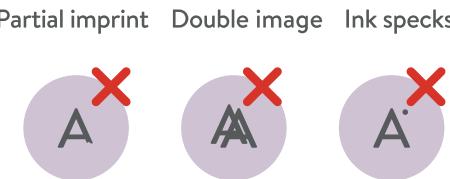


Laser Printing Benefits

Ink imprinting defects eliminated

Partial imprint, double image, ink specs and other imprinting defects caused by ink are eliminated due to non-contact UV laser.



CAD Design

Design or logo can be created using CAD which allows a flexible design.



Improved operating efficiency

Cleaning time is significantly reduced because there is no ink used in the process.



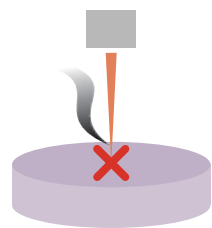
Maximum design flexibility

Not only alphanumeric characters but also katakana and kanji (Chinese characters) are available for printing, resulting in excellent repetition of details.



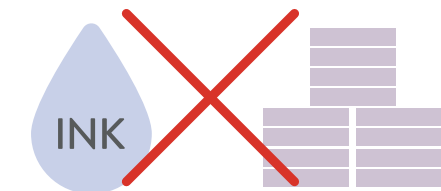
No thermal denaturation

Non-thermal effects of the UV Lasers allow for printing without thermal denaturation on the tablets.



Manufacturing cost reduction

Because no print design roll or ink is needed, those costs are eliminated, as well as the need for extra storage.



Other features

Titanium dioxide is required on the surface film.

Laser marking color is gray.

Auto CAD software is included with this equipment.

Specification

Name	UV Laser Printer For Labortory
Model Number	LIS-Labo
Electricity	3 Phase AC200V±10% 50/60Hz 20A
Overall Dimensions	600 mm X 880 mm X 1,760 mm (WDXH)
Weight	About 400 kg

※The above specification is subject to change without prior notice for the technical development.

LIS-Labo

UV Laser Printer For Laboratory

Printing



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UV Laser Printer for Laboratory LIS-Labo

The LIS-Labo is best suited for examining the design of tablets and sample production. It is ideal for small or R&D scale batches and samples.



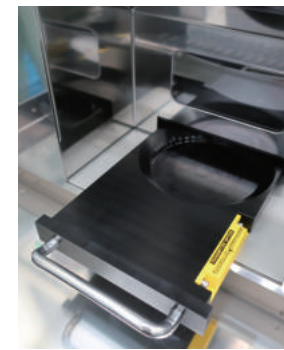
Advantages of the LIS-Labo

- **Multiple prints at the same time without the need for tablet alignment**
For laser printing, tablet alignment is not required and is printed on the tray in a random arrangement. The LIS-Labo is capable of imprinting up to 128 products simultaneously without the need for product alignment.
- **For various tablet shapes and sizes**
Imprinting can be achieved on various size and shaped products. Including oblong, oval, round, polygonal, as well as custom sizes and shapes.
- **Compatible with CAD, 2D Code, Bitmap, Font Editing, etc.**
The logo or design print system is compatible with use of CAD, 2D code, Bitmap and Font/Character Editing software.
- **Equipped with tablet angle detection function**
The LIS-Labo is equipped with a Tablet Angle Detection function that can detect if the tablet is at an angle and make corrections to the print to ensure logo/design is horizontal even if it is random position on the product collection tray.

Flow of Printing

1. Tablet shape setting

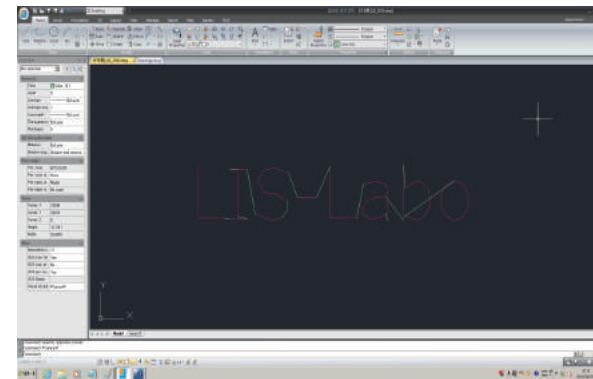
The product detection system can be set to the size and specific shape of any product. The setting for product shape and size are displayed on the left of the full color monitor.



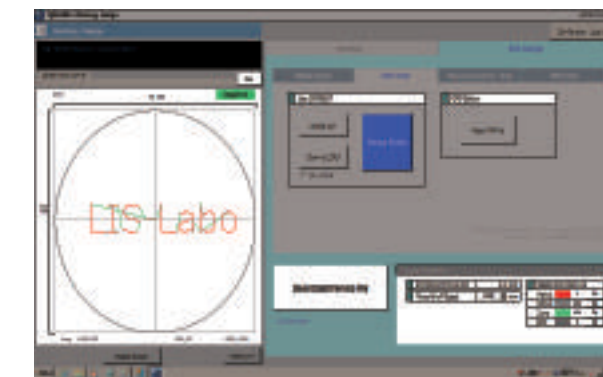
2. Design creation

Imprint designs can be easily created by using CAD, 2D code/Bmp, or font files. Logo or design can be easily achieved through use of a CAD file. Set up and modification can be done quickly and easily through use of the Windows based software.

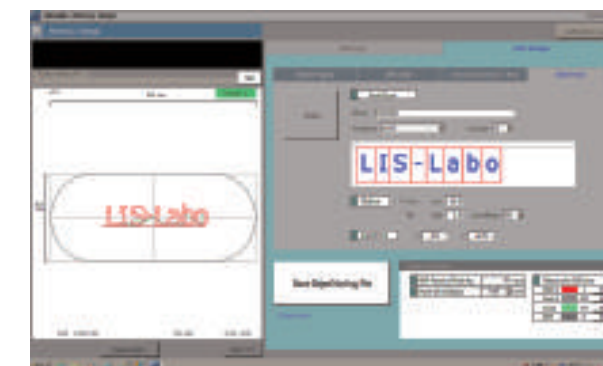
【CAD】



【2D code, BMP】



【Font】



3. Tablet shape registration



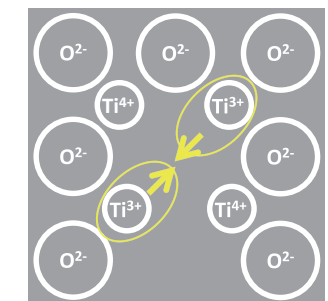
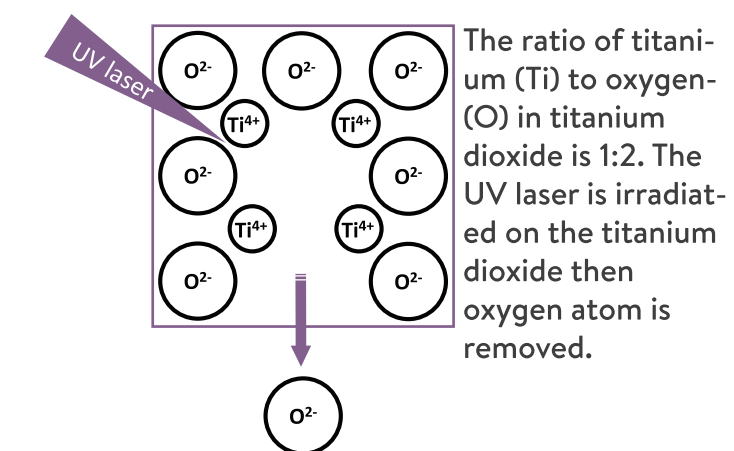
Printing is made easy with the use of a specialized camera detection system. Each product is recognized by its size, shape and location eliminating the possibility of print errors. The LIS-Labo can be used with various shapes and sizes of tablets and/or capsules. The camera detection system is easily viewed on a full color monitor screen. Up to 128 pieces/tray can be printed at one time while placed randomly in the easy to use product collection tray.

4. Print condition setting & Printing



The new LIS-Labo is very user friendly and compact for use in R&D environments.

Laser Printing Mechanism



The removal of oxygen atom causes a change of ratio of titanium atom to oxygen atom. This change of ratio induces the color change of titanium dioxide from white to gray.