

Products Guide of Haiyaa Software

Version 202412

Variable No Limits

Variable No Limits

Who is Haiyaa?

We are a software developer in the field of VDP and related industry solutions.

What is the difference between Haiyaa software and other similar products?

In the VDP side, we are not an entry level utility, but an one stop solution. We have developed the relevant products for more than 16 years and still introduced new technologies nearly every year. We know it's endless.

With the customer requirement's driving, we deeply enter into industry solutions development based on variable and digital printing. Our goal is to bring the real value to our customer by providing smart, innovative and efficiency solutions. Let our customer become the best player in their industry.

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AccountDB Cloth Label

Anno

OneTouch

CareSpecial

TAGProof

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Anti-Photocopy Module

Microtext Module

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Random Color Caterpillar

Random Color Stroke

Digital Fiber Pattern

Digital Pill Pattern

Digital Bacteria Pattern

Random UV Characters

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Lenticular Image Module

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VariPrint

VariPrint is a world-leading variable data printing software developed by Haiyaa. It is the one-stop variable printing application and the core platform of all Haiyaa industry solutions.

It now has 2 versions for choice, they are,

-Professional version

-Assistant

Note: Regard to the spec of the software, please refer to version comparison chart [Specification Chart](#).

Note:

1) Assistant only does design without output, like the client of the above other versions.

2) The users who use digital web press, or produce cloth label, or produce ID card, must choose VariPrint Professional version.

3) All of optional modules are NOT included in VariPrint Professional version.

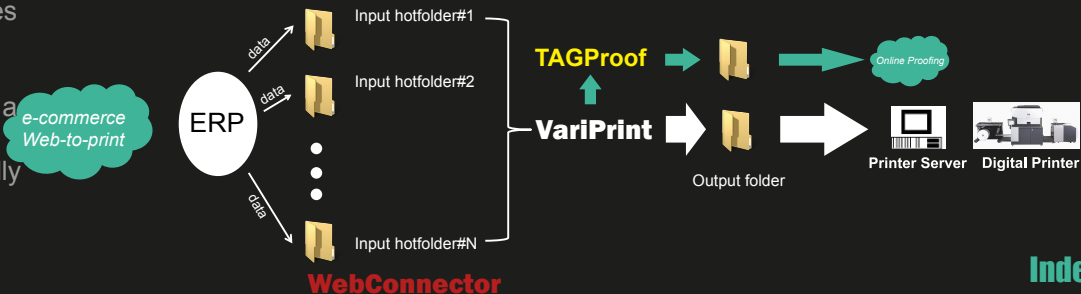
WebConnector

WebConnector is a multi-task manager for variable printing. It works with VariPrint and let VariPrint to be the background variable job production engine. It uses input hot folders to connect the front ERP or Data Center to fulfill the whole workflow automation.

How to use WebConnector? The first step is to design project files for different kinds of jobs by VarPrint, then use WebConnector to set up data input hot folder, output folder and other printing properties for each job. Start WebConnector and standby. When a new data come into the input hot folder, it will trigger VariPrint to generate the printing and save PDFs to output folder automatically in the background without artificial interference or manually operation.

Who need it?

The users have many different kinds of variable job to generate frequently, the templates are fixed, only variable data. It is very suitable for e-commerce and web-to-print user.



Accelerator

Accelerator is a speed accelerator not only for the composing period but also for the ripping period.

- Working with VariPrint
- Default 8-process configuration, up to 16-process.
- Two working modes: hotfolder and manually operation
- Optimized PDF/VT support

Who need it?

It aims at the label and packaging production with very big volume variable job and very complex vector image background.

Job description: *1,000,000* pcs of label with complex vector image background

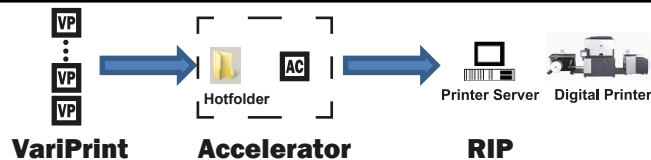
Composing time: *15 min*

Ripping time: *5 min*

(On the latest version HP Production Pro or HP L&P Printer Server)



Single label size: 20x30mm

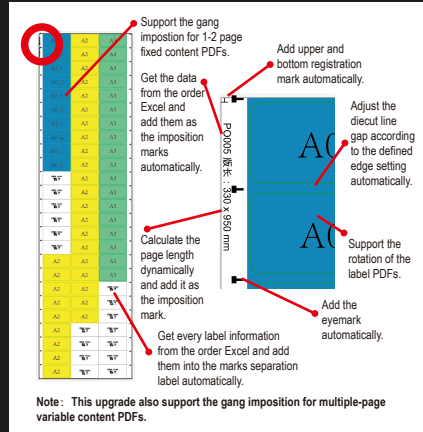
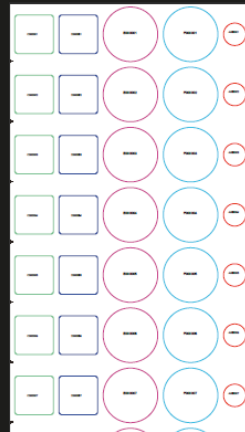
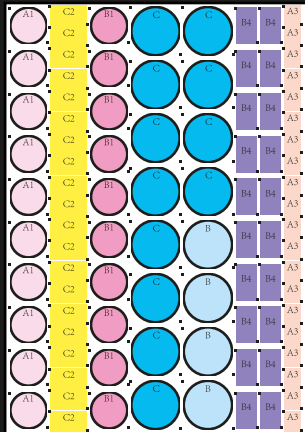


LabelImposer

LabelImposer is an optimized gang imposition tool for different types of short-run fixed or variable labels in the web press. It is combined with Haiyaa TAGImposer R and Haiyaa TIConnector. The purpose is to save paper, save diecutting and to conveniently label connection and labelling. It provides several modes for different requirements.

Who need it?

Label producers who have digital web press and want to move many types of short-run labels onto this printer to print in the gang imposition way.



PDFVerifier

PDFVerifier is an independent utility that is used to verify imposed multiple-page variable job PDFs with its original data file. It is the last check of the PDF before ripping, to guarantee the 100% match of the PDF and data file to avoid barcode repetition, lost and error printing.

Who need it?

Label producers who want a system to avoid barcode repetition, lost and error printing when producing a big volume variable barcode label job.

Note: The current version is only available to verify the barcode types as follows, QR, Datamatrix, EAN8, UPCE, ISBN10, UPCA, EAN13, ISBN13, I25, CODE39, CODE128.

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High speed

14 min

1,000,000

pcs of barcode label

- Fully data loop verify instead of using counter.
- Generate a report of problem barcode.
- Any layout style makes no difference to speed.
- Read the barcode value using OCR.
- Complex background makes no difference to speed.

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RFID Data Generator

RFID Data Generator is a small utility that helps to generate the data for writing and printing on RFID equipment. The data includes multiple PDFs and code writing data with barcode, epc, access code, kill code and user code. It can work with the RFID writing equipment seamlessly. This module is also served as a comparison between the original data and log file generated when writing and find out the error or missing data.

Who need it?

Label producers who want to write the data into RFID and do variable content printing simultaneously.

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主辅文件合并 TIF->PDF PDF合并 2D Color Barcode 文件合并 RFID Process

PDF文件: C:\Users\Edward\Desktop\Output\RJAAT1.pdf

数据文件: C:\Users\Edward\Desktop\Output\Data.xlsx

页数: 1

记录跳跃数: 1

数量列名: 数量

Excel文件名称: 内部条形码

Excel Barcode名称: \$内部条形码\$

厂商号: 9

Kill: 22222222

AccessCode: 11111111

UserID: 33333333

EPC名称: RFID

EPC序列样式: %05X

拆文件命名: \$内部条形码\$

拆文件旋转: 0

%05X--表示序列数据长度为5位, 不足位数前面补0, 序号为16进制数据。
%05d--表示序列数据长度为5位, 不足位数前面补0, 序号为10进制数据。

处理

TrueRandom

TrueRandom is a utility to generate big volume random data without any repetition in a fast and easy way. It can also help to check if there is repetition data inside the customer's data. The purpose is to avoid repetition code label production accident during data preparation period.

--10 million 7-digit random data, generation time is less than 2 m
--Generate new data based on old data, guarantee no repetition.

Who need it?

The real random and no repetition is very important in the track-trace application, brand protection and lottery ticket printing application. TrueRandom is developed to meet above requirement.

EWKYE3
WEOKRH
F0DAU0
CAZAMO
SC87TE
2445BV
3Z295K
TEU000
HOH4P4
BY2RA9

- Generate true random data without any repetition
- Check if there is repetition inside the data your customer provide.

More powerful data repetition checker

TrueRandom Plus is NOW

200 million with 50 digits, only 3 minutes

AccountDB Cloth Label

AccountDB Cloth Label is used to process the data in advance. Due to data format vary with different brand owners and garment manufacturers, it must be integrated to line data. AccountDB Cloth Label includes dozens of modules. Each module has an integration rule for a certain kind of data format. With the help of this utility, the operator no longer have to cut-paste to process the data.

Who need it?

If the data that your customer give you is not clean and not line format, AccountDB Cloth Label can process the data by one-click. Save your time and avoid manually operation error.

e.g. integrate row size data to column size data.

A	B	C	D	E	F	G	H	I	J
SKU	Product	Barcode	S	M	L	XL	XXL	Price	Factory
FF10001-B2	KIDS	30591790	34	3	45	2	2	2.99	XXX
FF10001-B3	KIDS	30591875	45	23	25	6	12	2.99	XXX



A	B	C	D	E	F	G
SKU	Product	Barcode	Price	Factory	QTY	Size
FF10001-B2	KIDS	30591790	2.99	XXX	34	S
FF10001-B2	KIDS	30591790	2.99	XXX	3	M
FF10001-B2	KIDS	30591790	2.99	XXX	45	L
FF10001-B2	KIDS	30591790	2.99	XXX	2	XL
FF10001-B2	KIDS	30591790	2.99	XXX	2	XXL
FF10001-B3	KIDS	30591875	2.99	XXX	45	S
FF10001-B3	KIDS	30591875	2.99	XXX	23	M
FF10001-B3	KIDS	30591875	2.99	XXX	25	L
FF10001-B3	KIDS	30591875	2.99	XXX	6	XL
FF10001-B3	KIDS	30591875	2.99	XXX	12	XXL

TAGImposer

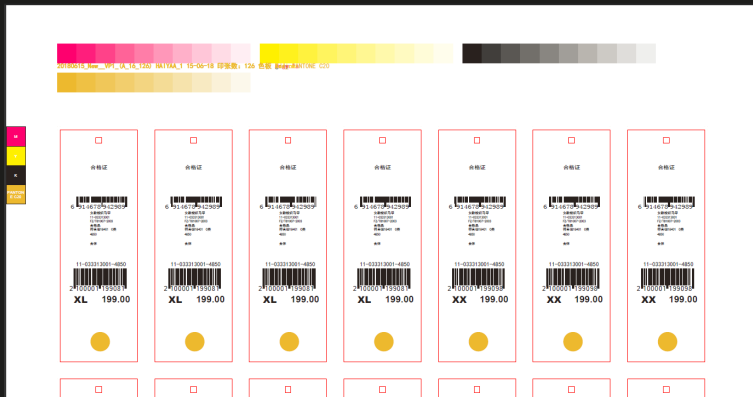
TAGImposer is an optimized gang imposition software based on the quantity of each tag item. That means it will combine the different kinds of hangtags into one or several plates according to each hangtag's quantity in an economical way. The final output is an imposed PDF with all of necessary marks together with an imposition description report and a Separator page(Marks page) for future packing automation use.

Benefits:

--Plate saving --Labor saving --Paper saving

Who need it?

Hangtag printing company, especially for offset printing.



TAGProof

TAGProof is a special imposition software dedicatedly developed to hangtag proofing. Different from normal imposition style for printing, the proofing style produced by TAGProof is easily checked by the brand owner.

Who need it?

Hangtag printing company, When their customer has special imposition style requirement for hangtag proofing. It's a very useful small utility.

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Anno

Anno is a cloth label ordering website platform. The brand owner can place the order on the platform. It includes data input, screen proofing and job tracking. It is a web-to-print solution dedicately for cloth label production.

Key features:

- Easily use and user friendly interface
- Online WYSWYG proofing
- Order status tracking

Who need it?

Hangtag printing company who want to smooth the printing ordering through the website.

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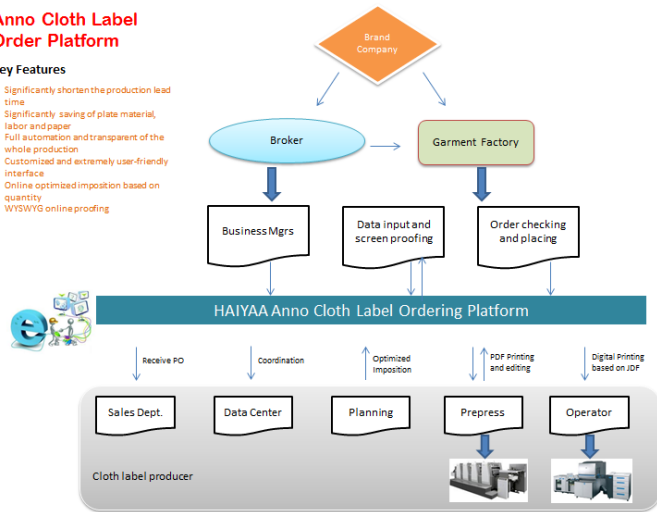
Security Printing

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Anno Cloth Label Order Platform

Key Features

- Significantly shorten the production lead time
- Significantly saving of plate material, labor and paper
- Full automation and transparent of the whole production
- Customized and extremely user-friendly interface
- Online optimized imposition based on quantity
- WYSWYG online proofing



OneTouch

OneTouch is a batch digital printing solution for hangtag. It will set copies and paper tray for every job automatically using JDF and MJM. The main purpose is to free the operator from high tension and avoid error easily caused by manually setting on the console panel. Another purpose is for smoothly sorting and separation of the job from the heavy printing stack.

Who need it?

Hangtag printing company who have many job files to digital printing every day. Each job has different copies.

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OneTouch

MJM

JDF

Source Folder:

C:\Users\Edward\Desktop\OneTouch\testfiles\1.1withMarks

Browse

Target Folder:

C:\Users\Edward\Desktop\OneTouch\testfiles\outputwithmarks

Browse

☒ With marks

Drawer for marks:

157TB1

Drawer for main:

157TB2

☐ Insert blank page

Insert blank page / marks per

pages

☐ Insert marks

File Name	File Type	Drawer	Copies	State
20150409_VP1_A_(126)....	Content	157TB2	126	Submitting MJM
20150409_VP2_B_(68)_Pr...	Content	157TB2	68	Submit waiting
20150409_VP3_C_(67)_P...	Content	157TB2	67	Submit waiting
20150409_VP4_D_(15)_P...	Content	157TB2	15	Submit waiting
20160409_VP1_A_(126)....	Content	157TB2	126	Submit waiting
20160409_VP2_B_(68)_Pr...	Content	157TB2	68	Submit waiting
20160409_VP4_D_(15)_P...	Content	157TB2	15	Submit waiting

Configuration

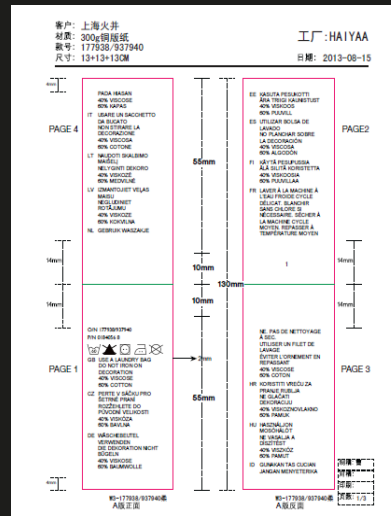
Submit

CareSpecial

CareSpecial is an optional module for dynamic length multi-language care label production. It works with VariPrint Professional. It can translate composition and extra care instruction to different language from single English and layout them automatically. The layout can cross page between different types of crease line setting based on the content length.

Who need it?

Care label printing company.



- * 手洗，最高洗涤温度40 °C
- * 不可漂白
- * 不可翻转干燥
- * 熨斗底板最高温度110 °C 蒸汽熨烫可能造成不可回复的损伤
- * 使用四氯乙烯和符号F代表的溶剂的专业干洗。常规干洗

- * Hand Wash-Maximum washing Temperature 40°C
- * Do not bleach
- * Do not tumble dry
- * Iron at maximum sole plate temperature of 110°C Steam ironing may cause irreversible damage.
- * Professional dry cleaning in tetrachloroethene and all solvents listed for the symbol F -Normal process

- * 与浅色衣服一起洗涤。深色为洗涤褪色型产品，反面洗涤。洗前请脱卸装饰品。

- * Wash with similar colors. In order to avoid any fading, wash your garment inside out. Remove all the accessories before washing.

中国制造
MADE IN CHINA



- FR Laver à la main-Ne pas blanchir-Ne pas sécher en machine-Repasser à basse température-Nettoyage à sec, avec tous les solvants-sauf trichloroéthylène

- TW 商品置於水中，以手洗滌（若未註明溫度則表示可用熱水，水溫最高不可超過攝氏九十度）-不可漂白-不可烘乾-可熨燙，最高溫度不超過攝氏一一〇度-可用除三氯乙烯以外的乾洗溶劑乾洗

- TH ชักผ้าด้วยมือในน้ำเย็น-ใช้สารฟอกขาวที่อุณหภูมิไม่สูง-หลีกเลี่ยงการตากแห้ง-ใช้ความร้อนไม่เกิน 110 องศาเซลเซียส-ใช้สารฟอกขาวที่อุณหภูมิไม่เกิน 110 องศาเซลเซียส-ใช้สารฟอกขาวที่อุณหภูมิไม่เกิน 110 องศาเซลเซียส

- KR 손빨래만 가능-염소표백 하지 말 것-기건조기 사용 금지-자른 다리미 가능-트리클로로에틸렌을 제외한 모든 용제로 드라이클리닝 가능

- ID Cuci dengan tangan-Jangan Menggunakan Pemutih-Jangan Memakai Pengering-Seterika, Suhu Rendah-Dryclean(Cuci Kimiawi), Hanya Pelarut Petroleum

- FR Laver avec des couleurs similaires. Laver à l'envers afin d'éviter la décoloration. Enlever tous les accessoires avant lavage.

- TW 與近色衣服一起洗滌，防止褪色，避免脫卸裝飾品。

- TH ชักผ้าด้วยมือในน้ำเย็น-ใช้สารฟอกขาวที่อุณหภูมิไม่สูง-หลีกเลี่ยงการตากแห้ง-ใช้ความร้อนไม่เกิน 110 องศาเซลเซียส-ใช้สารฟอกขาวที่อุณหภูมิไม่เกิน 110 องศาเซลเซียส

- KR 세탁은 색상으로 함께 세탁할 것. 흰색 등 지는 세탁을 따로 하십시오. 세탁 후 건조는 건조기 사용 금지. 다리미 사용 가능. 드라이클리닝은 염소계 세제 제외 모든 용제로 가능합니다.

- ID Cuci dengan warna yang sama. Agar warna tidak cepat pudar, cuci ke dua sisi pakaian. Buka semua aksesoris sebelum mencuci.

- FR Fabriqué en Chine

- TW 中國製造
- TH ผลิตในประเทศไทย
- KR 중국산
- ID Buatan Cina

AllinOne

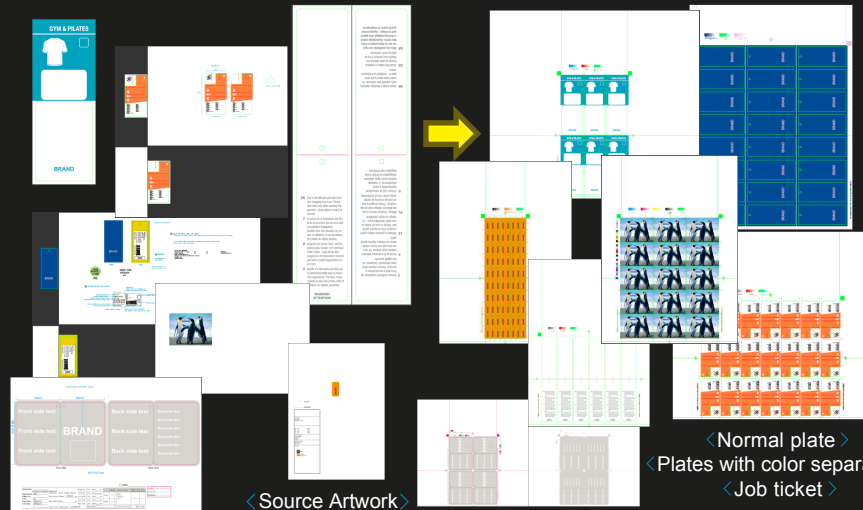
AllinOne Exterior Artwork Prepress Solution is a 1SKU1Plate Fully Automation Prepress Workflow deliberately for exterior artwork. Starting from any layout type of original artwork PDF, we output print-ready imposition PDF. It combines two steps, the processing includes the following features.

- Outlining
- Extract front and back side at any size.
- Edit color
- Crop the valid part
- Plates output
- Extract useful pages
- Remove color
- Imposition
- Job ticket

Who need it?

Cloth label printing company who has many exterior artworks to do imposition and print every day.

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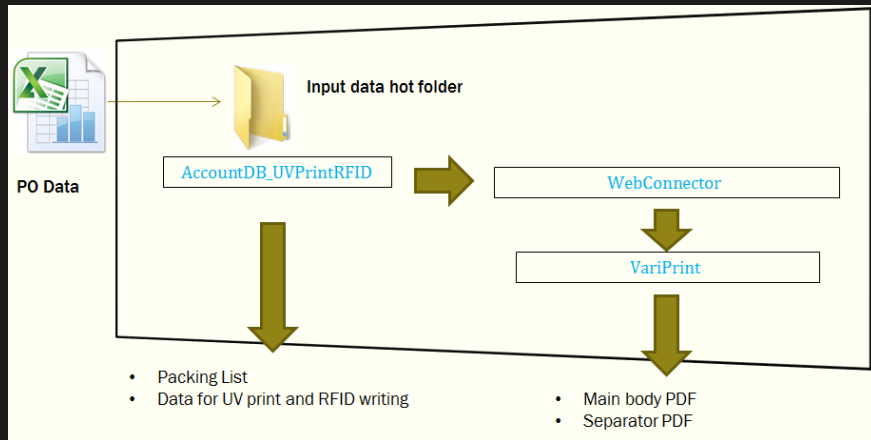
UVPrintRFID

UVPrintRFID is a fully automatic prepress solution for single label UV printing and RFID writing. It will help the user to fulfill following functions,

- High efficiency and time/labor saving
- Printing and RFID writing safely
- Easily packaging
- Clearly job management

Who need it?

Cloth label printing company who has labels or sticks to print and RFID writing.



Variable Object Lining

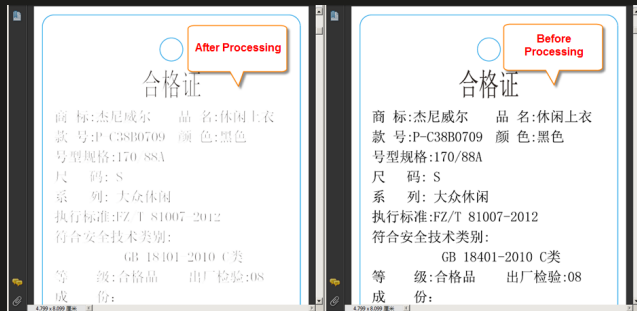
Variable Object Lining is a small utility to process the cloth label artwork automatically for screening printing. It is very useful for heat transfer tag production. It can set outline weight at any value freely for defined color patch. By importing a multi-page original outlined PDF, it will batch process the file and produce a new outlined multi-layer PDF with overprint between. The user can send it to Haiyaa TAGImposer to combine them together according to each quantity and then print an imposed PDF for flexo plate making.

Who need it?

Cloth label screening printing and UV printing.



1. Batch generate the artwork for screening printing



2. Compensate the dot gain in the UV printing

Kaleidoscope Engine

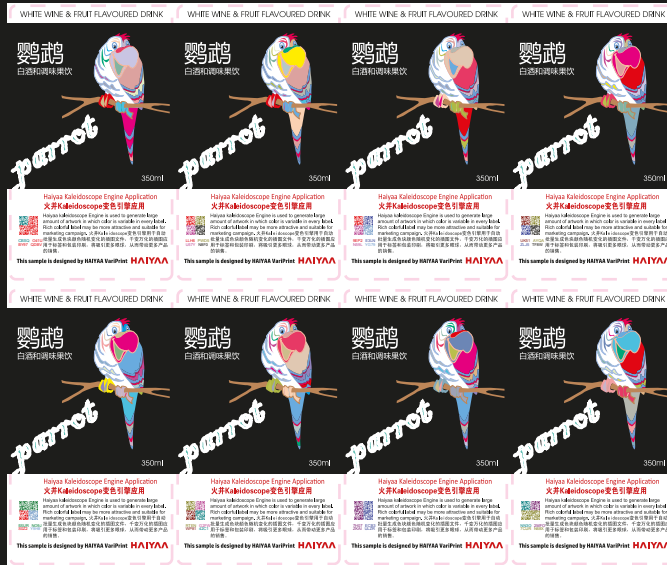
Kaleidoscope Engine is a standalone generator belong to HPGS(Haiyaa Pattern Generator Suite). It is a utility to colorize the vector patch inside the pattern randomly or in a defined rule. It accepts a PDF as the template, then add colors as much as you like to the color list, then click to produce PDFs with different color patch at an incredible speed.

--We only change the color patch with the fixed pattern.

--Produce 10K PDFs with colorful patch within 8 seconds

Who need it?

Label producers works together with the brand owner who want to colorize the label and make it attractive.



FreeCut

FreeCut is a new strong personalized font generator. It simulates the scissors to split the font type randomly to a lot of small irregular patches , then give random color to each patch. The purpose is to make the variable text colorful and attractive.

Who need it?

Label producers works together with the brand owner who want to colorize the label and make it attractive.



Random Color Caterpillar

Random Color Caterpillar is a special effect font generator. It gives every characters inside variable text random color at random size. At the same time it generates 2 random curve lines around the variable text. Seeing the appearance, it looks like a caterpillar, so we give this generator utility this product name.

Who need it?

Label producers works together with the brand owner who want to colorize the label and make it attractive.

078900477044

078900477052

078900477050

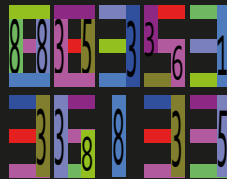
078900477047

Random Color Stroke

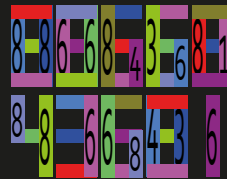
Random Color Stroke is a special effect font generator. It gives random color to every character stroke inside variable text. At the same time it inserts variable text inside each vertical stroke. Since every stroke displays random color, so we give this generator utility this product name.

Who need it?

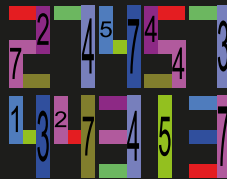
Label producers works together with the brand owner who want to colorize the label and make it attractive.

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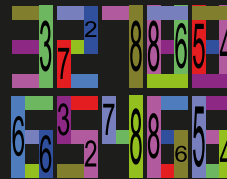
8835336133



8866843681



2745744313



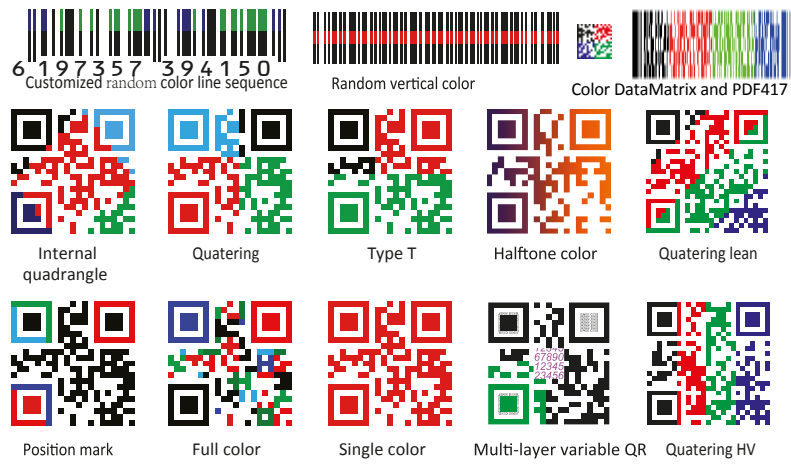
3278865466

Random Color Barcode Module

Random Color Barcode Module is a one-stop solution for random colorful barcode generation. It includes dozens of color barcode types that is widely used for the product promotion. Its color value and the color position information can also be used as an useful product authentication method. Different from other developer, besides the most types and their extensions, we also support many professional features, such as transparent, overprint, blend, white edge, mirroring, CMYK/ Spotcolor...etc. Multi-layer variable QR is also included in this suite.

Who need it?

Label producers works together with the brand owner to do marketing campaign and brand protection.



Note: This module must work with VariPrint

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Latent Image Module

Latent Image Module is an optional module working with VariPrint. It is a traditional security feature, Haiyaa's effort is to make the hidden watermark variable. You see nothing if viewing vertically, but can see the hidden watermark if viewing from a certain angle. The latent image quality is related to digital printer's own status closely, stronger light reflection of the ink, the effect is better.

Who need it?

Label producers works together with the brand owner who want to do brand protection and security printing.



See the latent image from a certain angle



See the latent image from a different angle

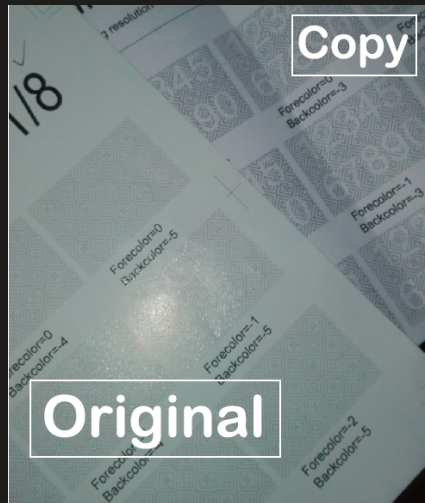
Anti-Photocopy Module

Anti-Photocopy Module is an optional module working with VariPrint. It is used to differentiate which one is original print and which one is photocopy. You can't see the hidden watermark in the original print. but use general photocopier to copy it, the hidden watermark will come out. It is better to work with microtext to get the best security effect.

Who need it?

Diploma and certificate printing company is the most adaptive user of this feature.

Note: Must use the printer's resolution to print this pattern to PDF.



Microtext Module

Microtext Module is working with VariPrint. Different from other so-called microtext, our microtext is pixel based instead of making truetype font smaller. So Haiyaa microtext is the world smallest microtext printed by digital printer.

- Built in microfont at up to 5x6 or 5x7 pixel matrix related to printer's resolution.
- The Height of microtext reaches to 0.25mm using HP Indigo.
- The Height of microtext reaches to 0.14mm using Fuji Film JetPress.
- Support random color matching to another random color text in the same label.
- Can customize user' own microfont and embed into VariPrint.

Who need it?

Label producers works together with the brand owner who want to do brand protection and security printing.

ID Card

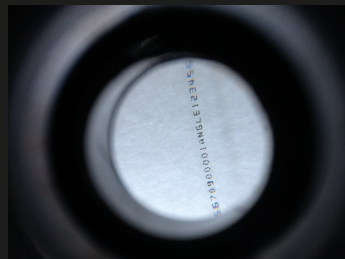
Cloth Label

Track-trace

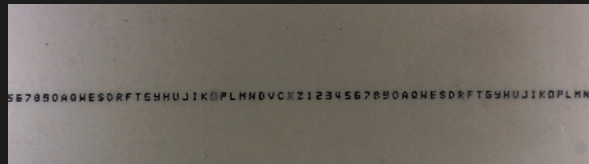
Product Promotion

Security Printing

VDP



This is the photo taken by ipad plus magnifier. It is printed on HP Indigo 6600.



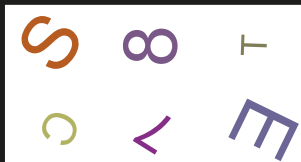
This is the photo taken by geanee electronics magnifier. It is printed on Fuji Film JetPress 750.

Random Color Text Pattern

Random Color Text Pattern generator is a standalone generator belong to HPGS(Haiyaa Pattern Generator Suite). Seeing the characters inside the pattern image, its size is randomly, color is randomly, rotation degree is randomly and position is randomly. The pattern image works with 2D barcode as one of the popularly used product authentication solutions.

Who need it?

Label producers works together with the brand owner who want to do brand protection and security printing.



Digital Fiber Pattern

Digital Fibre Pattern generator is a standalone generator belong to HPGS(Haiyaa Pattern Generator Suite). The pattern image is combined with curve or straight lines. The color and the type of the lines are randomly. The pattern image works with 2D barcode as one of the popularly used product authentication solutions.

- 1 million 30x30mm patterns take about 50 minutes to generate. Among the output, 1 million are high res PDFs for printing, another 1 million are low res PNGs that will be uploaded to the cloud.
- Guarantee there is no repetition among 1 million patterns.

Who need it?

Label producers works together with the brand owner who want to do brand protection and security printing.



AveragePattern



StraightLinePattern

Digital Pill Pattern

Digital Pill Pattern generator is a standalone generator belong to HPGS(Haiyaa Pattern Generator Suite). The pattern image simulate the pill. The color and layout of the pills are randomly. The pattern image works with 2D barcode as one of the popularly used product authentication solutions.

Who need it?

Label producers works together with the brand owner who want to do brand protection and security printing.



PillPattern

Digital Bacteria Pattern

Digital Bacteria Pattern generator is a standalone generator belong to HPGS(Haiyaa Pattern Generator Suite). The pattern image simulate the bacteria. Its color and layout are randomly. The pattern image works with 2D barcode as one of the popularly used product authentication solutions.

Who need it?

Label producers works together with the brand owner who want to do brand protection and security printing.



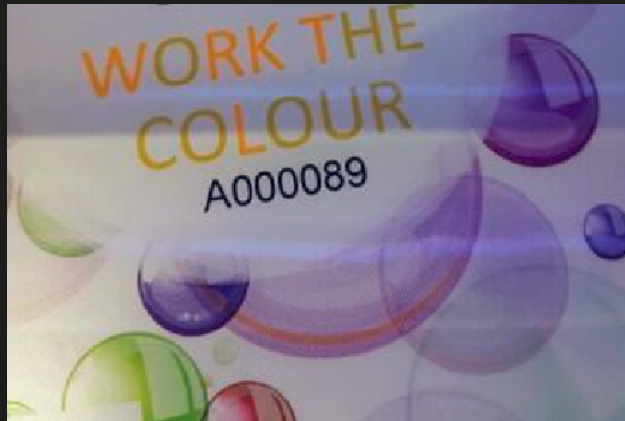
BacteriaPattern

Random UV Characters

Random UV Characters generator is a standalone generator belong to HPGS(Haiyaa Pattern Generator Suite). The purpose is to make full use of UV ink and random characters to form a random UV character effect inside the variable text. That means we can generate random characters which color will be printed by UV ink and blended with the bottom text. Under the normal sunlight, it appears the same color variable text, but under UV light, you can see some characters appearing UV effect. Since during the text generation, we already save the information of the random UV characters at the background. So this feature can be used for future production authentication by the brand owner.

Who need it?

Label producers works together with the brand owner who want to do brand protection and security printing.



This sample is prined on HP Indigo
This is the photo taken under UV light

Kaleidoscope Engine Database

Kaleidoscope Engine Database is a standalone generator belong to HPGS(Haiyaa Pattern Generator Suite). It is an extension of normal Kaleidoscope Engine. Different from normal Kaleidoscope Engine, the color of the patch is defined by the field content of the data file. So more than for attractiveness, it can also be used as the product authentication method by both of the brand owner and the consumer. It can also be used for product customization.

Who need it?

Label producers works together with the brand owner who want to do brand protection and security printing. Product color customization.



EDWARD 's own product

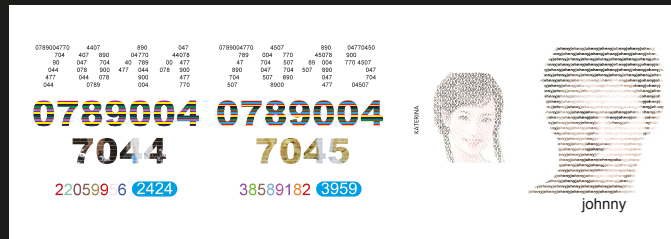


FontInFont PictureInFont LineInfont Module

FontInFont PictureInFont LineInfont Module is working with VariPrint. FontInFont means there is variable text inside variable text. PictureInFont means the variable picture image is combined with variable text. LineInFont means the variable text is combined with random sequence color lines. They are all special effect variable text and can be used as security printing features.

Who need it?

Label producers works together with the brand owner who want to do brand protection and security printing.



Lenticular Image Module

Lenticular Image Module is working with VariPrint. The user rotate lenticular film to different angle(Note: we support up to 4 layers), he can see different hidden watermark come out. The minimum font size can reach to 7 pt. The pattern color support CMYK and spotcolor. It has high productivity: 8 hours to generate 500K pcs of 4 variable layers pattern image with 20x50mm size using normal configuration PC.

Who need it?

Label producers works together with the brand owner who want to do brand protection and security printing.



One-year Maintenance Agreement

We generally provide one-year maintenance for all of Haiyaa software free of charge. The maintenance service includes regular software updates, remote training, online technical support and share all of our technical resources.

After one year warranty, the user can choose to buy new maintenance agreement. New maintenance agreement includes regular software updates and priority technical support.