LASERLAB 50cm -20"-

A complete High quality and flexible professional digital Lab

With optional HSCutter and Sorter for an unbelievable productivity on small / medium sizes

Available in 4 versions:
- With or without scanner
- 150 or 100 m/hr paper processor

Professional
High quality output

High speed
professional scanner

Speed:
Up to 66 square meters
per hour processed
(160 prints 50x82cm)

Full color management

Wide range of input
file format supported

Ready for network printing
1Gbit network adapter

A Professional Digital LAB in a single unit with the Polielettronica High Quality

The *LaserLab50* with integrated scanner has been developed on the consolidated experience of the LaserLab 50x82, LaserLab 76x125, LaserLab 30 and Digital Imager. These business cards are enough to introduce this integrated digital lab with a maximum output of 508x820mm, which includes scanner and paper processor.

Quality. The word compromise does not exist in Polielettronica, the maximum in terms of quality and productivity are the only possible targets.
Just for this the LaserLab 50x82 is equiped with an R - G - B Laser unit, it is the only exposure system which allows the maximum in term of colour depthness, colour separation, tone continuity and maximum details in Highlights and Shadows.
The Polieletronica 16 bit/colour graphic processor warrants the full transfer of information from the image to the paper.
The Laser alignement system and the optical transfer, through single fiber optic, developed from Polielettronica, warrants the maximum quality of each one of the 124`968`000 pixels needed to expose a 50x82cm! All this in 10 seconds.

Software. The friendly interface of Imagelab gives the possibility to have a quick setup of the LaserLab, during the installation as well in daily operations.
The new operator can be easily introduced on the use of this unit, an expert which has experience on Polielettronica LaserLab 30 or 76 does not need any extra information.
Automatic Calibration: The LaserLab 50x82 is automatically calibrated thanks to the software tool and the densitometer (both included). A new unknow media is calibrated automatically, any extra information and manual corrections are not required.

Open system. The Polielettronica LaserLab 50x82 is able to print external jobs. It is enough a network cable to have a printer which can be shared between different operators; without any extra tool except the existing network.
Thanks to its 1GBit network adapter the images can be transferred quickly, the Internal job produced from the scanner will be printed as well as the external ones.
Thanks to the Polielettronica Auto Print folder mode, included in the software, all the jobs will be correctly processed and printed in the correct size and needed setting.
A wide range of input formats is supported like: jpeg, tiff, tiff(CMYK), PSD, Macintosh PICT, PNG, .PDF, .PPM, PostScript, JPEG2000, PhotoCD, etc. Contact us for details on other formats.

Profiles and Color Management:
The Polielettronica LaserLab 50x82 has a complete color management module.
The Laser Videolab is able to convert embedded profile to the paper output profile or ignore the existing one.
In case it is necessary it is possible to define a default profile to embed in images coming from device without color management.
The soft proofing is always active thanks to the monitor profile and the paper output. All the options can be easily programmed to be repeated on all the images processed.

Packages

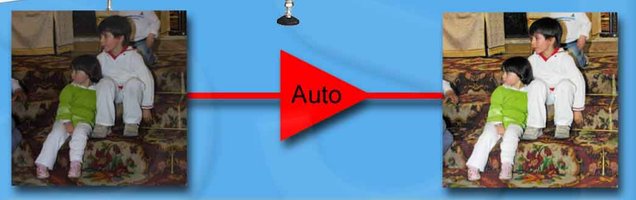
Packages? Why not? The software (all included) contains a powerful tool for the generation of packages. Once generated a package it can be applied to the autoprint, then printing a package requires the same effort of a single image.
Calendars - Greetings and Frame: the same tool for the package is able to produce calendars, greetings card and framed photos, it includes also the insertion of customized text and logo on all the images processed. Its extreme flexibility allows the generation of any kind of job necessary to satisfy the costumers. **

Calendars

Greetings

Index prints

Index print: The Polielettronica Imagelab software generates automatically indexes on all the orders. Thumbnails size, logo, image name and order can be customized.



Automatic Correction Library (option): To complete the great capabilities of the LaserLab is available an automatic tool able to enhance the quality of the images. It is able to correct digital images in: color, density, contrast, shadows - highlights and color saturation.
Free demo version available on demand (contact your dealer).
i2e enhancement library by Colour-Science AG.

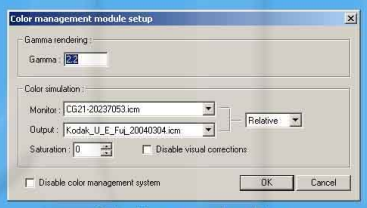
Polielettronica S.p.A. Polielettronica S.p.A. Polielettronica S.p.A. Polielettronica S.p.A. Polielettronica S.p.A. Polielettronica S.p.A.

** Backgrounds, frames and logo are not supplied from Polielettronica.

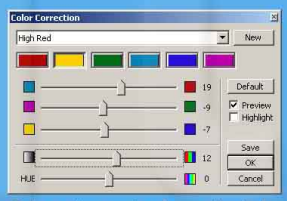
More than a Scanner

Dedicated keyboard with multifunction Joystick

The Scanner is an acquisition system with an integrated Colour Video Analyser.
This means the possibility of correcting professional images in real time through the experience of Polielettronica technology.
The Joystick represents the best tool to correct images in terms of accuracy and handling.
With the selection of a button, it is possible to switch the Joystick between standard colour-density, contrast and gamma; everything in real time (no delay) with a colour preview calculated from the internal colour management module.

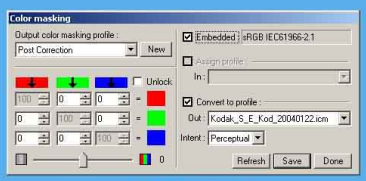


Color Management module



Color replacement and correction tool

Technical data:
- Input: Negative or Positive photographic films
- File size 24Mb / 6Mb (no time loss to change size) 96Mb(Option)
- 4.5 seconds for acquisition. Image displayed on monitor ready to be saved (any film size) 2.5 seconds in 6Mb mode. 15 seconds for 96Mb (option)
- Film size from 110 up to 6x9 (120)
- Standard output file formats: TIFF, JPEG, JPEG2000, BMP.
- Fulll color management.
- Light source: High power led
- Film masks included: 135, 4x6, 4.5x6, 6x6, 6x7, 6x9



Color Saturation,
Embedded - Assign - Convert profile tool

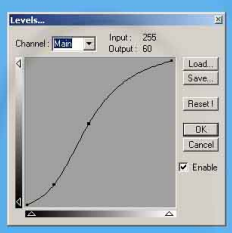
Ready = 1 Step !

Sepia

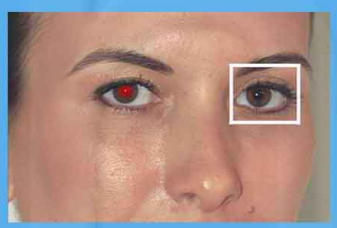
Cropping

Black and White

Images correction: The Colour Video Analyser, is able to correct images coming from any digital source, as cameras or others scanners, with the same professional way as for the internal acquisition, this without any extra is required.
It respects the embedded profiles if present, converts to the output profile if necessary or assigns a default one if not embedded.
Input formats is supported like: jpeg, tiff, tiff(CMYK), PSD, Macintosh PICT, PNG, .PDF, .PPM, PostScript, JPEG2000, PhotoCD, etc.



Levels tool


Red Eye compensation tool

Color correction and replacement tool

Tools (included) all availables on 1st acquisition:

Red eye compensation: a quick tool to replace the red pupils, it is enough to select the area containing red eye.

Cropping: quick tool to define print area or selection from the image.

Dust and scratch hand remover: a quick tool to point and remove dots and scratches from the image.

Black and White with up to 9 sepia levels: a single click to switch into B&W mode with or without sepia tone.

Colour Saturation and Replacement: can be quickly controlled to always reach a professional quality results.

Sharp - Unsharp mask: to enhance image definition depending from its grain and detail level.

Reference Image: up to 10 images can be stored and used as reference for the next corrections.

Color memory -gray pointer: Pick up a color and use it as reference for next correction, click on the color area and it will be balanced at the same color tone. It can be used in color as well on gray tones.

LaserLab 50

(50cm 20") All inclusive ready to go:

Productivity (prints / hour):

Size	Paper width	150m/h	100m/h
50x75	508	160 p/h	115 p/h
30x45	305	220 p/h	175 p/h
20x30	203	340 p/h	320 p/h
15x20	152	435 p/h	435 p/h
10x15	102	515 p/h	515 p/h

Exposure section:
- R - G - B solid state Laser.
- Resolution: 254dpi (305 on request)

Print Sizes:
-102x152mm up to 508x820mm

Paper width
-Continuous from 102 up to 508.

Paper Processor:
- 3 indipendent settings (normal, Duratrans, custom)
- Low power mode after processing last print
- Quick change from waterless to water processing
- Custom temperature control, replenishment rate and treathment speed for compatibility with many RA process.
- Independent temperature control for Developer, Bleach Dryer.
- Replenishment unit (3 x 30liters) Built in mixing pump for developer. Overflow 3 x 20Liters.

Tanks Volume (liters)		
	150m/h	100m/h
Developer	2x19	28
Bleach	2x19	28
Stabilizer	3x25	3x21

Printer:
Table, UPS, Densitometer (for calibration), paper box, paper processor, replenishment unit.

Scanner:
Software VAnalyser, Negative carriers 135, 4x6, 4,5x6, 6x6, 6x7, 6x9.
Dedicated keyboard with multifunctional joystick.

Computer:
Software:
Windows 2000 Prof., Imagelab, antivirus, others utilities

Digital media Inputs/Outputs:
CD, Zip, drive, DVD, Floppy.

Input/output flow & Connections:
1GBit network adapter.
USB2 ports (up to 6 ports front or back panel)

Processor: Pentium 4 (minimum 3GHz)

Memory: 2 Gbyte (DDR 400)

Storage: mirror = 2x SCSI HDD 73 Gbyte (10000 rpm) Ultra 320

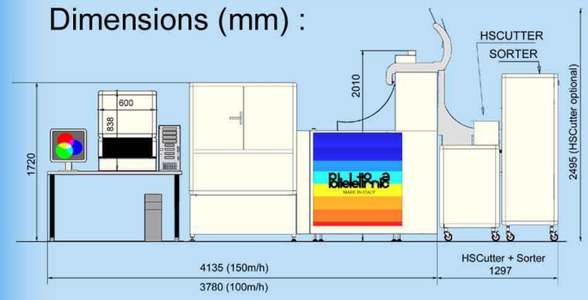
Case: High heat dissipation system, redoundant power supply 2 x 300Watts

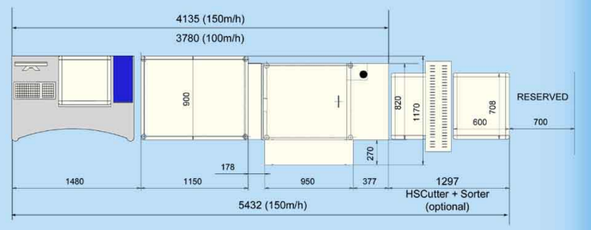
Monitor: High quality EIZO lcd CG18 (18") with calibration software

Network: HUB 3COM 1Gbit (10 - 100 - 1000) 5 ports, 2 x 25mt cable UTP

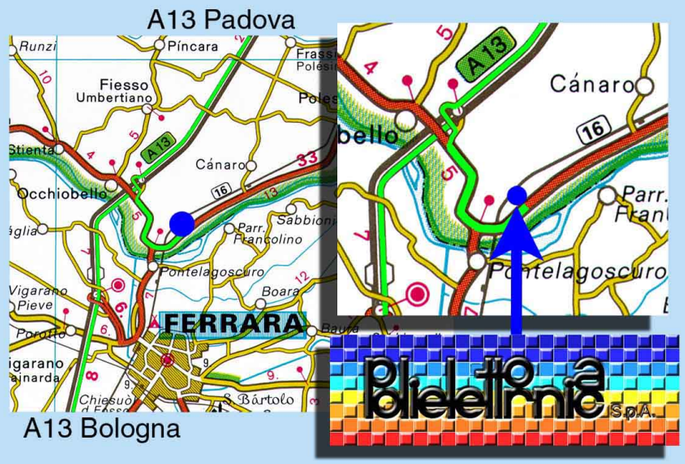
Various: Keyboard, Mouse, monitor shield.

Dimensions (mm) :





Power requirements:
Printer: AC 220/240 (50/60Hz) single phase (peack 3KW) ***Paper processor***: AC 220 or 380 (50/60Hz) single or three phase (peack 7Kw)



VISIT US!

How to reach our factory:

Airports: Bologna (55Km) or Venezia (100Km)
Highway: A13 (Bologna-Padova) exit Occhiobello.

After exiting from the highway turn left. After 150mt, on left is placed our test lab. Continue on this way for 3,5Km. On the second traffic light turn left (towards Rovigo). After 2,5km, on the left, there is our Factory.
You are welcome!

Options

-Automatic film feed units 135 - 4x6 6x6 - 6x7 increases productivity, avoids the loss of time due to manual operations,

-Manual Carrier for 135 slide film or Autofocus carrier for 135 slide film. They allow the handlyng of slide film without removing the frame. The Autofocus model compensate the focus depending from the real position of the center of the film.

-Automatic correction library.
Enhances image quality. For more details read internal pages of this prospect.

-Back writing system. It prints on back side of the print informations like: Image name, date, time, custom string.
It operates for transport lenght over 150mm.

Multiply the productivity of Your LaserLab !
With HSCutter and Sorter.
This powerfull unit can be applied to new or existing LaserLab. It operates exclusively on 50cm paper, and divide in single prints up to a minimum of 9x13.
The Sorter operates up to a print format of 20x25.
Contac Us for more details.

HSCutter productivity (prints / hour)		
Size	150m/h	100m/h
9x13	4700 p/h	3200 p/h
10x15	3800 p/h	2600 p/h
13x18	2430 p/h	1650 p/h
20x25	1210 p/h	840 p/h

Our Products

Digital Imager 24 MB
Digital Imager HR 96 MB

JStation

LaserLab 30 (12")

LaserLab 50 (20")
with HSCutter and Sorter

LaserLab 76 (30")

The mechanical, electrical and the software technology have been developed inside Polielettronica in order to offer fast upgrade and a complete technical support

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 trademarks or registered trademarks of their respective companies.

POLIELETTRONICA S.p.A.
Via nazionale, 55 - Fraz. S.Maria Maddalena
45030 OCCHIOBELLO (ROVIGO) ITALY
Tel. +39 0425757375 - Fax +39 0425756255
URL: WWW.POLIELETTRONICA.IT
Email: polielettronica@polielettronica.it