

LaserLab 127cm - 50"

professional integrated digital lab based on Laser technology up to 127x254cm (50x100")

The LaserLab 127 has been developed to combine large size and professional high quality production in a single extraordinary solution. Available with standard resolutions of 254 and 305 dpi or optionally up to 406 – 610dpi. The consolidated experiences of the LaserLab50 and LaserLab76 are a reliable showcase of this integrated digital lab with a maximum output of 1270x2540mm, and which includes a 50m/h paper processor.



Quality. The word compromise does not exist at Polielettronica, the maximum in terms of quality and productivity are our only possible goals. For this, the LaserLab comes equipped with a solid state R - G - B Laser unit, as it is the only exposure system which allows the maximum in term of color depth, color separation, tone continuity, and details in both Highlights and Shadows.

The Polielettronica 16 bit/color graphics processor (LMIV2) guarantees that the transfer of information from image to paper is complete.

The Laser alignment system and the optical transfer through a single fiber optic, developed by Polielettronica, guarantees maximum quality on each of the 1.395.375.000 pixels (1,3GB) needed to expose a 127x254cm at 305dpi.

All of this in 60 seconds.

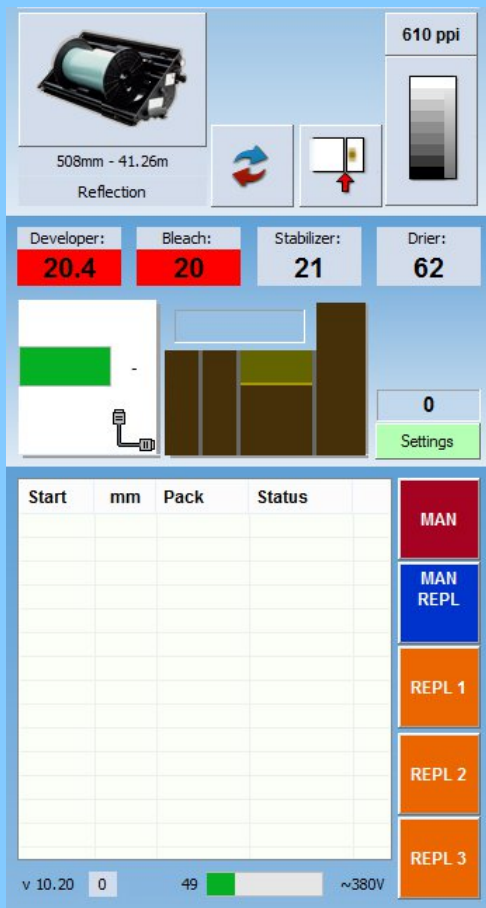


Only 3 steps for a perfect result

1 The paper is cut and positioned into the drum, simultaneously the image is processed and prepared for exposure

2 The exposure unit begins to move on an air cushion, and the mirror rotates to refract every pixel of the image on the paper. The laser unit converts the image data coming from the computer into a single laser beam, which is then transferred to the drum via fiber optic.

3 The exposed paper is delivered to the paper processor, simultaneously a new exposure begins from point 1 without any waste of time.



Paper Processor:

- Fully controlled from ImageLab software: status and setup windows, tool bars for direct control
- 3 independent settings (normal, transparent back lit, custom).
- Low power mode after processing the last print.
- Rapid change from waterless to water processing.
- Custom temperature control, replenishment rate and treatment speed for compatibility with many RA process.
- Independent temperature control for Developer, Bleach, Dryer.
- Replenishment unit (3 x 20liters or 3x60liters for LaserLab 127cm - 50"). Overflow 3 x 20Liters.
- Easily connectible to centralized replenishment and/or drain units.

Imagelab:

It's the software designed to manage every LaserLab model and the High Res LaserLab (up to 1016dpi) printers manufactured by Polielettronica.

Imagelab controls the mechanical sections, verifies the lasers output and performs every operation like resampling, resizing and trimming necessary to bring the image to the printing size.

Color Management: Imagelab has a complete color management module, an image with embedded profile will be converted to a working space depending on the media in use. If the images have no profile embedded, it is possible to select and embed a default one.

Calibration: the media settings are calculated automatically, there is no need for any target density from the manufacturer.

Graphic formats: Imagelab can open an impressive number of different graphic formats. In addition to common ones like JPEG, TIFF and BMP, it is possible to open PSD, TIFF (CMYK), TIFF (LZW), Macintosh PICT, PNG, PPM, PostScript, and JPEG2000.

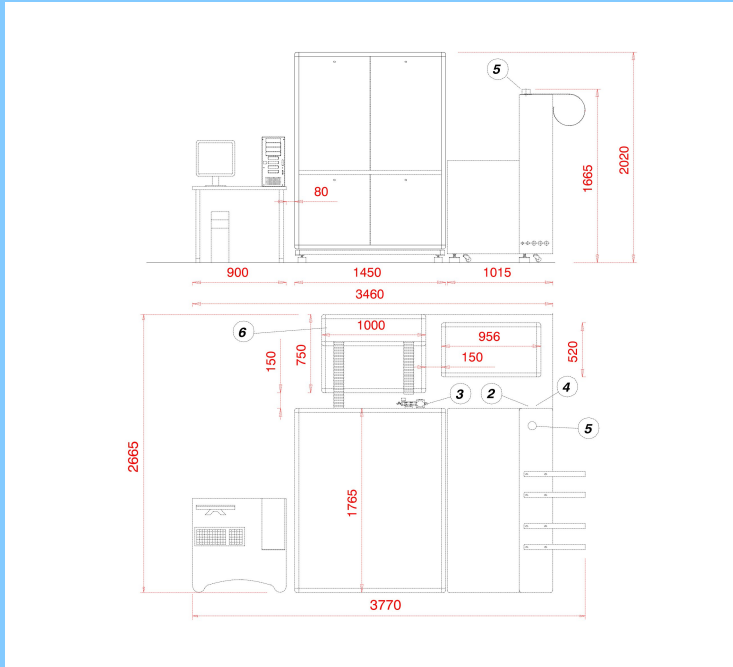
Printing sizes: with Imagelab the formats can be fully customized. The sizes can be adjusted up to 1/10th of mm. Any format can have its own settings and properties, such as border, sharpen, resizing algorithm or quality level, or convert to grayscale - sepia, color brightness and automatic correction. Imagelab includes also a tool for the creation of packages as well of calendars or greeting cards.

Print queue - Print Spooler: with Imagelab it is possible to create a job and print it remotely when needed, or send new jobs while previous ones are being exposed. A printing queue can be generated for every printing size, and it is possible to decide if the job has to be sent to the HSCutter. Everything can be managed easily from another computer.

Imagelab generates layouts that can be cut with the HSCuttunig Station only.



Floorplan and dimesions



Power requirements:

Printer: AC 220/240 (50/60Hz) single phase (peak 3KW)

Paper processor: AC 220 or 380 (50/60Hz) single or three phase (peak 10Kw)

Weight: 1605kg (3538lbs)

Productivity (prints/hour):

18p/h 127x250cm(50x100")

Exposed surface = 57sqm/h

Print Sizes:

From 508x508mm up to 1270x2540mm

- 20x20in up to 50x100in

Paper width

Any from 508mm (20in) up to 1270mm (50in)

Technical Data

- Laser exposure with Red Green and Blue lasers
- 16bit/color (48bit) Graphic processor
- Exposure by 3 colors collimated in a single beam and transferred to paper by a single fiber optic
- Invariable pixel geometry on full exposure surface

Computer and Software:

- Software: Windows 8.1, Imagelab v6, other utilities
- Networking: 2 x 1Gbit network adapter
- Connections: USB2 ports available on back side panel
- CPU: AMD Eight Core processor (minimum 3,5GHz)
- Memory (RAM): 32 Gigabytes
- Storage: 4 HD 900GB SAS configured in 2 mirrors
- Monitor: larger than 22" High Quality EIZO monitor
- Various: Keyboard, mouse
- Extra: 1x15m UTP cable, 4 port network switch



Bluelitho[®]

Our products are subjected to constant technical improvements. Accordingly we reserve the right to modify them at any time, with respect to the present text and illustrations. All products, names and services are trademark or registered trademark of their respective companies.