# Anapurna RTR3200i LED (+ white)

**The Anapurna RTR3200i LED is a high-speed 3.2 meter-wide roll-to-roll UV LED-inkjet printer. It prints top-quality indoor and outdoor banners and billboards in a six or a four color plus white configuration, at speeds up to 127 m²/hr.**



**AGFA** ◆ *Agfa*

STAY AHEAD. WITH AGFA GRAPHICS.

# Anapurna RTR3200i LED (+ white)



Outdoor communications — PVC banner

Your day-to-day roll-to-roll sign & display jobs? Hand them over to your very solid Anapurna RTR3200i LED. This dedicated roll-to-roll UV LED-curable printer, which comes in a six color version and a four color plus white version, handles a broad scope of flexible media for indoor and outdoor applications.

As the Anapurna RTR3200i LED is equipped with UV LED lamps, it enables you to print on a wide media mix and to save energy, costs and time.

The four color plus white version stands out by its ability to print white in different modes, improving the opacity of the printed material as well as increasing color contrast and readability. It thus transforms self-adhesive vinyl, PVC banners or backlit film into vibrant, multi-dimensional graphics that grab attention.

The Anapurna RTR3200i LED can also handle dual-roll printing. This option enables you to double your productivity when printing on smaller media — whether it is paper, vinyl or polyester.

**High productivity thanks to the latest generation of print heads**

Incorporating the latest generation of fast-firing KM 1024i print heads, the Anapurna RTR3200i LED offers a high throughput while also achieving a high level of print quality. You will be able to maintain a high production on all substrates, satisfying your most demanding customers.

**Superior quality**

The set of four or six KM1024i 12 picoliter heads guarantees printing of artefact-free solids, fine text reproduction of up to 4 pt, very smooth tonal rendering and low ink consumption. Next to the 4 (CMYK + white) or 6 (CMYKLcLm) print heads, this system features a robust and industrial engineered concept, fit for sustained higher workloads. The 1024 nozzles per head produce prints up to 127 m²/h.

**Wide range of media**

Agfa Graphics' large gamut of UV-curable inks enable printing on a broad range of flexible materials, including top such as fabric, canvas, self-adhesive vinyl, plastic film, paper and polyester including 100% PE eco-friendly material. The Anapurna RTR3200i LED has an excellent track record with outdoor applications such as billboards and building wraps.

**White printing to improve opacity, color contrast and readability**

The Anapurna RTR3200i LED plus white operates with Agfa Graphics' latest generation of white inks, which are highly opaque. This means you obtain a qualitative white output with low ink consumption on colored or dark substrates, as well as on transparent material for backlit or backlit/frontlit applications. Alternatively, you can use white simply as a spot color. Also, the Anapurna RTR3200i LED plus white has the possibility to run pre- and/or post-white concurrently in one production run, greatly expanding application possibilities.

Outdoor communications – self-adhesive vinyl
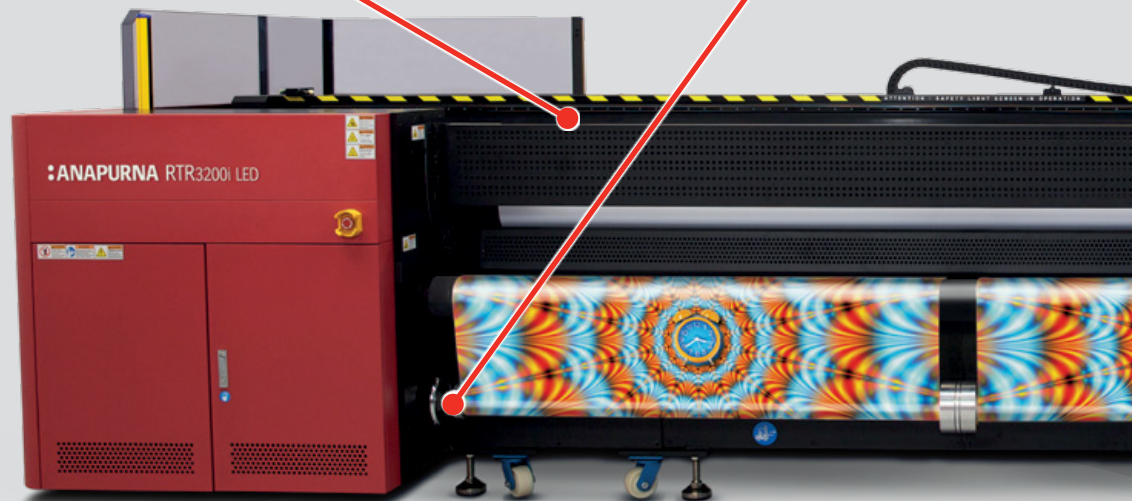
Outdoor communications – flags

# Anapurna M3200i RTR (+white)

**Flawless media handling and perfect droplet control**
Media loading is very straightforward with automated features such as the media-tension rollers (which keep media stretched at all times) and head height adjustment. An ionizer bar sees to it that there are no electrostatic loads on the substrate, ensuring optimum ink droplet control and thus delivering the highest print quality.

**High-tech vacuum system**
A vacuum system in four zones takes care of flawless media transport and accurate printing. Switch on the zone you need in case of small roll printing. In case of dual-roll printing, each roll gets the right vacuum applied.

**Optional media loader for heavier rolls**
A specially designed trolley to handle heavy rolls up to 150 kg will save you a lot of trouble. Installing these heavy rolls can now be done smoothly.

**ASANTI WORKFLOW**
For optimal productivity, all Anapurna engines can be powered by Agfa Graphics' Asanti wide-format workflow software, which streamlines production processes and maintains consistency across the board. Asanti removes the hit-and-miss elements of print production so that you can integrate all of your pre-press elements. The result is a fully accountable end-to-end quality management solution.

**Shuttle safety sensors**
The Anapurna RTR3200i LED incorporates a set of shuttle safety sensors to prevent print heads from touching the substrate. This will avoid any possible damage to the precious print heads.

**Reinforced beam**
A robust beams sees to it that the shuttle moves about flawlessly ensuring accurate dot placement

**LED lamps**
The Anapurna RTR3200i LED is fitted with air-cooled UV LED lights, which provide an energy saving of approximately 67% compared to UV mercury vapor lamps. Due to the minimal energy output, they are ideal for thermally sensitive materials, e.g. thin slides, self-adhesive sheets or stretched ceiling materials made of PVC fabric.

**User-friendly operating system**
All settings are conveniently arranged in a powerful straightforward graphic user interface on a user-friendly touchscreen and keyboard mounted on a swivel arm. Printed files are being spooled, viewed and stored by an internal bitmap server with a HD of 1 TB for ripped images for fast spooling and secure transfer of big amount of data.
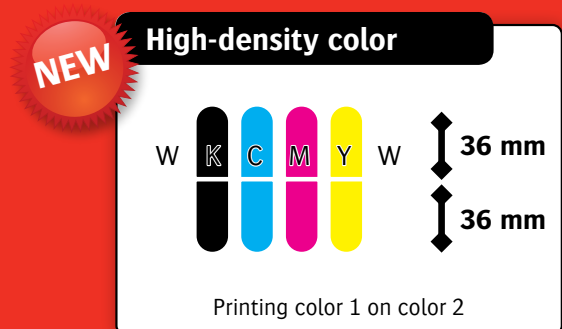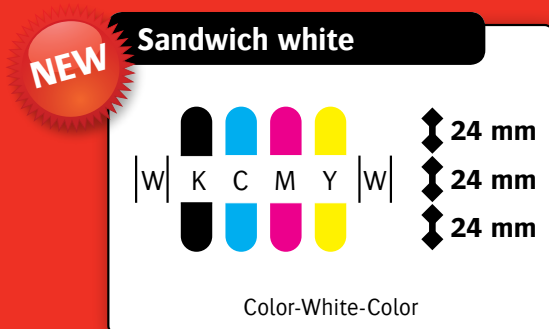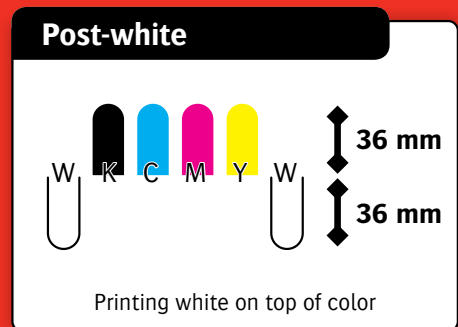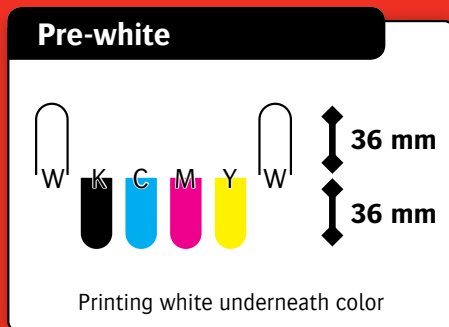
**CMYKLcLm + white inks**

**BEST-IN-CLASS AGFA-MADE LED INKS IN THE MIX**
Agfa Graphics' specially formulated LED inks deliver fast drying, a wide color gamut, and high color vibrancy, as well as consistent results. These LED inks — both white and color — bring high image longevity and outdoor resistance, making them the best choice for a wide range of applications. They can print on thin and heat-sensitive substrates, enabling you to handle more applications. On top of that, thanks to their high-pigment load, the ink consumption per square meter is low. This so-called 'Thin Ink Layer' technology saves costs and results in nicer looking prints.

# Multi-layer printing

The multi-layer printing feature enables different printing modes:
- Pre-white: printing white underneath color
- Post-white: printing white on top of color
- Sandwich white: color-white-color
- High-density color: printing one color on top of another color for backlit applications

### Pre-white

W  K  C  M  Y  W

36 mm
36 mm

Printing white underneath color

### Post-white

W  K  C  M  Y  W

36 mm
36 mm

Printing white on top of color

### Sandwich white

**NEW**

W  K  C  M  Y  W

24 mm
24 mm
24 mm

Color-White-Color

### High-density color

**NEW**

W  K  C  M  Y  W

36 mm
36 mm

Printing color 1 on color 2

**Print heads can be divided in several parts, and each part can be assigned to a different or identical image, to be used for single-run high density.**
This means that the Anapurna RTR3200i LED allows printing companies to print up to three layers at once, in perfect registration, in one pass. Images come alive. Backlit prints are enhanced when using high-density white on one or more layers.

**Dual-roll printing to increase productivity**

The dual-roll option makes it possible to install two 60 inch rolls next to each other to run two jobs at the same time. This enables you to use the printer efficiently on smaller media.

**Mesh option**

The mesh option allows for printing on mesh without liner, which represents an important cost benefit and broadens the printer's application scope.



Dual-roll printing

**UV LED**

The Anapurna LED inkjet systems are equipped with powerful, air-cooled 16 Watt/cm² UV LED lamps, which results in a number of unique advantages related to generating extra business, cost savings and environmental friendliness:

- Thanks to the minimal heat output, a printer using UV LED-curing can print on a wider media mix, and in particular more heat-sensitive substrates without warping or wrinkling. Less heat generation also means a very stable bi-directional calibration.
- LED lamps lead to faster operations and therefore higher productivity, as they can be switched on/off instantaneously, without degradation of intensity. There is no lamp warm-up time and no shutter open/close delay.
- LEDs last 10,000 hours v. 1,000 hours for mercury lamps, with a consistent output over their operating life. There is no downtime for changing lamps, nor are there consumable lamp costs. The lifetime of the UV LED lamps is in line with the lifetime of the printer.
- As LEDs have a maximum energy consumption of 1 kWh per module, compared to 4kWh per UV-mercury lamp, they lead to big power savings — from 8kWh per engine (continuously) down to 2kWh (when printing).
- As UV LED lamps contain no mercury, the need for disposal and the related costs are obviated.
- LEDs do not produce ozone gas that needs to be extracted by ventilation.

|  | **Anapurna RTR3200i LED** | **Anapurna RTR3200i LED + white** |
|---|---|---|

## Media & Printing Specifications

| | | |
|---|---|---|
| Media width | 61-320 cm (24"-126") | |
| | Optional dual-roll kit available: support for 2 rolls of 152.4 cm (60") | |
| Print width | Up to 320 cm | |
| | Optional dual-roll kit available: support for 2 rolls of 152.4 cm (60") | |
| Borderless printing with mesh kit | Up to 320 cm media width (126") | |
| Media thickness | Minimum 0.2 mm | |
| Maximum roll weight (including shaft) | 100 kg (150kg) | |
| Maximum roll diameter | 36 cm (14.17") | |

## Productivity

| | | |
|---|---|---|
| Draft mode | Up to 127 m²/h (Up to 1367 ft²) | Up to 127 m²/h (Up to 1367 ft²) |
| Express mode | 76-85 m²/h (818-915 ft²) | 76-85 m²/h (818-915 ft²) |
| Production mode | 37-65 m²/h (398-700 ft²) | 37-65 m²/h (398-700 ft²) |
| Standard mode | 22-33 m²/h (237-355 ft²) | 22-33 m²/h (237-355 ft²) |
| High-quality mode | 16-18 m²/h (172-194 ft²) | 16-18 m²/h (172-194 ft²) |
| High-definition | Up to 9 m²/h (Up to 97 ft²) | NA |
| Backlit | 4-9 m²/h (43-97 ft²) | 4-9 m²/h (43-97 ft²) |

## Print Heads & Inks

| | | |
|---|---|---|
| Print heads | 6 Konica-Minolta KM1024i high-frequency print heads: 1024 nozzles/head, 12 pl (colors) | 4 Konica-Minolta KM1024i high-frequency print heads: 1024 nozzles/head with a droplet volume of 12 pl (color) and 30 pl (white) |
| Inks | 6 Anapurna 1500 RTR - LED-curable inks (CMYKLcLm) | 4 Anapurna 1500 RTR - LED-curable inks (CMYK) 1 Anapurna White 1040 - LED-curable ink |

## Text Quality

| | | |
|---|---|---|
| Text quality positive | 4 point | |
| Text quality negative | 6 point | |

## Engine Weight & Dimensions

| | | |
|---|---|---|
| Dimensions (w x h x d) | 5960 x 1650 x 1980 cm | |
| Weight | 3500 kg | |
| Floor space | 7.7 x 3 m | |

## Electricity

| | | |
|---|---|---|
| Europe | 380 V 3-phase star connection with neutral wire (3 x 30A) 50/60 Hz | |
| USA | 230 V 3-phase delta connection without neutral wire (3 x 30A) 50/60 Hz | |

## System Integration RIP / Workflow software

| | | |
|---|---|---|
| Integrated production solution with Asanti; other RIPs on request | | |
| | Anapurna RTR3200i LED media/ ink profiles available on Asanti | Anapurna RTR3200i LED W media/ ink profiles available on Asanti |

## Safety approvals

| | |
|---|---|
| CE, FCC, ROHS | |

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