



Theta 51

The Lambda Lab[®]

Durst Theta 51 is a fully digital lab system based on the market proven Lambda laser technology, combining outstanding productivity with Lambda equivalent imaging quality, designed for heavy duty, continuous production in portrait & social, wedding and commercial labs. Theta 51 consists of a high speed laser imager with a single paper cassette and a linked RA4 paper processor at 150 m/h.



- All-in-one solution for single cut print sizes from 10 x 15 cm (4 x 6 in.) up to 50,8 cm x 5 m (20 in. x 15 ft)
- Production capacity of close to 1000 prints 20 x 25 cm (8 x 10 in.) per hour at full speed printing on the largest media, equal to 60 m²/hour
- Dual, auto-switchable resolution of 200 and 400 full continuous tone pixel per inch (ppi)
- Handles media rolls from 10,2 cm (4 in.) up to 50,8 cm (20 in.)
- Durst Autospooling software with ASCII file and name extension support for a fully automatic workflow
- Durst Autonesting software and Multiple Print Mode to print images side-by-side on panels with a maximum length of 15 ft (5 m)
- Powerful HP True Digital Unix workstation for continuous printing and spooling
- Back printer to mark job information on the reverse side of the prints.
- High performance PS Level 3 RIP*
- On-screen softproofing to directly correct image files prior to printing
- Automated Color Management workflow*
- High speed roller-transport RA4 paper processor, running at a speed of 150 m/hour, equipped with automatic replenishment, and an efficient IR-drier.

* optional software packages

Technical data

1.0 General Specifications

Power supply:

208 VAC \pm 10 %, 3 phase/60 Hz

230/400 VAC \pm 10 %, 3 phase + N/50 Hz

Power consumption:

8 KVA

Dimensions:

Length = 450 cm (177 in.)

Width = 151 cm (59,4 in.)

Height = 160 cm (63 in.)

2.0 Imaging Specifications

Printing technology:

RGB Laser

Linear output speed:

207 cm/min. (81,5 in./min)

Resolution:

auto-switchable 200/400 PPI at equal speed

File formats:

Tiff, JPEG, BMP, PPM, PS-Level 3, PDF

RIP:

PS Level3

Color Management:

CMS software for automatic ICC conversion

3.0 Media Handling

Media feed system:

1 universal, daylight loading media cassettes

Loading capacity:

175 m (530 ft)

Suitable media:

Reflective and backlit

Print sizes:

(cut sheets from roll media)

- min. 10 x 15 cm (4 x 6 in.)
- max. 50 x 75 cm (20 x 30 in.)
- panels/panorama prints up to 5 m (15 ft)

4.0 Printing capacity

Printing capacity with max. media width 50 cm (20 in.), printing in Multiple-Print mode or Auto-Nesting mode:

10 x 15 cm (4 x 6 in.) = 3.880

13 x 18 cm (5 x 7 in.) = 2.700

20 x 25 cm (8 x 10 in.) = 1.100

Printing capacity with format matched roll media in print repeat mode:

10 x 15 cm (4 x 6 in.) = 786

13 x 18 cm (5 x 7 in.) = 680

20 x 25 cm (8 x 10 in.) = 590

30 x 45 cm (12 x 18 in.) = 270

50 x 75 cm (20 x 30 in.) = 165

5.0 Image Computer

Workstation:

HP - UNIX workstation DS 15

RAM:

1 GB

Monitor:

19" color monitor, Resolution 1280 x 1024

Hard disc:

3 x 36 GB internal hard disk

6.0 Paper processor

Tank volume:

Dev. = 2 x 20 L

Bx. = 2 x 20 L

Wash = 3x30 L

Transport system:

Roller Transport

Speed:

150 m/h, 454 Ft/h

Agitation:

Via circulation pumps and chemistry filters.

Wash:

plumbed (non-plumbed version optional)

Water connection:

for plumbed version warm water IN and OUT

Replenishment:

Automatic, proportional

Drier:

High efficient IR drier



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