



# Anapurna FB2540i LED

High-speed 6-color plus white UV LED-curable flatbed inkjet printer

UV LED



**AGFA** *Agfa*

STAY AHEAD. WITH AGFA GRAPHICS.

# Anapurna FB2540i LED. True flatbed. True quality. True value.

## High productivity

The Anapurna FB2540i LED is a high-speed LED UV-curable inkjet system on a moving gantry flatbed. It is an ideal engine for both step-and-repeat work and for printing multiple jobs on differently sized media. Borderless printing avoids an extra finishing step, saving time and money. Thanks to the multilayer printing feature the Anapurna FB2540i LED prints several color and white ink layers in one run.

## Excellent print quality

Anapurna FB2540i LED can print on practically any rigid and sheet material. It delivers exceptional print quality on a wide variety of indoor and outdoor media such as corrugated boards, plastics, plexiglass, mirrors, exhibition panels, wood, aluminum, and MDF. White ink and six colors with 12 pl print heads allow it to deliver prints that will give you and your customers a competitive advantage. The high-density color printing function makes prints even brighter and more intense.



In-house decoration – dibond



In-store communication – forex



Outdoor communication – vinyl



### UV LED PRINT TECHNOLOGY

Equipped with powerful, air-cooled 16 Watt/cm<sup>2</sup> UV LED lamps for the curing process, the hybrid Anapurna LEDs come with a number of economical, ecological and business-generating benefits:

- LEDs are cool to the touch and have minimal heat output, which is why they allow for a broader scope of print applications. They enable you to print on heat-sensitive substrates such as thin slides, self-adhesive sheets or stretched PVC materials, for example. In addition, limited heat generation involves a very stable bi-directional calibration.
- LED lamps can be switched on and off instantly, without any degradation of intensity. That means there is no lamp warm-up time or delay for shutter motion. The result? Faster operations and higher productivity.
- LEDs last for at least 10,000 hours each – as long as 5 years, or a printer's lifetime. They generate a consistent output throughout that period with no lamp change downtime or any consumable lamp costs.
- LEDs have a maximum energy consumption of 1 kWh per module, which leads to significant power savings.
- As UV LED lamps don't contain mercury, there is no need for mercury disposal or any related costs. Also, LEDs don't produce ozone gas that needs to be extracted by ventilation.



Outdoor communication – vinyl



In-house communication – dibond

# Designed for the greatest possible

## Reinforced beam

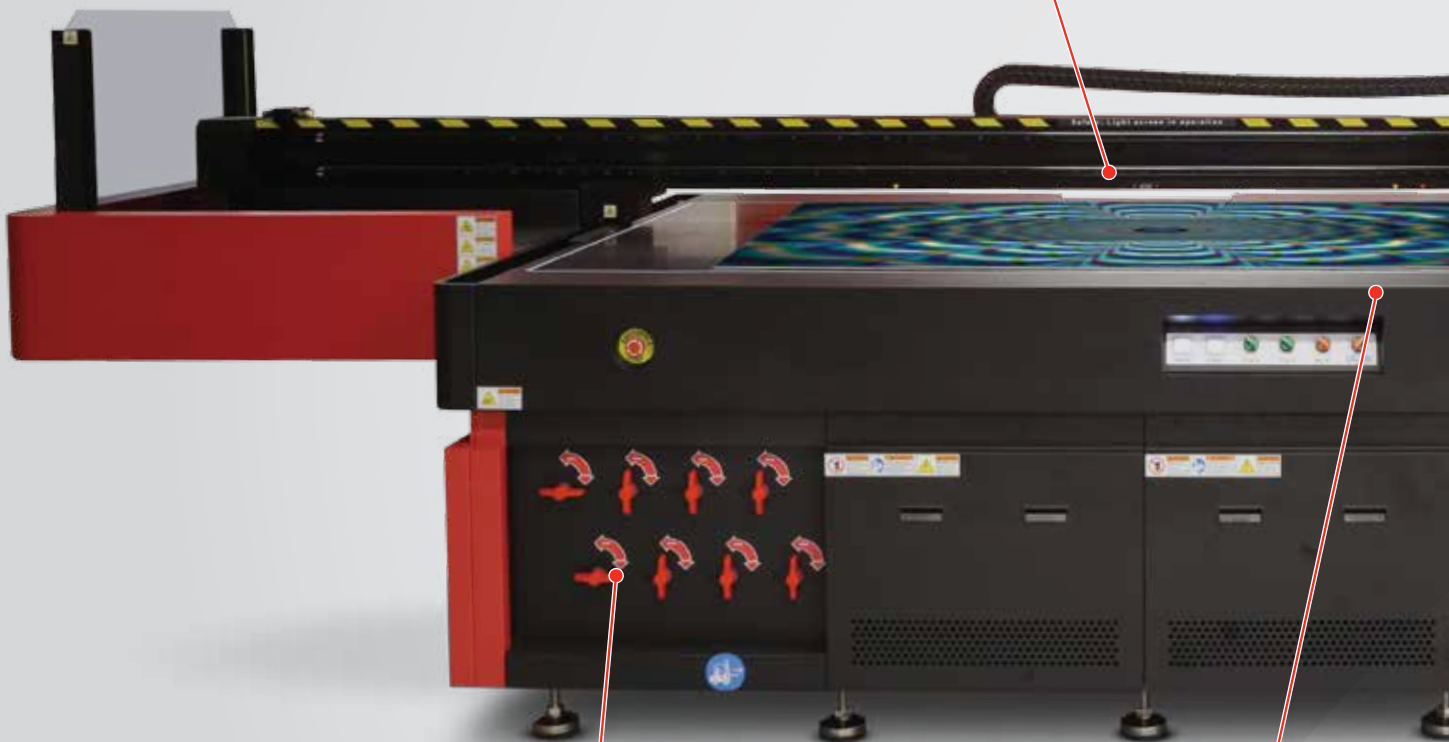
The welded steel beam with its aligned rails, encoder strip, and servo motors allows flawless movement and perfect positioning of the print head shuttle.

## High-tech vacuum system

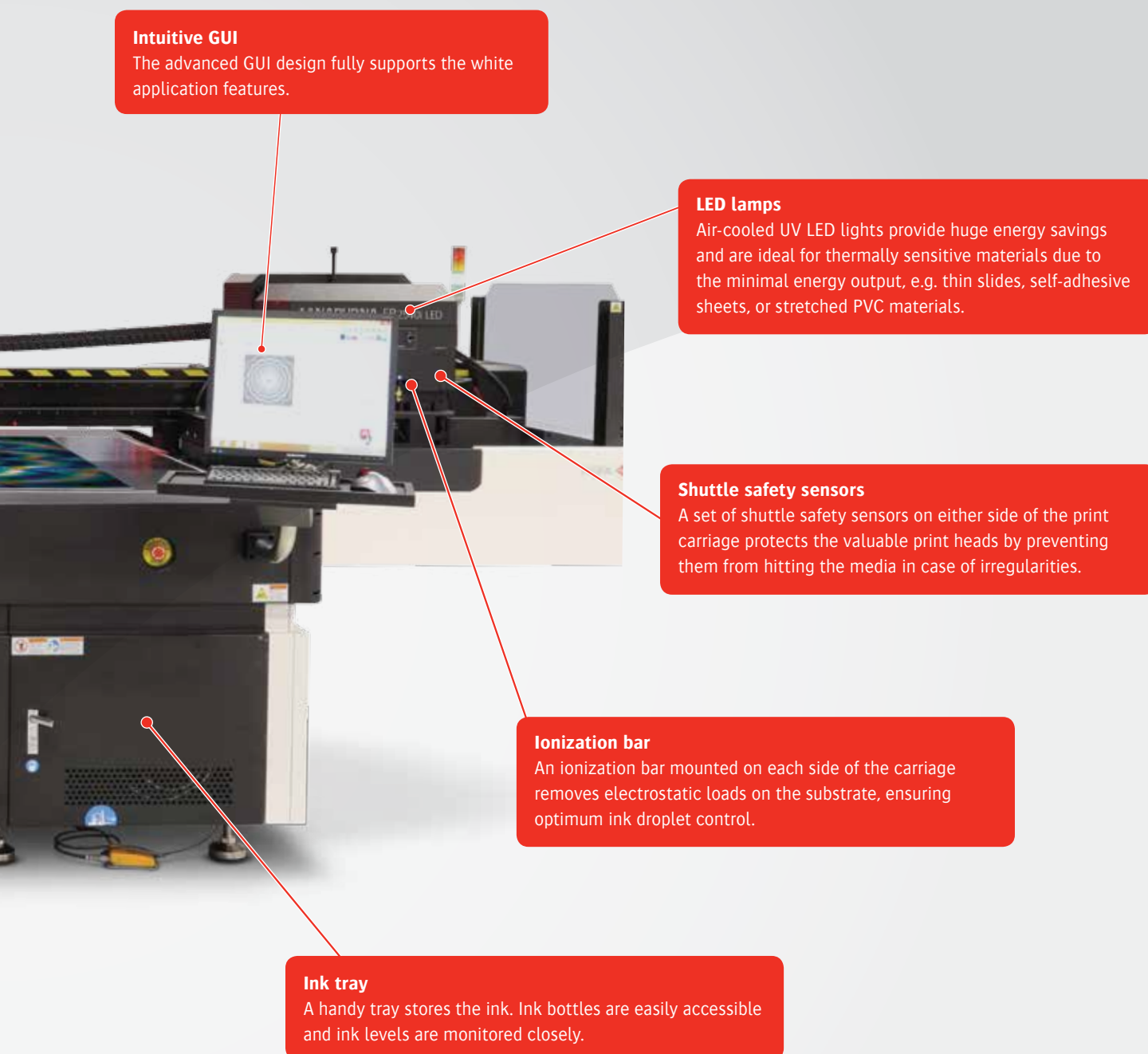
The engine's vacuum bed design ensures extremely accurate and reliable dot placement. The bed contains almost 11,000 vacuum holes and is divided in two separately controllable table zones with each four vacuum compartments, so that you can print differently sized media without having to tape off the whole vacuum bed. This design also allows you to use separate parts of the bed for different jobs in the same print run and still maintain a perfect vacuum. The vacuum can be reversed to aid lifting of large substrates after printing.

## Register pins

Automated retractable media register pins (7 horizontal / 4 vertical) perfectly position the substrate to facilitate accurate double-sided printing.



# deployment and convenience.



## UNLIMITED APPLICATIONS

With the Anapurna FB2540i LED you can attract new business with a wide variety of applications: banners, posters, signage, displays, exhibition graphics, POP & POS, mock-ups, backlights, frontlights, self-adhesives (labels). Also niche applications: DVDs,

wood, art reproductions, personalized objects, party gadgets, as well as architectural and interior decoration, ceramics... Because any material up to 4.5 cm thick can be printed with the Anapurna FB2540i LED, the possibilities are endless.

# Agfa Graphics inkjet inks – always spot on

## Wide color gamut, no matter the medium

Agfa-made UV inks boast a wide color gamut and high color vibrancy in both indoor and outdoor applications. Providing outstanding adhesion – even on the most difficult substrates – these inks are your best option in terms of flexibility, image longevity and outdoor resistance. All of our UV inks – white and color – offer outstanding, stable jetting performance and deliver the same high-quality results, batch after batch.

## Agfa's UV-curable LED inks: always spot on

Relying on LED technology, our specially-formulated UV LED inks can print on heat-sensitive substrates, thus broadening the scope of possible applications. They are both customized and versatile, developed with a view of the many different media they are intended for, as well as the specifications of different print engines. Our inks for flexible media, for example, are perfectly suited for stretchable and bendable materials.

## Vivid prints, low ink consumption

Thanks to the high pigment load of our inks, ink consumption per square meter is the lowest on the market. This 'thin ink layer' pigment dispersion technology not only results in eye-catching prints; it also helps preserve the environment and saves on your budget. In short, these inks offer the best possible price/quality ratio.



## Advanced white printing and white ink management

Printing on backlit media? Creating an opaque white background? Using white as a spot color? The Anapurna FB2540i LED supports white printing in multiple modes (e.g. pre-white, post-white, sandwich white) on both rigid and roll media. Thanks to its stirring functionality, the Anapurna FB2540i LED keeps the white ink in motion at all times. Constant recirculation flows along the ink lines – all the way to the temperature-controlled printer heads – limiting the risk of ink resettling and lines becoming blocked or clogged.



In-store communication – paper



Object printing



Tile printing



# Powered by Asanti

*The Anapurna FB2540i LED printer is driven by Agfa Graphics' Asanti wide-format workflow software, which controls the entire printing process from prepress to production and finishing. As such, it simplifies, optimizes and automates as many steps as possible, offering you a high-performance solution for increased productivity.*

## Accuracy and consistency

The huge variety of file types to be handled significantly slows down the processing of print jobs and often leads to errors. These difficulties are overcome with the Asanti software. As the print settings for different media are stored in a database, Asanti is able to quickly call up the appropriate specifications and apply them. Rendering, image and color quality are automated, and Asanti checks files prior to printing, ensuring layers and transparency have been handled correctly, while flagging potential issues. By dramatically simplifying the task of the operator, reducing idle time and efficiently tackling issues prior to printing, turnaround is reduced and productivity is increased.

## StoreFront

StoreFront, a comprehensive web-to-print service, is designed to handle incoming orders from the internet. Automated payment processing and error-free print preparation ensure new jobs are ready for printing in no time and with a minimum of operator intervention.

## Intuitive GUI

The Asanti GUI works with improved visualization of the job layout and positioning: operators can see exactly what they are printing. The GUI offers access to key print parameters to make sure any last-minute changes are quick and easy to apply. Job preparation takes place independently from the Anapurna operation due to the client-server infrastructure. This complements the autonomy of the machine beautifully; ensuring operators are not tied to the printer when other tasks demand their attention.



StoreFront web-to-print software

## Integrable with PrintSphere

As a highly-advanced printer powered by Asanti, the Anapurna FB2540i LED integrates perfectly with PrintSphere, Agfa Graphics' cloud-based service for production automation, easy file sharing and safe data storage. This integrable cloud service offers a standardized way for print service providers to automate their workflows and facilitate data exchange with customers, colleagues, freelancers, other departments and other Agfa solutions.



In-house decoration – dibond



In-store communication – forex

## Anapurna FB2540i LED

### Media & Printing Specifications

#### Rigid media

|                     |  |
|---------------------|--|
| Maximum width       | 2.54 m (8.33 ft)                             |
| Maximum length      | 1.54 m (5.05 ft)                             |
| Minimum size        | DIN A4 (11.7 x 8.26")                        |
| Thickness           | Min. 0.2 mm (0.008") - max. 45 mm (1.77")    |
| Maximum weight      | 100 kg on printing table, evenly distributed |
| Borderless printing | Up to 2.535 m x 1.535 m (8.32 ft x 5.03 ft)  |

#### Flexible media

|                     |   |
|---------------------|---|
| Maximum width       | 2.515 m (8.25 ft)                           |
| Maximum length      | 1.505 m (4.94 ft)                           |
| Minimum size        | DIN A4 (11.7 x 8.26")                       |
| Thickness           | Min. 0.2 mm (0.008")                        |
| Borderless printing | Up to 2.535 m x 1.535 m (8.32 ft x 5.03 ft) |

### Productivity (For ABF dependent on size and number of boards)

|                      |  |
|----------------------|--|
| Draft mode           | Up to 96 m <sup>2</sup> /hr (1034 ft <sup>2</sup> /hr) |
| Express mode         | 59-73 m <sup>2</sup> /hr (635-786 ft <sup>2</sup> /hr) |
| Production mode      | 31-49 m <sup>2</sup> /hr (334-527 ft <sup>2</sup> /hr) |
| Standard mode        | 18-27 m <sup>2</sup> /hr (194-291 ft <sup>2</sup> /hr) |
| High-quality mode    | 15 m <sup>2</sup> /hr (161 ft <sup>2</sup> /hr)        |
| High-definition mode | 7 m <sup>2</sup> /hr (75 ft <sup>2</sup> /hr)          |

### Media

|                   |  |
|-------------------|--|
| Print Media types | Reinforced vinyl, pressure-sensitive vinyl, canvas, fabrics, foam board, corrugated board, lenticular, tile, drywall, glass, sheet metal, paper and more |
|-------------------|--|

### Print Heads & Inks

|             |   |
|-------------|---|
| Print heads | 6 Konica-Minolta KM1024i high-frequency color print heads: 1024 nozzles/head with a droplet volume of 12 pl<br>2 Konica-Minolta KM1024i high-frequency white print heads: 1024 nozzles/head with a droplet volume of 30pl |
| Inks        | 6 Anapurna UV-curable inks (CMYKLcLm)<br>1 Anapurna white ink   |

### Image & Text Quality

|                     |                                       |
|---------------------|---------------------------------------|
| Prints high quality | Up to 720 x 1440 dpi                  |
| Text quality        | Positive: 4 point / Negative: 6 point |

### Engine Weight & Dimensions

|  |   |
|--|---|
| Flatbed printer dimensions (W x H x L) | 4.95 m x 1.6 m x 2.6 m (16.24 ft x 5.25 ft x 8.53 ft) |
| Flatbed printer weight                 | 1866 kg (4114 lb)                                     |

### Electricity & Compressed Air

|                |   |
|----------------|---|
| Electricity    | 380V - 415 V 3-phase star connection with Neutral wire (3x 30A)<br>208V - 240V 3 phase, no neutral with ground (3x 35A) |
| Compressed air | Min 6 bar   |

### System Integration RIP / Workflow software

Asanti, third-party rips