: ±20%		Up to 50% enlargement or reduction
Dot gain	Up to 8% dot gain or loss control for each separation (controlled using calibration curves in Harmony software)		Up to 10% dot gain or loss control
Breakout	Any number of sub-images may be broken out, individually registered and output		
Bitmap editing	Pencil, eraser, box, polygon and halftone autoclean tools		
Versioning	Multiple output file sets from the same scan		
Physical Specifications			
Size (h x w x d)	1168 x 559 x 787 mm (46 x 22 x 31 in)		1270 x 1830 x 820 mm (50 x 72 x 32 in)
Weight	100 kg (220 lb)		680 kg, 1500 lb

Let's Talk

Contact your Creo representative to learn more about the Renaissance family of scanners, and how they fit into a Creo end-to-end prepress solution.

www.creo.com/scanners

About Creo

Creo Inc. is a global company with key strengths in imaging and software technology. As the leading provider of prepress systems, Creo helps over 25,000 customers worldwide adopt digital production methods which reduce costs, increase print quality and allow

them to serve their customers more efficiently. Based in Vancouver, Canada, Creo employs more than 4,000 people and reported fiscal 2003 revenue of US\$578 million. Creo trades on NASDAQ (CREO) and the TSX (CRE). www.creo.com

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