KODAK 800 Print Manager

DIGITAL FRONT END FOR ROLLFED INKJET PRESSES

Exceptional performance and productivity

The **Kodak** 800 Print Manager is an innovative digital front end designed to drive Kodak's high-speed digital inkjet presses. This powerful solution batches multiple jobs into a single run, and can spool, process and print static or Variable Data Print (VDP) jobs at press-rated speeds of thousands of pages per minute (up to 410 mpm or 1,345 fpm). It is ideal for a wide range of applications including commercial, book, direct mail, transactional, newspaper and packaging printing.

Its high-performance architecture employs an array of multiple process servers. A single process server runs multiple RIP nodes. Custom-made Fusion Imaging boards increase system performance using fewer expensive servers, helping reduce overall cost, system footprint and energy consumption. This architecture, combined with Kodak's advanced processing techniques, maximizes RIP performance while maintaining outstanding output quality.

Ground-breaking VDP technology

The 800 Print Manager is based on a unique VDP-optimized architecture, combining cutting-edge software and hardware, caching of reusable elements, front-to-back balancing and on-the-fly page assembly, for ultra-fast printing. Kodak ensures that efficient VDP files will print at engine speed, and offers file preparation guidance and support to help users maximize productivity when printing VDP jobs.

Business-building color and image quality

With Kodak's color expertise, the 800 Print Manager makes it easy to achieve superb color and image quality right out of the box. An advanced object-oriented color engine offers sophisticated color control options, ICC profile support, object-independent screening options and text enhancement.

Open connectivity, workflow capabilities and ease of use

The 800 Print Manager supports many workflow capabilities, including all industry-standard PDL formats and complex transactional workflows.

It can seamlessly connect via IPDS to your current host environment, or import AFP and resources directly, eliminating the need for an intermediate AFP production server.

The system supports open standards, offering open connectivity through JDF/JMF to all digital print systems. With a standard **Microsoft Windows** operating system and an intuitive user interface, the 800 Print Manager is easy to learn, use and maintain, helping reduce training costs and the potential for errors.

AREAS OF EXCELLENCE:

- Print static or VDP jobs at full-rated press speed
- Rich suite of productivity and workflow tools
- High performance with complex VDP
- Offset-class color and quality
- Transactional printing workflows
- Ease of use
- Open connectivity

The **Kodak** 800 Print Manager delivers a powerful combination of high-value and unique capabilities that can help you improve productivity and expand business opportunities.

Open connectivity and Page Description Languages (PDL) using File Submission Mode

Feature	Benefits
File Submission Mode	Receive jobs from the most commonly used static and variable PDL formats. Print service providers can accept customer files without time-consuming and error-prone transforms.
Drag and Drop	Jobs can be dragged from the desktop/folder and dropped right into the appropriate queue
Local and Remote DFE Workspace	Manage jobs at the press or enable distributed DFE access from remote client workstations (PC and **Macintosh**). Easy-to-use, language localized interface increases productivity with minimal training.
Virtual Printer / Hot Folders	Intelligent workflow setup using a "local job ticket" gives labor-saving automated operation. Job parameters are defined once and automatically reused each time a job is submitted to the virtual printer's hot folder.
JDF/JMF Connectivity	CIP4-compliant Job Definition Format (JDF) enables connectivity to external job sources using job tickets. Job Management Format (JMF) returns valuable information to the controlling server to monitor operation status.
Kodak Unified Workflow Solutions	Kodak's Unified Workflow provides end-to-end solutions. Complementary features between **Kodak Prinergy** Workflow and the 800 Print Manager provide optimized integrations that can uniquely blend offset and digital workflows.
Proofing and Reprint	Export Post-RIP, raster or screened data as a TIFF or PDF. This provides a true representation of the final document for soft-proof validation, hard copy proofing, detailed review of the exact data that will be printed or short run reprints from an offline printer. Export for proofing also supported in IPDS proofing mode.
Job Estimation Tool	Calculate ink usage, paper usage and estimated printing time for every job in advance.
Production Tracking	Production, resource, and event data help analyze productivity, optimize resource utilization and press allocation, monitor preventative maintenance tasks, and provide information for MIS and report applications.

High productivity for increased throughput, reduced down time and greater revenue potential

Feature	Benefits
RIP Choice	Supports both the CPSI and APPE RIPs, which allows for the traditional option (CPSI) to guarantee the same output despite upgrades. It also allows the use of new APPE features including native PDF rendering and transparency, and PDF/VT support.
Snapshots	Enables quicker make-ready for paper changes and job changes. Stores all press controller settings for a particular type of printing.
Job Queue Management	Easy-to-use job flow that best delivers on schedule commitments. Allows the right jobs to be queued together in an efficient order. When a rush job comes in or a reprint is necessary, adjusting queue order is quick and easy.
Job Batching	Batch jobs together to minimize machine downtime due to gaps in data flow. Supports variable length jobs and changing copies while printing.
Job Preflight	Detect errors early in the process—before RIPing. Prevents delays due to missing resources.
Concurrent Processing	Simultaneous job downloading, processing and printing reduces delays.
AFP Direct	Import AFP files directly from the network or any media, enabling seamless flow for AFP files as for any other PDL input.
Gallop Mode — Data Streaming	Printing starts while still processing the data flow by streaming inline elements without storing data in disks. Decreases the dwell time from submission to start of print.
Hardware-Assisted On-the-Fly Processing	Hardware-assisted processing of RTP objects (image, text or graphic) enables many post-RIP processes at hardware speeds. Increases speed using fewer servers, which reduces space, costs, and power usage.
Cached Global VDP Elements	Reusable PDL elements can be cached and shared/reused between print runs, saving spooling time and network overhead.
Built-in Imposition	Provides common setups and adjustments of impositions used in the hardware-assisted imposition engine, boosting productivity by imposing jobs faster and easier. Robust capabilities include Cut & Stack, Step & Repeat and Step & Continue. Includes a unique imposition template builder for creating custom impositions. Enables editing of imposition parameters without the need to re-RIP.
Job Preview • Pre-RIP or Post-RIP (RTP)	Review content using either the original PDL files or from the post-RIP RTP format. Eye-dropper allows for inspection of color recipes.

Powerful color control and optimal image quality

Feature	Benefits
Object-Independent Processing	Object-independent screening and color processing optimizes quality of images, text, and graphics. Can use for best-quality threshold matrix screening for text and graphics, and Error Diffusion for images.
ICC Profiles	Color profiling provides accuracy and consistency in output quality. Supports ICC Version 2 & 4, as well as device link profiles.
Color Calibration	Periodic calibration is recommended to maintain the color press in a known good state. Supported printers from Kodak rely on both hardware and software calibrations to maintain consistent color. Improved color management via the **Kodak ColorFlow** CMM.
Protect RGB and CMYK Colors	Provides consistent and accurate results in matching unique colors such as corporate logos and text, by changing RGB/CMYK input color combinations to specific CMYK output values.
Preserve Pure Colors	Removes stray colors from elements that should be black only, improving quality and saving on ink consumption.
Predefined Color Libraries	Improved accuracy of spot colors through expanded gamut using **Pantone**®, **DIC**, **HKS**, and **Toyo** color systems.
Output Emulation	Makes the output consistent with other devices via profiling of common color spaces. Provides the best possible match to common ICC-based color standards: SWOP, GRACoL, SNAP, FOGRA, Japan Color, etc. (Note: technology difference in many cases prevents exact duplication.)
Color Gradation Tool	Make post-RIP adjustments to color balance, brightness and contrast at the press.
Spot Color Editing	Select from the existing color libraries or make fine adjustments to specific colors. Unique edits can be made and saved for each substrate. Edits can be exported and imported.
Text Enhancement	Enables printing of text elements with either a thin, fine stroke or more traditional richer font rendering. User-selectable options provide flexibility based on quality and readability requirements.

IPDS workflow for data-driven transactional documents, statements and direct mail

Feature	Benefits	
IPDS Mode Operation	Alternative to File Submission Mode sets up a two-way connection supporting AFP Consortium specifications for the Intelligent Printer Data Stream (IPDS). AFP-IS3 compatible.	
Object Container Support	• Data Objects: EPS, JPEG, and Single or Multipage PDF and TIFF • Data Object Fonts: **TrueType**, **OpenType**, Double Byte fonts • Color Management Resources	
Processes All IPDS Data Types	• PTOCA TYPE PT1 Text OBJECT, PTOCA TYPE PT2 Text OBJECT, PTOCA TYPE PT3 Text OBJECT • IMD1 Image OBJECT Bi-Level Image • IOCA FS10 OBJECT Bi-Level Image, IOCA FS11 OBJECT 4, 8 bit Grayscale and 24 bit yCbCr • IOCA FS40 OBJECT, IOCA FS42 OBJECT CMYK 1 bit banded Image • IOCA FS45 OBJECT 32bit CMYK compressed JPEG or LZW • GOCA DR/2V0 Graphic OBJECT Content Architecture • BCOCA BCD1 Barcode OBJECT 1D and 2D Barcodes, dot gain control in BCOCA • CMOCA Color OBJECT source, destination, device-link profiles	
Connection with Common Print Servers	• **InfoPrint** Manager and **Ricoh** Process Director (**Microsoft Windows**, AIX) • **Océ PRISMA** • Other PSF-compatible IPDS print drivers: **Pitney Bowes P/I** Output Manager, **Quadient Inspire**	
Direct Connection to Mainframe Operating Systems supporting TCP/IP	• JES2/JES3 Command Support (Job Entry Subsystem) • PSF (Print Services Facility)	
Color Support	• AFP Consortium Compliance (CMOCA) • Color Spaces (OCA, Highlight, RGB, CIELab, CMYK) • Spot Color Mapping to CMYK percentages	• Grayscale mode for Black-only printers • CMT Color Mapping Table • Supports Device link profiles
Font Support	• **TrueType**, **OpenType** and AFP FOCA	• Double Byte/CID support

KODAK 800 Print Manager Technical Specifications

Printer support (speed, resolution)	• **Kodak Prosper** 1000, 5000, 6000C, 6000P and 7000 Turbo Presses — Up to 410 mpm (1,345 fpm) @ 85-100 lpi • **Kodak Prosper** 6000S Press — Up to 300 mpm (1,000 fpm) @ 200 lpi *For more information about printer support, contact your local representative from Kodak.*
Input data formats (standard)	• PDF — Kodak-enhanced RIP based on Adobe's PDFL11 SDK; supports PDF transparency; accepts data from PDF 1.2 thru 1.7, PDF/X-1a, PDF/X-3, PDF/X-4, PDF/X-5 and PDF/VT • **Adobe PostScript** (Level 1, 2, or 3) and EPS • PPML Option: PPML/GA v2.2 and PPML/VDX • VPS
Input data formats (optional add-ons)	• AFP (MO:DCA) • IPDS Connectivity
Software tools (included)	• Color Gradation Tool • Substrate Manager • Spot Color Editor • Imposition Builder • Resource Manager • Job Preview Tool • JDF/JMF Connectivity including Job Ticket Creator Software • **Adobe Acrobat** 11 Software • **Enfocus PitStop** Software
Support options (sold separately)	• Color Toolkit Plus featuring **Kodak ColorFlow** technology • Ink Estimator
Security	Uses standard **Microsoft Windows** operating systems that support the latest anti-virus software, protecting data and minimizing downtime. OS updates and hot fixes are available immediately, making it easy and cost-effective to keep the system up-to-date and secure.
Connectivity	• Ethernet, TCP/IP, 1 Gbps, twisted pair (Optional 10G Ethernet Adapter) • **Kodak Prinergy** Workflow • JDF/JMF interface w/**Mueller Martini** Connex for **SigmaLine** digital book finishing • CIP4 compliant JDF v1.4

	Digital Front End	Press Controller

Cabinet physical characteristics	• 22" flat-panel 1080p monitor
	• Height: without monitor - 41" (104.1 cm)
	• Width: top work surface - 28.5" (72.4 cm)
	• Depth: doors closed - 44" (111.8 cm)
	       doors open - 76.5" (191.8 cm)
	• Weight: 630 lbs (286 kg) without monitor
		• 22" flat-panel LCD touch screen monitor
		• Height: without monitor - 41" (104.1 cm)
		• Width: top work surface - 28.5" (72.4 cm)
		• Depth: doors closed - 44" (111.8 cm)
		       doors open - 76.5" (191.8 cm)
		• Weight: 444 lbs (201 kg) without monitor

Cabinet configurations and power consumption	• One cabinet for the Press Controller and DFE control station: 15 amps max, 3.3 amps (typical operating)
	• One cabinet for the DFE, it can contain up to 4 Print Process Servers (PPS):
	   - 1-Server DFE configuration: 15 amps max, 3.9 amps (typical operating)
	   - 2-Server DFE configuration: 15 amps max, 5.9 amps (typical operating)
	   - 4-Server DFE configuration: 15 amps max, 9.8 amps (typical operating)
	• Each process server contains: Dual 6 Core dual threaded **Intel Xeon** 2.6 GHz Processors, 16 GB RAM, Hot swappable RAID 10 with 1 TB system storage and 7.2 TB for image processing, **Microsoft Windows** 7 Embedded OS
	• Control server contains: Dual 6 Core **Intel Xeon** 2.6 GHz Processors, 16 GB RAM, Hot swappable RAID 10 with 6.35 TB job storage, **Microsoft Windows** 7 Embedded OS
	• All cabinets: Voltage / Frequency 200-240 VAC, 50/60 Hz
	• Optional leaf to extend surface work space	

Environmental	• Operating temperature: 60°F–85°F (16°C–30°C) at relative humidity 10%–90% non-condensing or temperature: 85°F–104°F (30°C–40°C) at relative humidity 10%–60% non-condensing • Worldwide agency compliance for safety, EMC, EMI, and RoHS • Optional Air Conditioning Kit	

Efficient VDP files will run at engine-rated speed. Contact Kodak for best practices on efficient file preparation.

LEARN MORE AT GRAPHICS.KODAK.COM

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