Features

Color management

- Kothari VDP Pro™ is ICC aware, color managed application.
- Uses Embedded ICC profiles in the image files or assigns default profile to RGB and CMYK images (if no embedded profile is present).
- Assigns default profile to color of every drawing object.
- Integrated CMM.
- Choice of output profile to RGB printer. Profile embedded in all the exported output files.

Drawing Tools

- Text (Fixed / variable)
  - Simple
  - Curve
  - Rich Text
- Barcode (Fixed / variable)
- Image (Fixed / variable)
- Date-Time (Fixed / Variable)
- Mask (Fixed)
  - Image based (as Grayscale)
  - Predefined Shapes (Rectangle (Plain/Round), Ellipse, Diamond)
- Grid Tables (variable and fixed objects inside the cells)
- Calendar (Fixed / variable)
- Shapes (Fixed)
  - Line
  - Rectangle (Plain and Round)
  - Circle/Ellipse
  - Path
    - Polyline
    - Polygon
    - Irregular shapes

General

- Various attributes like outline color, filling color and pattern, background color and pattern and transparency can be defined for most objects.
- All variable objects can be linked with various variable data sources .
- Use VB/Java script to format data from various sources.
- Supported variable data input sources -
  - Keyboard
  - Number counter
  - Date-Time counter
  - Database
- Multiple counter can be defined and formatted for a single object.
- Base representation for Numeric counters can vary from 2 to 36.
- Unicode support for multilingual text.
- Grids and Guidelines for easy placement of objects.
- Organize preset graphics and stock objects into user defined categories for easy recall and use.
- Mask shapes offer easy way to create shape cutouts in the underlying objects.

Image handling

- Support popular image formats like BMP, DIB, EMF, GIF, JPG, PCX, PNG, PSB, PSD, TGA, Tiff, WMF, and AI/PS/EPS/PDF/PLT*.
- Handles large size images with ease by the help of 'Memory Management Module' that uses hard disk as scratch space.
- It recognizes and support variable transparency in Images.
- Image transformations like rotation, flipping, placement with transparency support.
- You can place images with different color profile and colorspace (like CMYK, RGB, Lab, Indexed, grayscale and multichannel) in single template file simultaneously.
- Images can either be referenced as file path in template file or can be physically embedded.
- Multiple pages of a single PDF can be handled as variable image.

For further details contact

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Barcodes

1D

- Supported linear barcodes are Codabar, Code11, Code128, Code16K, Code32, Code39, Code39FullAscii, Code93, DAFT, Datalogic2Of5, DPIdentCode, DPLetiCode, IATA2Of5, Industrial2Of5, Interleaved2Of5, ITF14, ITF16, KIX, LOGMARS, Matrix2Of5, MSI, PatchCode, PharmaCodeOneTrackMiniature, PharmaCodeOneTrackStandard, PharmaCodeTwoTrack, PZN, SCCC18, Telepen, TelepenNumeric.
- Supported postal barcodes are AustraliaPost, Planet12Digits, Planet14Digits, Postnet32, Postnet37, Postnet52, Postnet62, RoyalMail, USPSIntelligentMail.
- Supported EAN/UPC barcodes are EAN13, EAN13Plus2, EAN13Plus5, EAN14, EAN8, EAN8Plus2, EAN8Plus5, ISBN, ISBNPlus2, ISBNPlus5, ISMN, ISMNPlus2, ISMNPlus5, ISSN, ISSNPlus2, ISSNPlus5, UPCA, UPCAPlus2, UPCAPlus5, UPCE, UPCEPlus2, UPCEPlus5.
- Supported GS1 barcodes are GS1Databar, GS1DatabarExpanded, GS1DatabarExpandedStacked, GS1DatabarLimited, GS1DatabarStacked, GS1DatabarStackedOmnidirectional, GS1DatabarTruncated.

2D

- Supported 2D barcodes are Aztec, AztecRunes, DataMatrix, Maxicode, MicroPDF417, MicroQR, PDF417, QR.

Database support

- Support inputs from multiple database for the objects in the same template.
- Can connect with external database servers to pull variable data. Supported databases are CSV, DB2, dBase, MS Access, MS Excel, FoxPro, Informix, Oracle, PostgreSql, SQLite, MS SQLServer, MySQL, Sybase IQ, and other ODBC data sources.
- Capable of handling large databases with millions of records for variable data printing.
- Query builder to create queries and joins for fetching data from the database.
- Multiple columns can be merged and formatted for a single object.
- Ability to group, sort and filter on existing database fields.

Printing and Automation

- Nest multiple prints on the same page and preview each page.
- Apply mask shapes on the full page at the time of printing.
- Connects and prints to any MS Windows printer in user defined RGB colorspace.
- Export prints as images with transparent background at user defined resolutions in various image formats including PDF with embedded profile.
- Hot folders for automating the task of printing to various printers or exporting images.

* AI/PS/EPS/PDF/PLT is an optional feature.
** This specification is only general description of features in Kothari VDP Pro™. Features can vary across various versions.

Minimum System Requirements

- Operating System: MS Windows 7 (32 bit) or later.

- Processor: Intel i5 2.3 GHZ or faster.

- RAM: 4GB.

- Hard Disk: High speed SATA interface. Size depending upon the usage requirement (Kothari VDP Pro™ uses hard disk as primary scratch space for storing image files). Recommended 500 GB or more free hard disk space.

- Monitor: Resolution of 1024x768 or better, 24 bit color or better.
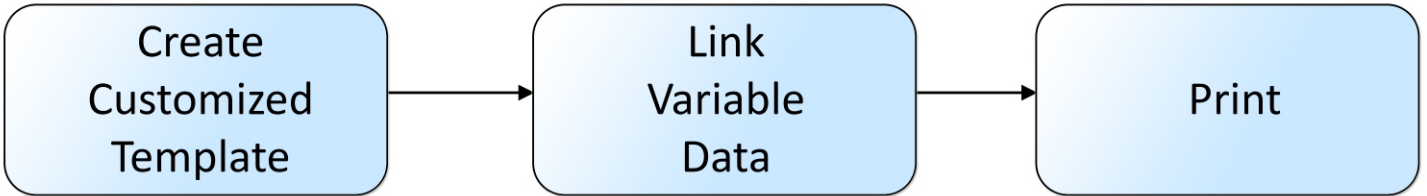
Specifications subject to change without notice.

Kothari Info-Tech (P)Limited

ID Card Printing

Label/Document/Photo Album Printing

Labels   Documents   Reports   Calendar

Mass Customization

Create Customized Template → Link Variable Data → Print

Built for the patterns in printing, Kothari VDP Pro™ is a simple to use tool with an intuitive interface for mass-customization of prints and variable data printing… Design your own label, Id card, invoice, report, calendar, photo-book, customized T-shirt design and other illustration templates that can be populated with variable data inputs at the time of printing.
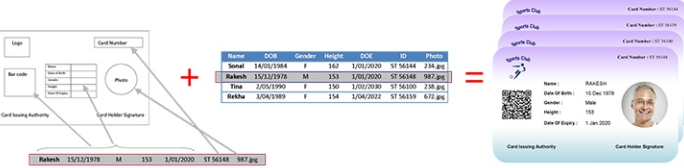
Kothari VDP Pro™ v1.0

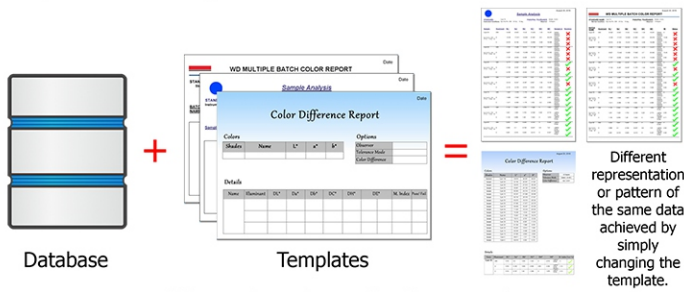*....Your variable data print designer*

For the patterns in Printing.

Kothari VDP Pro™ has been designed with this stated objective in mind. The tool provides the user with flexibility in printing designs where there is a pattern in the form factor/ layout of visual elements and the only variable is data and the design elements. This not only reduces the burden of designing individual prints with changed data but also boosts the productivity many folds. Imagine situations like printing of labels, identity cards, invoices, sale and marketing reports, school mark sheets, calendar etc., where the pattern of data representation is fixed but the data changes with every copy of the print. Such pattern of data representation can be defined as a template and the data can be bound to this template at the time of printing, resulting in copies of print with individual data, as illustrated below –

Defining a pattern and binding data for printing

On the other hand, if you change the template then the form factor of the print also changes. See illustration below.

Database + Templates = Different representation or pattern of the same data achieved by simply changing the template.

Different form factor for the same data

The possibilities that are there with this decoupling where the data is separate from its representation, are endless. Combination of variability in data and various templates can be exploited to drive more personalization of the communication based on each targeted person's choices and preferences.

Imagine a scenario, instead of having monotonous invoices, the end users can create own representative format that suits their branding strategy. Users can also have tailor made ID cards, instead of a fixed option provided by the IT system. Kothari VDP Pro™ can integrate with existing database systems by pulling data through ODBC interface or through csv and text files.

In yet another scenario, a user can use the system to generate images for the purpose of mass customization of promotional items like T-Shirts, mugs, key chains and other merchandises.

In short, Kothari VDP Pro is an ideal solution for any on-demand printing application employing patterns of data layout, including labels, markings, signs, graphics, print forms etc.
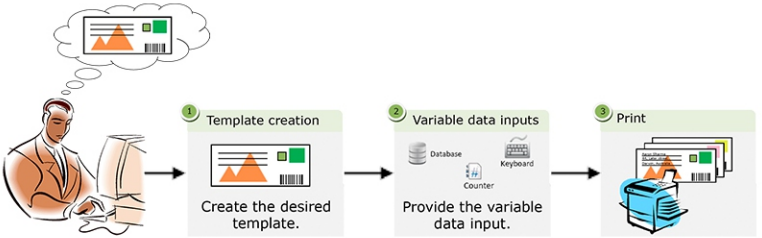
Possibilities for use are limitless and the use can be seen almost anywhere from schools, businesses, homes to personal use...

This is how it works!

Step 1. User defines templates and Loosely binds the data fields with design elements.

Step 2. The data fields are populated with data at the time of actual printing by pulling data from the data sources. Even the visual elements of the design can be specified through the database.

Step 3. The VDP software combines the data and the template to create the final copy of the print.

Template creation → Create the desired template. → Variable data inputs → Database, Keyboard, Counter → Provide the variable data input. → Print

How it works?

Design and Editing tools.

Kothari VDP Pro™ offers powerful and easy to use design, layout and editing tools. The most important part of the Kothari VDP Pro™ design strategy is, that it is color managed. There is a color profile tagged with the colors in every design element. Embedded profiles in the Images are recognized and used to represent the correct colors. Input images can be in the RGB, CMYK or Lab format with variable transparency. It offers tools to create 1D and 2D Barcodes, Text, Curved Text and Rich Text, add and manipulate Images, Tables, Calendar, Date and Time, Counter, draw objects like Circle and Ellipse, Rectangle and Round Rectangle, Line, Path (Polylines, Polygons, Irregular and Freehand drawn shapes) and apply Mask. Each Text and Drawing Object has various definable attributes that includes its drawing color, filling "color and pattern" and transparency. Images can be fixed or variable supplied at the time of print through data binding.

Tools available in Kothari VDP Pro™

Tables are very powerful design elements. Every cell in the table can have its own variable or fixed data/ design element or even another table nested. The tables can either have fixed number of rows or columns or have them variable in which case it automatically extends its rows and columns based on the data. This extension in length or width can be be across the printable page and could also fall over into another page.

Name	Illuminant	DL*	Da*	Db*	DC*	DH*	DE*		M. Index	Pass/ Fail
Cyan 95	D65	1.516	0.8	1.054	-1.323	0	2.012	Lighter Duller	0	✓
	A	1.818	2.226	1.606	-2.656	0.69	3.292	Lighter Duller Redder	2.15	✓
	C	1.514	0.727	1.04	-1.268	0	1.975	Lighter Duller	0.13	✓

Table with cells of different width, height and object properties

Labels, Barcodes and more...

Generating Labels is a common need of any business. Industries need to generate labels in certain specific ways to meet local compliances. These compliances can differ from geography to geography. On the top, these compliances continue to change with time. It's difficult for enterprise systems to keep up to date with these evolving compliances. In addition, there are always specific branding needs of businesses through their labels and related communications. While database remains more or less the same, the changing form factor doesn't warrant a continuous programming effort for upgrading the corporate systems, to meet the changing requirements of labelling. Kothari VDP Pro can handle this with ease by decoupling the representation from its data , making your business more responsive and adaptive to changes in labelling. With the help of over 75+ supported 1D, 2D and Composite barcodes, unicode text, pre-defined industrial symbol library, expressions, counters, date and time stamp and linked fields to existing database, user can design labels to meet the evolving compliance needs without any programming effort.
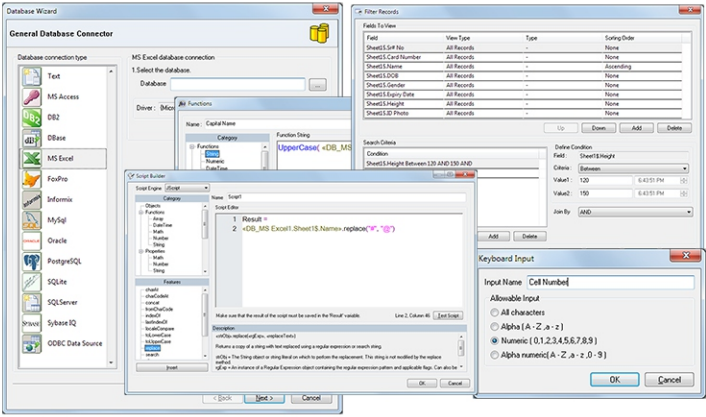
Various labels

Think of another situation where labelling regulation just changed requiring a new format. A traditional IT system will require reprogramming to address this requirement, which is both costly as well as time consuming. Whereas, with Kothari VDP Pro™ this can be achieved within no time by simply creating a new template meeting the requirements of the new regulation.

Variable Input and Database tools.

Kothari VDP Pro™ supports various methods of providing variable data inputs for the prints, namely Keyboard, counter (for sequencing) and database. User can format data using VBScript/ JavaScript and predefined functions. Formatting can simply be concatenation, case change, number to word conversion to complex task defined by custom procedures written in VB/Java script.

Kothari VDP Pro™ can link directly to external database server for variable inputs. Supported databases are CSV, DB2, dBase, MS Access, MS Excel, FoxPro, Informix, MySQL, Oracle, PostgreSQL, SQLite, MS SQLServer, Sybase IQ and other ODBC data sources. Kothari VDP Pro™ has ability to handle large databases with ease. It can process millions of records for variable data printing. The inbuilt query builder allows user to write custom queries, join tables and apply conditions, functions and filters to the generated data. The user can pull data from multiple heterogeneous database sources for the same print job.

Any number of dynamic fields like text, Rich text, curved text, barcodes, images and vector arts, tables, date time can be inserted in the same template linked to the database. The text input can be multilingual. Kothari VDP Pro™ supports images with variable transparency as input.

Various input methods and database tools

Automation and Printing.

Kothari VDP Pro™ offer automated queues mapped to a printer or an export folder. These queues are called Hot Folders. User can input the jobs in this queue as either a simple text file containing the name of the template, start and end labels (when the template file is a simple file with mostly fixed data and some counters) or a text file with template name and CSV for variable data, or in the form of a XML tree containting the name of the template to be used and variable data for each item in the record. Kothari VDP Pro™ monitors any incoming jobs in these folders and print accordingly on the acssociated printer or exports the images in the desired format and resolution with transparency.

Mask.

Mask in Kothari VDP Pro™ can be used in two ways. As a part of design to clip the underlying objects. Since the mask is also based on grayscale image, it can be used to have variable transparency effect. Another application of mask is on the overall output page applied at the time of print to the printer output. Again this mask can be a grayscale image leading to variable transparency.

Mask applied on the image in calendar

Mask applied on the full print

Mass Customization.

Kothari VDP Pro™ in combination with its various design tools, variable data input and automation can be used to generate images for mass customization with transparent backgrounds, which is essential for today's mass customization workflows, particularly when printing with white ink.

Generated images with transparent background