



Durst Theta 50 is a fully digital lab system based on laser technology, designed for heavy duty, continuous production in portrait/social, wedding and commercial labs. Theta 50 consists of a high speed laser imager with dual paper cassettes and a linked RA 4 paper processor.

Theta 50 offers an All-in-one solution for print sizes up to 50.8 x 76 cm (20 x 30 in.) Thanks to the unique size flexibility of Theta 50, all print sizes from icons or wallets up to 50.8 cm (20 in.) wide of one order can be printed on the same device. This guarantees a 100 % perfect match in color and density of all prints and results in shorter turnaround times and reduced production costs.

The system features an outstanding production capacity of close to 600 prints 20 x 25 cm (8 x 10 in.) per hour (processed and cut) or close to 1.000 prints 20 x 25 cm (8 x 10 in.) at full speed printing on the largest media, equal to over 60 m/hour.

A dual-paper cassette system allow a very fast media access, without the need to load or unload it each time. This allows a much easier handling of mixed size orders or jobs to be printed on different media (reflective or backlit).

For highest image quality, Durst Theta 50 features a dual, auto-switchable resolution of 200 and 400 full continuous tone pixel per inch (ppi) with on-the-fly pixel interpolation (Equal to an apparent resolution of 4000 dpi). Image sizing and image corrections are carried out on-the-fly without involving additional computing time.

Theta 50 can produce panels with a maximum length of 5 m (15 ft). For an optimum productivity and media use the unique Durst Autonesting software allows to print different images and/or different print sizes side-by-side on the largest media. At the same time the Durst Autocutter Barcode information is printed for a fully automatic and unattended cutting of the prints with the Durst Autocutter 32 and 62 series.

Theta 50 is equipped with the Durst Auto-spooling software for ASCII files. Image files are thereby automatically picked up from any network-connected server (Windows 95, 98, NT or UNIX) or from the Durst Sigma film scanner, preset corrections are automatically applied to each job, where after the job files are automatically transferred to the queue manager of the laser imager and are then printed and processed on the selected media.

Theta 50 features a powerful Compaq workstation with Compaq True64 (Digital UNIX) operating system and integrated, high performance PostScript 3 RIP by Durst Dice America.

Theta 50 is equipped with a high speed roller-transport RA 4 paper processor, running at a speed of 150 m/hour, equipped with automatic and workload adjusted replenishment, temperature control and an efficient IR-drier.

Technical data

Laser Imager

Printing technology:
RGB Laser

Linear output speed:
207 cm/min. (81,4 in./min)

Resolution:
auto-switchable 200/400 PPI

Media feed:
Dual-Paper cassettes max. 175 m (530 ft)

Suitable media:
Reflective and backlit

Print sizes:
(cut sheets from roll media)
• min. 13 x 18 cm (5 x 7 in.)
• max. 50 x 75 cm (20 x 30 in.)
• panels up to 5 m (15 ft.)

Production capacity with 50 cm media
width:
approx. 63 m/hour
approx. 190 sq. ft/hour

Production capacity/hour with max. media
width 50 cm, printing on panels in Multi-
Print or Auto-Nesting mode:
10 x 15 cm (4 x 6 in.) = 2.890
13 x 18 cm (5 x 7 in.) = 1.800
20 x 30 cm (8 x 12 in.) = 760
50 x 75 cm (20 x 30 in.) = 165

Production capacity/hour with format
matched roll media:
13 x 18 cm (5 x 7 in.) = 670
20 x 30 cm (8 x 12 in.) = 590
50 x 75 cm (20 x 30 in.) = 165

Workstation:
Compaq

Operating system:
UNIX

RAM:
256 MB

Hard disc:
9+9 GB internal hard disk

File formats:
Tiff, JPEG, PPM, PS-Level 3

RIP:
integrated Cheetah RIP from Durst Dice
America

Interfaces:
• Ultra wide SCSI
• Ethernet AUI Port
• DEC 423 interface
• RS232 (for densitometer online operation)

Paper processor

Tank volume:
Dev. = 2 x 20 L
Bx. = 2 x 20 L
Wash = 3 x 30 L

Transport system:
Roller Transport

Speed:
150 m/h (454 ft/h)

Agitation:
Via circulation pumps and external
chemistry filters

Wash:
Plumbed or non-plumbed

Replenishment:
Automatic, proportional and utilization
adjusted

Drier:
High efficient, work-load adjusted IR drier

General Specifications

Power supply:
• 208 VAC \pm 10 %, 3 phase/60 HZ
• 230/400 VAC \pm 10 %, 3 phase/50 HZ

Power consumption:
10.000 VA

Dimensions:
Length = 412 cm (162 in.)
Width = 143 cm (56 in.)
Height = 188 cm (74 in.)

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

Illustration of Durst Rho 160 by Stefan Brüning, Brixen/Italy

durst

PROFESSIONAL MARKETING SERVICES, INC.
4802 East Ray Rd, PMB 28, Phoenix, AZ 85044
(480) 940-5400 FAX (480) 940-5488
email: pmsi@promarketinc.com
website: www.promarketinc.com

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