



Digital Medium Format Photoprinter

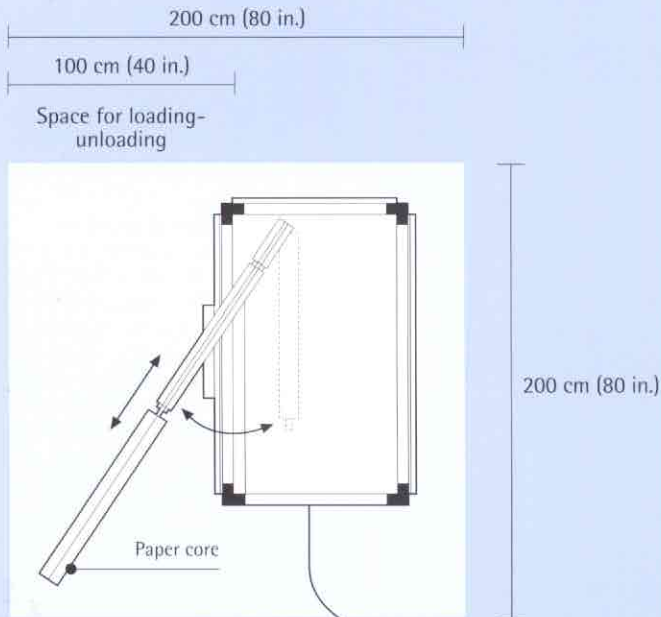
Digitally stored images may be reproduced on photographic paper by various techniques; by Cathode Ray Tubes (CRT) where spot size and thus the resolution limits the image size to be reproduced; by 3-colour lasers which are fast and can reproduce images practically unlimited in size, or by using fibre-optics as in the Durst Epsilon 30. The technology of fibre-optics has the advantage that LEDs have practically an unlimited lifetime - a regular exchange or maintenance as it is the case in the CRT- or laser technology is not necessary.

The light produced by monochrome LEDs „writes” images point by point via fibres and a specially designed optic onto traditional photographic paper producing a „fibreprint”.

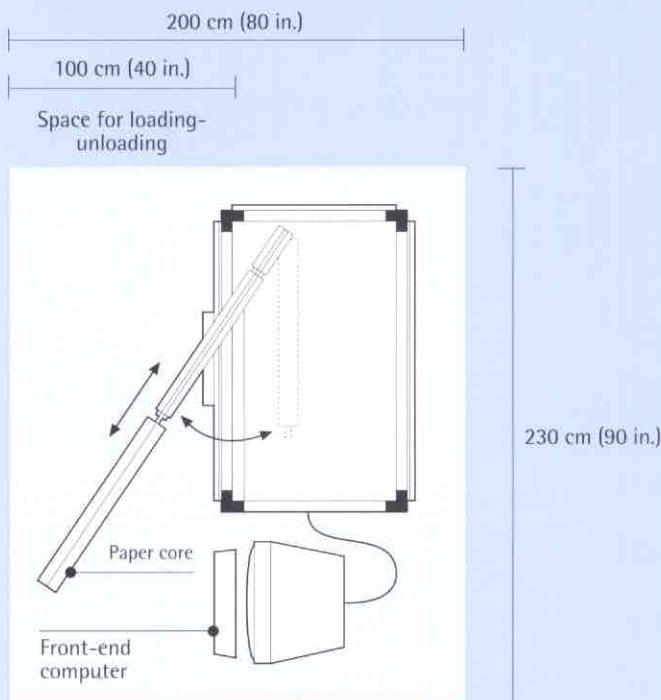
Space requirements/Foot print

Recommended installation options:

Imager in the darkroom and the workstation in the daylight room



Complete system in the same room (to be darkened for paper loading and unloading)



Technical data

1. General specifications

Power supply:
115 V AC \pm 10 %, single phase/50-60 cycles (100 - 120 VAC), or 230 V AC \pm 10 %, single phase/50-60 cycles (200 - 240 VAC)

Dimensions:
Width: approx. 95 cm (37 in.)
Length: approx. 140 cm (55 in.)
Height: approx. 165 cm (65 in.)

Weight:
approx. 400 kg (880 lbs)

Safety and standard specifications:
CE, GS, UL, CSA

Power consumption:
max. 500 VA

Space requirement:
approx. 2 x 2 m (4-sq. m)/80 x 80 in.

2. Imaging specifications

Exposure system:
Proprietary Fibreoptic-LED exposing technology (RGB) continuous roll to roll exposure system

Raster Image Processor (RIP):
Integrated Cheetah-RIP by Durst Dice America

Suitable media:
RA4 type reflective media, RA4 type backlit media

Life time of LED light source:
approx. 5 years

Colors:
16.7 million possible colors

Linear output speed:
• standard imaging quality (SIQ)
= 102 mm/min. approx.
= 4.6 m²/h approx.
• high imaging quality (HIQ)
= 52 mm/min. approx.
= 2.2 m²/h approx.

Image quality:
True photographic image quality from digital files

Color depth:
39 bits

Addressable levels:
256 levels each RGB

File formats:
• Grayscale-RGB-TIFF, JPEG and BMP
• PostScript Level 2 (PS, EPS, including CMYK, RGB and Grayscale images)
Type 1 fonts only

Resolutions:
254 ppi, continuous tone pixels per inch with on-the-fly pixel interpolation

Note:
Output speed may vary depending on media.

Production capacity:

Print size	Roll width	No. of prints side by side	Prints/hour		Prints/day (8 hours)	
			HIQ	SIQ	HIQ	SIQ
13 x 18 cm (5 x 7 in.)	76 cm (30 in.)	6 Horizontal	102	205	816	1,640
20 x 25 cm (8 x 10 in.)	76 cm (30 in.)	3 Vertical	45	90	360	720
30 x 40 cm (12 x 16 in.)	61 cm (24 in.)	2 Horizontal	15	30	120	240
50 x 76 cm (20 x 30 in.)	76 cm (30 in.)	1 Vertical	6	12	40	96
76 x 100 cm (30 x 40 in.)	76 cm (30 in.)	1 Horizontal	4	8	32	64

Production capacity based on Kodak RA-media type Digital III and „Multiple Print“ mode and does not include handling times for file opening, ripping etc. Capacity may vary depending on media.

3. Paper transport

Feeding device:

Single position roll feed (loading level: approx. 130 cm/51 in.)

Take-up device:

Swing out automatic take-up system with automatic paper loading and cutting device

Paper loading capacity:

Width cm/in.	Length m/ft
30.5 cm/12 in.	83 m/275 ft
50.8 cm/20 in.	83 m/275 ft
61 cm/24 in.	50 m/164 ft
76.2 cm/30 in.	50 m/164 ft

Maximum roll length of exposed paper:
30 m (100 ft)

Minimum print length:
1 cm (0.4 in.)

Minimum paper advance:
approx. 40 cm (15.7 in.) including exposed area

Paper waste when loading and after each cut:
approx. 2 cm (1 in.)

4. Image processor

Image Computer:
Pentium III, 450 MHz

RAM:
128 MByte, intern.
expandable to 384 MB

Hard disk:
9 GByte internal hard
disk

Drives:
• CD-ROM
• 3.5" Floppy Disk

Operating system:
Windows NT 4.0
Workstation with FTP
Services

Monitor:
17" color monitor

Graphic adapter:
24 bit to display
16.7 millions of colors,
4 MB

Network Protocol:
TCP/IP, NFS
(Network File System)

Interfaces:

- Ultrawide-SCSI to connect external devices
- 2 FastEthernet (100 Base T), one for the data transfer/communication between the front-end PC and the imager and one for the network
- RS 232 (for densitometer-online-operation)

5. Environmental requirements and restrictions

Temperature range:
+ 15°C to 30 °C
(+59 °F to 86 °F)

Relative humidity:
25-80 %

Room:
To be darkened for loading and unloading
of paper

durst

The latest technical developments are constantly being incorporated into Durst products. Illustrations and descriptions are therefore subject to modification.

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