# iDigit®

## Intelligent Pattern Digitising

- **Up to 5 times faster digitising**
- **Increased Productivity**
- **Reduced Costs**

iDigit XL - up to 300x150 cm

iDigit Lite - up to 150x120 cm

MADE IN BRITAIN

www.i-digit.co.uk

**CONTACT US**

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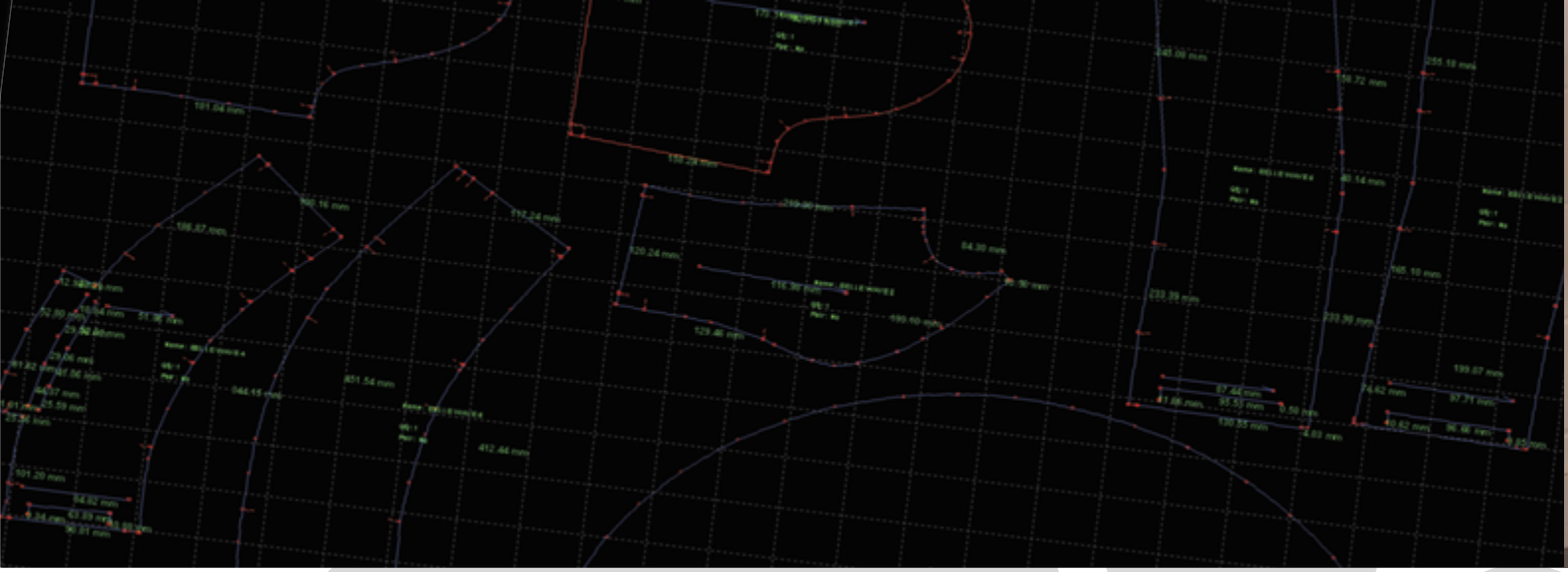


# What

iDigit is a pattern/template digitising software (a.k.a photo digitizer) that digitalizes 2-dimensional patterns from a picture, which are later exported into a CAD/CAM system for further processing, plotting or cutting. The digitised patterns can be of any size, colour and material including paper, card, plastic, plywood, fabric, calico, leather, mylar, metal etc.

# How

Laying out the patterns alone typically takes several minutes with table digitisers, and involves adhesive tape which is time consuming to stick and remove. Manual digitising records only one point at a time and takes even longer. Also most photo digitisers require calibration which takes a considerable amount of time and causes disruptions.
With iDigit you avoid all of these setbacks and achieve fast and accurate pattern digitising.

# Why

iDigit was developed as an all-in-one solution to common problems related to traditional digitising methods: speed, accuracy and cost.

iDigit allows professional quality digitisation and processing at a fraction of the cost of traditional systems whilst requiring almost no training or maintenance budget! iDigit allows for superior speed & accuracy and the capture of details like notches, cut-outs, internal lines, drill holes and grain lines. Better still, because the tedious process of calibration has been completely removed, it is less prone to error even after being moved repeatedly. Not only does this compact, portable camera-based system give you back several square meters of precious floor space, it gives you back a much more precious commodity – your time!

# Who

CHANEL
MARKS & SPENCER
BIRMINGHAM CITY University
Karpelle
Qri
STILETTO
QRI LONDON
TADASHI SHOJI
asos
TOMMY HILFIGER
LSU
LOUISIANA STATE UNIVERSITY
Brenau University 1878
NHS
MOTUS
INTEGRATED TECHNOLOGIES
THANNER
FBFX
McCONAGHY boats
Wassookeag
DC Valeting.com Detailing Specialist
PERCIVAL AVIATION
ICON Aerospace Technology
RS Sailing
Sunseeker
RACEMARK
DOWLE
VEHICLE ENHANCEMENT SPECIALISTS LTD
PALM FIBRE COCO MATS
SeaRay
SeaDek MARINE PRODUCTS
iTelos
CristexCompositeMaterials
COMPOSITES YOU CAN TRUST
COBALT BOATS

## Fast
iDigit is the fastest way to digitise patterns today, thanks to its calibration-free digitising technology.

## Compact
iDigit's magnetic board is affixed on a wall, giving it an ultra-low footprint that fits any workspace.

## Auto Calibration
iDigit calibrates itself, making it accessible to any user and eliminating any downtime that manual calibration may cause. You can take pictures of patterns from a different position each time and iDigit will always produce the same accurate results using its intelligent correction algorithms.

## Precise
iDigit converts pictures into patterns with all the precision you would expect from the best table digitisers. The standard 150x120 cm board allows digitising large patterns with +/- 1mm tolerance while the smaller 90x60 cm board achieves precision as high as +/- 0.25 mm.

## Reliable
iDigit is second to none when it comes to reliability. It is extremely forgiving and sustains consistent results even in difficult conditions. It requires minimal maintenance.

## Wear & Tear
iDigit's magnetic board allows patterns to be fixed on the surface using magnets rather than adhesive tape, protecting your patterns against wear and tear.

## Versatile
iDigit suits every working environment thanks to its flexible configuration. It can be either mounted on a wall or laid flat on a table. You can digitise patterns of any size, any material and colour:

- **Size: :** iDigit can accommodate patterns up to 3 meters wide on its custom-made board. Also, smaller boards can digitise patterns larger than their size using our easy partial digitising technology. iDigit also can digitise patterns as small as 5 cm in diameter accurately using its high precision 90x60 cm board.
- **Material:** iDigit can digitise patterns made of paper, card, plastic, plywood, fabric, calico, leather, mylar and metal, regardless to the condition of the patterns – new or old. iDigit can smooth out rough edged patterns automatically.
- **Colour: :** iDigit's magnetic board can optionally have a black or white background depending on the application which makes it possible to digitise patterns of any colour, even transparent ones.

## Compatible
iDigit is compatible with all major CAD/ CAM software via Dxf export. Compatible systems include Gerber, Assyst, Lectra, Optitex, Gemini, StyleCAD, Polypattern, AutoCAD, Adobe Illustrator, SolidWorks, Corel Draw, PAD system and many more..

## Automatic Feature Detection
iDigit digitises cut-outs, notches, drill holes, internal lines and grain lines automatically while ignoring the magnets.

## User Friendly
iDigit extremely easy to learn and operate which allows nearly any user to use it with ease

# Applications

## Apparel

Garment patterns have a wide range of varieties in terms of size, material and pattern features. They often have notches, internal lines and some have drill holes and cut-outs. These could be made of white paper, brown card or fabric of wide variety of colours. Although they are cut out to the shape most of the time they could be drawn inside the paper or card sometimes. iDigit is equipped with collection of functions designed to cope with challenges that come with any sort of patterns used in Apparel industry including automatic detection of features(notch, drill hole etc.), ability to digitise dark coloured patterns and hard-to-digitise fabric or worn-out paper patterns.

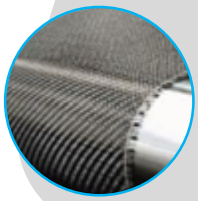
## Furniture

Furniture patterns often come with notches of different types (slit, V notch etc.) and might have drill holes and cut-outs. You can easily digitise furniture patterns with iDigit whether they aremade of paper or any actual furniture material such as leather, suede and other similar patterns that are reverse-engineered.

## Automotive

Patterns in Automotive Industry can be very tricky to digitise due to the number of details they have, such as outward notches, small cavities, drill holes and cut-outs. iDigit catches every details of these patterns, giving you an accurate representation of the original template. When it comes to car mats, it is quite possible to digitise an actual car mat made of thick material. In addition to interiors, iDigit is also widely used for digitising vehicle livery and sign patterns. These patterns are typically traced on transparent sheets such as mylar and can be extremely large. iDigit provides a tailored solution for this type of application with out XL size white board.

## Composites



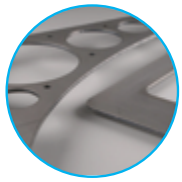
Composites are often used in engineering applications so the types of templates that need to be digitised are immense. Templates are often made of the actual composite material and they may have rough edges as well as poorly defined features such as drill holes and cut-outs. They can be glossy which challenges most photo digitisers. iDigit is field-proven with composites materials thanks to its ability to smooth-out rough edges and even correct the worn parts.

## Aviation

iDigit is widely used in aviation industry in production of aircraft interiors and accessories. These are often made of intricate patterns with many internal markings such as drills, lines and cut-outs which can be detected automatically.

## Marine

Marine industry often uses large patterns which can be a few meters long. These are used on the interior or exterior of boats and yachts which can be made of paper, plywood or in case of boat decking; mylar. iDigit XL can handle all these use cases easily by adjusting just a few settings such as board size and colour.



## Metal Sheets

Metal sheets industry is all about internal cut-outs. A typical template can have tens of internal cut-outs of different shapes and sizes which makes them extremely complex and very hard to digitise manually. All the cut-outs and drills of metal sheets can be detected in seconds with great accuracy.

## Leather/Footwear

Footwear and leather applications require precision before all, due to small templates. iDigit produces top notch results with smal l patterns, detecting all details and internal features.



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