

Protocol Document

KODAK Large Format Thermal Printer

EASTMAN KODAK COMPANY

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KODAK LARGE FORMAT THERMAL PRINTER

PROTOCOL DOCUMENT

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March 16, 1988**

APPROVALS

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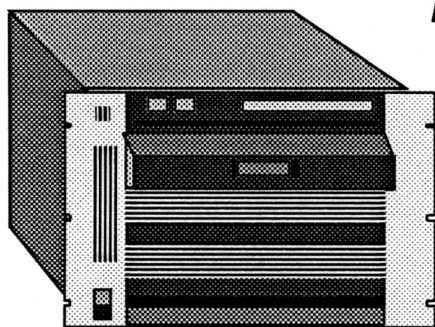
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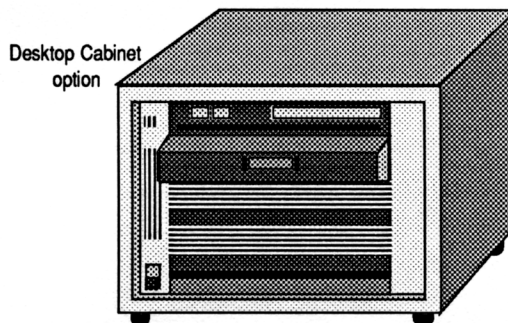
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Protocol Document

KODAK Large Format Thermal Printer



Rack Mount
Version
(Basic Unit)



Desktop Cabinet
option

GENERAL DESCRIPTION

The KODAK Large Format Thermal Printer is a Continuous Tone, Dye Sublimation Transfer Printer that can produce B&W or color prints or transparencies from digital image sources on either 8.5" X 11" or 11" X 11" paper sizes.

SPECIFICATIONS AND GENERAL DATA

tone scale reproduction:	Continuous Tone Color or B&W.
PRINTING METHOD:	Thermal Dye Transfer Printing.
IMAGE SOURCE:	Digital Computer Image File.
DIGITAL INTERFACE:	SCSI or IEEE 488, NOTE: Other digital interfaces may also be accommodated when the market need is identified.
PIXEL DENSITY:	8 pixels/mm.
DIGITAL DATA:	1536 X 2048 Pixel array for 8.5" X 11" page. 2048 X 2048 Pixel array for 11" X 11" page. 256 Digital Values/pixel/color.
IMAGE SIZE:	7.56" X 10.08" on 8.5" X 11" page. 10.08" X 10.08" on 11" X 11" page.
PRINTED PIXEL ASPECT RATIO:	1:1 or 4:3. 4:3 Mode is used to print video images without distortion.
RECEIVER TYPE:	Reflection and Transparency.
RECEIVER SIZES:	8.5" X 11" or 11" X 11"
RECEIVER TRAY CAPACITY:	100 Sheets Maximum.
RECEIVER SALES UNIT CAPACITY:	50 and 100 sheets per sales unit. TBR - S. Botros
NUMBER OF RECEIVER TRAYS	Printer can accept one tray.
DONOR CARTRIDGE CAPACITY:	Color Full Capacity Cartridge = 100 color prints or single pass transparencies, or 50 double pass transparencies or any combination. Color 1/2 Cartridge Capacity also available. TBR - S. Botros B&W Full Capacity Cartridge = 300 B&W Prints or single pass transparencies, or 150 double pass transparencies or any combination. B&W 1/2 Cartridge Capacity also available. TBR - S. Botros
RECEIVER/DONOR PACKAGING:	Donor and Receiver packaged separately.

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FINISHER OPTION:

Matte or Glossy finish option.

PRINTING CYCLE:

1 min. 20 sec for B&W single pass transparency or print.

3.5 min. for single pass color transparency or print.

7 minutes for 2 pass color transparency.

STANDARD BUFFER CONFIGURATION:

**2048 X 2048 X 1 plane
(4 Megabytes)**

Allows image composition and frees up computer while printing B&W images or for each color plane printed. Allows multiple Black & White Prints to be made once the buffer is loaded.

OPTIONAL BUFFER UPGRADE:

**2048 X 2048 X 3 planes
(12 Megabytes)**

Allows image composition, color correction and frees up computer while printing color images. Allows multiple Color Prints to be made once the buffer is loaded.

IMAGE SCALING SELECTIONS:

Emulate: 50 (4X), 75 (2.66X), 100 (2X),
150 (1.33X), 200 (1X), 300 (0.66X) dots/inch.

tone compensation:

User loadable Look up Tables, 2 sets.

EDGE ENHANCEMENT:

User selectable level of edge enhancement (8 levels).

MIRROR IMAGE:

User Selectable.

ANNOTATION:

2 Fixed Fonts, 3 Fixed Sizes.

ROTATION:

90 degree Rotation only.

COLOR CORRECTION:

Color Matching, with 3 plane buffer option.

STYLING:

Rack mount design with tabletop option by installing rack.
mount design into a desktop cabinet.

FRONT PANEL DISPLAY:

Two 40 character/Line LCD's for Status and Errors.

FRONT PANEL BUTTONS:

Power, Cancel, Test Page.

PRINT/TRANSPARENCY BASKET:

External, Capacity 100.

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OVERALL SIZE:	14" High, 17" Wide, 22.5" Deep - rack mount. 15" High, 20" Wide, 24" Deep - table top option.
WEIGHT:	Approximately 70 lbs. for rack mount product. Approximately 75 lbs. for desktop option.
POWER REQUIREMENTS:	100, 120, 220, 240 VAC, $\pm 10\%$, 50/60 Hz., 15 Amp.
POWER CONSUMPTION:	12 Amps max.
AMBIENT TEMPERATURE:	59 to 86 degrees F, 15 to 30 degrees C.
AMBIENT HUMIDITY:	15 to 76%, Relative Humidity.
STANDARDS:	SAFETY: UL478, CSA C22.2 #220-M 1986, IEC-950 EMI: FCC Rules Part 15, Subpart J, Class A; EEC 499 (1982); Post Vfg 1946 (1984), Level B; CISPR-22; DPE VCCI (Japan).
VIDEO INPUT:	Will be accommodated by putting video capture into the host computer. The host computer sends the digital image file to the Large Format Thermal Printer.

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LARGE FORMAT THERMAL PRINTER/MEDIA OPTIONS COSTS

<u>HARDWARE:</u>	<u>UMC</u>	<u>EWQ</u>	<u>TOOLS</u>
PRINTER	\$8,000*	\$6,800K	\$2,000K
3-PLANE BUFFER OPTION	1,300	-	-
<u>MEDIA:</u>	8 1/2 X 11		
COLOR PRINT	.78	4,100K	300K
COLOR TRANSPARENCY	1.43**		
B&W PRINT	.48		
B&W TRANSPARENCY	.53		
	11 X 11		
COLOR PRINT	.84		
COLOR TRANSPARENCY	1.45**		
B&W PRINT	.48		
B&W TRANSPARENCY	.53		

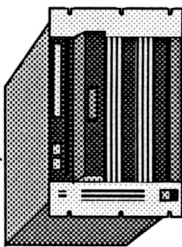
* Average UMC across Interface and Cabinet options.

** Assumes Double Pass

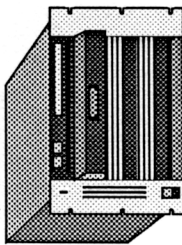
HARDWARE PURCHASE

DECISIONS

RACK MOUNTABLE
LARGE FORMAT PRINTER
w/Glossy Finisher



RACK MOUNTABLE
LARGE FORMAT PRINTER
w/Matte Finisher



BASIC PRINTER CONFIGURATION CHOICES

DIGITAL
INTERFACE

IEEE 488

SCSI

SCSI

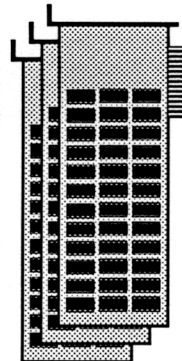
IEEE 488

SCSI

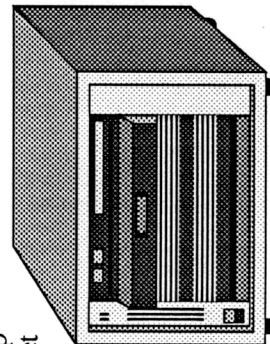
OPTIONAL ENHANCEMENT CHOICES

BUFFER
UPGRADE

12MB
(Two additional Planes,
or 3 Planes Total)



Desktop
Cabinet



DESKTOP
CABINET
OPTION

NOTE: Plan is to stock each of these items and have the dealer, system integrator, or OEM install the desired configuration choices/optional enhancements.

MEDIA PURCHASE DECISIONS

