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Onset X: Overview

The powerful Onset has established itself as the **leading UV flatbed platform** for the production of high quality, high impact display graphics with outstanding productivity. Now the latest generation Onset X is setting a **new standard in high-end flatbed production**, with new levels of productivity, quality, reliability and future-proof scalability.

Key features

- ▶ Direct to media UV flatbed inkjet printing

- ▶ Productivity options: from 40 to 180 beds per hour

- ▶ Printhead drop-size options: 9, 14, 27 picolitre

- ▶ Colour options: CMYK, light cyan and magenta, orange, white

- ▶ 25 zone vacuum table

- ▶ Powerful and intuitive GUI

- ▶ Maximum media size: 3.22 x 1.6m

- ▶ Media handling options

- ▶ Four investment entry points:

  Onset X1 LT: 40 beds per hour

  Onset X1: 80 beds per hour

  Onset X2: 128 beds per hour

  Onset X3: 180 beds per hour

Highest consistent print quality at the highest productivity

Onset X produces higher print quality at higher speeds than any other UV inkjet printer. Onset consistently maintains this performance throughout its lifetime.

Outstanding reliability and production uptime

Onset printers have a justified reputation for extraordinary reliability, achieving 90% uptime. Intelligence features enable the Onset X to maintain optimum performance. Inca Vision support software can monitor and diagnose potential problems remotely before they occur.

One investment that can grow with your business

Scalable Architecture enables a machine to be tailored to meet individual business needs at the time of initial investment, and then allows for future expansion. Onset X is built to enable printhead configurations to change and grow without having to change other parts of the machine.

Versatility to handle most applications

Produce stunning images for indoor and outdoor display more efficiently than any other process. From everyday signage to the highest quality backlit displays for demanding markets such as cosmetics and luxury consumer goods.

Fast, efficient operation

With a zoned vacuum bed, media change-over takes seconds, so long run jobs can be easily mixed with bespoke one-offs. A simple interface and straightforward maintenance routine means Onset X does not require highly skilled operators.

Powerful UV flatbed production

Highest consistent print quality at the highest productivity

Excellent build quality
Designed and built in the UK by Inca Digital, the quality of engineering design and component selection is outstanding. The print engine, control systems and fast moving print bed are built on a very robust chassis which enables pin-point drop placement accuracy for billions of drops per second, all day, every day.

Full-width printhead array
The printhead array spans the whole width of the print bed. The carriage doesn't scan across the media, so images do not suffer from textural banding.

Full-width UV lamp system
Multiple UV lamps allow for fast bi-directional print. The system can vary the UV dosage for curing the ink to produce a choice of print finishes from low-glare satin to high-impact gloss.

Fujifilm ink chemistry
Uvijet inks are designed specifically to meet the very high performance requirements of Onset X. They are manufactured with Fujifilm's unique Micro-V dispersion process which enables the ink to have a higher pigment concentration, resulting in strong, vibrant colours.

Outstanding reliability and production uptime

Industrial printheads
Fujifilm Dimatix printheads have proven their reliability in full production for many years. It's not uncommon for some competitive printers to require replacement printheads every month, but 75% of Onset machines did not need a single printhead replacement during 2014.

Intelligence features
Intelligent features enable Onset to monitor its own condition to maintain optimum performance and print quality and minimise printhead deterioration or damage. They include: intelligent cleaning, print quality management, vacuum bed monitoring, material height detection and efficiency software.

Enhanced support through remote monitoring
Inca Vision is a software-based customer support service unique to Inca Digital, developed to ensure that operators implement regular preventative and corrective maintenance. Inca Vision lets Inca remotely and regularly monitor and diagnose printers in the field, conducting diagnostics to determine how well they are performing and decide whether there is a need for engineering support.

Service and support network
Onset installations are supported by warranty, parts and service package options, tailored to best suit your business. Front-line support is available in every region using engineers certified by Inca's training facility in the UK.

One investment that can grow with your business

14 channel capability
Key to its flexibility is the unique 14 channel capacity built into every Onset X. The channels are configured as follows:

1. Define productivity level by specifying number of CMYK sets: The starting point is four channels with a single CMYK configuration. An additional set or two sets of CMYK channels can be added to increase productivity.

2. Define quality level by selecting printhead drop size: Choose between a 9, 14 or 27 picolitre fixed drop size. A small drop size is right for you if you produce a lot of very high quality work intended for close viewing.

3. Define application versatility by selecting additional colours: Choose a combination of light cyan, magenta, orange and white inks.

Versatility to handle most applications

Powerful vacuum bed
Onset's powerful vacuum bed holds 40kg media at full speed (80kg at mid-pace). Precision engineering means accurate registration for double-sided print.

Print on a wide range of materials
Onset X prints directly to a wide range of rigid and flexible materials: from standard display to industrial sheet media. Dedicated ink ranges are available for specialist applications like corrugated board and polypropylene.

Additional colour options
White inks: Use spot, flood or greyscale white to print on clear and coloured materials and produce special effects.

Light inks: Produce smoother gradients and skin tones.

Orange ink: Produce vibrant reds and oranges, enhanced skin tones and accurate spot colours.

Fast, efficient operation

Choice of media handling
Onset X handling systems can be semi- or fully-automatic and configured to best suit your production environment. Short-run jobs can be printed with manual loading and take-off.

Versatile vacuum bed zones
The powerful vacuum flatbed table features 25 zones to accommodate a wide range of media sizes. This reduces the amount of bed masking required.

Simple operation
The GUI provides a powerful yet simple-to-use printer and job management tool. It is easy to initiate and finalise jobs, save settings, create print queues and manage and optimise every stage of the print process.

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