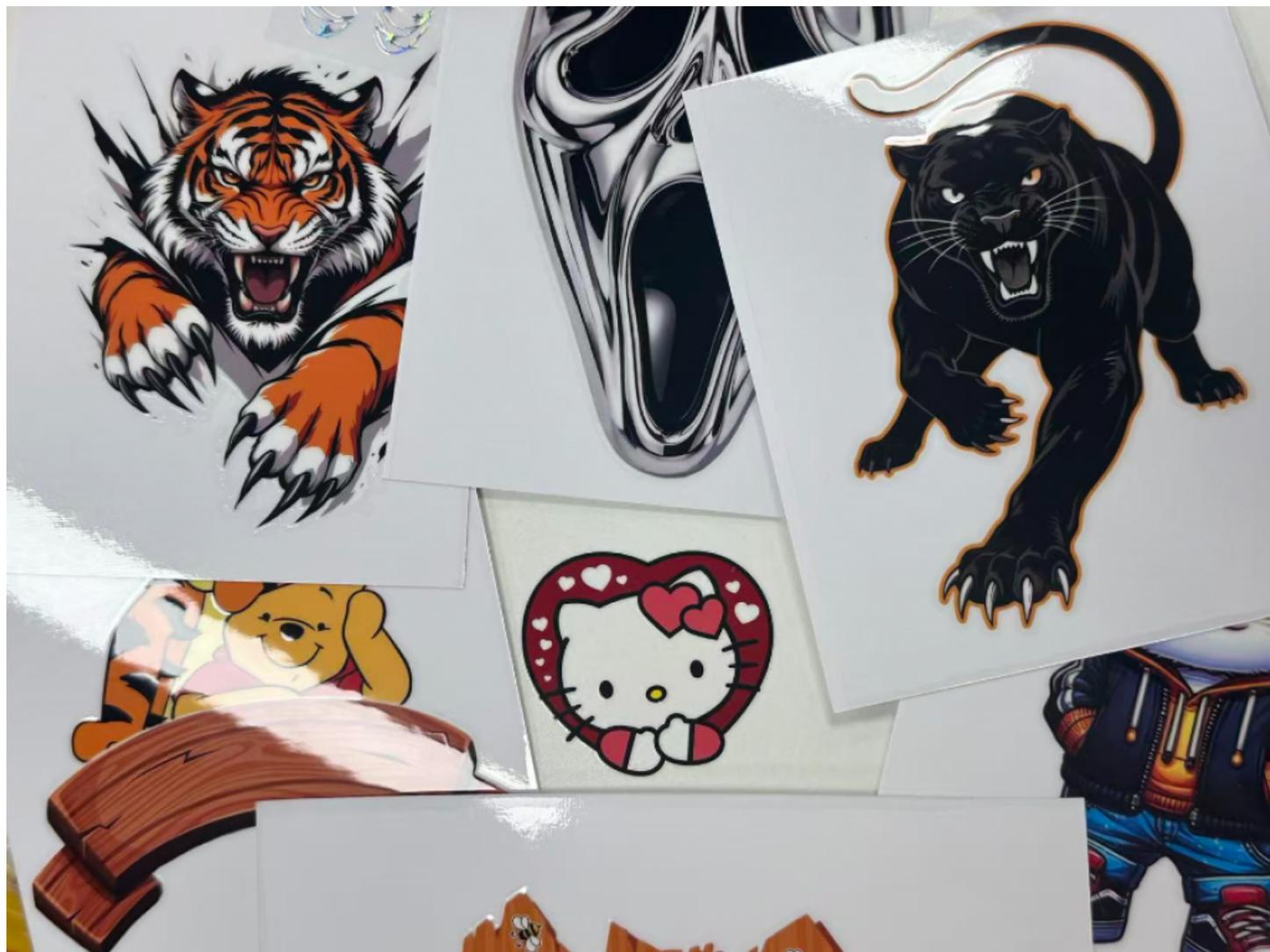


## Longer Introduces the World's First Dual-Head Personal UV Printer: What Advantages Does Dual-Head Technology Bring?



**Byram, United States Mar 19, 2026 ([IssueWire.com](https://www.issuewire.com))** - After years of research, engineering development, and user feedback analysis, Longer has officially introduced ePrint, the world's first dual-head personal UV printer designed for creators, personal studios, and customization businesses. With ePrint, users can now experience production-level printing performance within a compact desktop UV printer format.

For a long time, desktop UV printer market has faced a common limitation. Most machines rely on a single printhead architecture, which requires white ink, color layers, and varnish to be printed sequentially. This not only slows down production but also increases the risk of layer misalignment, forcing users to choose between printing speed and image quality.

Therefore, The [Longer ePrint dual-head UV printer](#) solves this problem through an innovative dual-printhead design combined with an open ink cartridge system. By allowing multiple ink channels to operate simultaneously, ePrint desktop UV printer significantly improves printing efficiency while

maintaining precise layer alignment and professional print quality.

The strong market response has already demonstrated the demand for this technology. During its Kickstarter campaign, Longer ePrint desktop UV printer raised more than \$4 million, proving that creators and small business owners are eager for a faster, more flexible desktop UV printing solution.

So what exactly makes dual-head technology so transformative?

## **1. What Is UV Printing?**

UV printing is a digital inkjet printing technology that uses ultraviolet (UV LED) light to instantly cure ink. Unlike traditional printing methods that rely on evaporation or absorption for drying, UV printing uses ultraviolet light to trigger a photochemical reaction the moment the ink reaches the surface of a material. Within milliseconds, the liquid ink solidifies into a durable layer. This instant curing process provides several advantages. Prints can be handled immediately after printing, eliminating long drying times and improving production efficiency. In addition, cured UV ink forms strong chemical bonds with the substrate, offering excellent durability, strong adhesion, and resistance to scratches and fading.

Because of these advantages, UV printing has become one of the most widely used technologies in customized manufacturing, signage production, and creative product design.

One of the biggest strengths of a modern desktop UV printer is its ability to print on a wide range of materials. Unlike traditional printers that are limited to paper or coated media, UV printing can be applied directly to both porous and non-porous surfaces. This flexibility makes UV printing an ideal solution for personalized manufacturing and product customization.

Longer dual-head UV printer can print directly on materials such as acrylic, wood, metal, glass, leather, ceramic, stone, plastic, and even 3D-printed objects. In practical applications, this capability allows creators and companies to produce a variety of customized products, including custom phone cases, promotional merchandise, personalized signage, acrylic artwork, metal awards, and customized packaging. For e-commerce sellers and personal studios, a versatile desktop UV printer provides the ability to quickly develop new product ideas and respond to market trends.

## **2. The Key Innovation Transforming Desktop UV Printing**

Although UV printing is now widely used, traditional desktop UV printers have long been limited by their single-head printing architecture. When a design requires white ink, color layers, and varnish effects, the printer must complete these steps sequentially. Each additional printing process increases production time and introduces the possibility of small alignment errors between layers. Even minor inaccuracies can affect the final result, causing issues such as blurred edges, color bleeding, or ghosting.

To overcome these limitations, Longer developed a new dual-head UV printer architecture specifically designed to improve both speed and printing accuracy.

### **2.1 How the Longer Dual-head System Works**

Longer ePrint UV printer uses an advanced dual-head UV printer structure, where two independent printheads are mounted on the same moving carriage. This design allows multiple ink channels to operate simultaneously rather than sequentially.

In a common configuration, one printhead is dedicated to CMYK color channels, while the second printhead handles white ink and varnish channels. During printing, both printheads move across the printing area and deposit different layers of ink within the same movement cycle. This parallel printing process significantly reduces the number of printing passes required and minimizes the time gap between layers. As a result, the dual-head UV printer can achieve both higher productivity and more consistent alignment compared with traditional single-head desktop UV printers.

### **2.1.2 Advantage of Dual-head Technology**

- Significantly Improve Printing Efficiency

One of the most notable advantages of a dual-head UV printer is its ability to considerably increase printing efficiency. Since multiple ink layers can be applied simultaneously, the printer no longer needs to perform several separate passes for white ink, color layers, and varnish.

This parallel workflow greatly reduces overall production time, especially when printing designs that require heavy white ink or multi-layer texture effects. For small businesses and personal studios, this means a desktop UV printer can handle more orders within the same amount of time.

- More Accurate Layer Alignment

A dual-head UV printer also improves printing precision. In traditional single-head systems, time delays between printing layers can cause small alignment errors. Over multiple passes, these errors may accumulate and become visible in the final print. A dual-head UV printer applies multiple layers during the same carriage movement, therefore, the risk of misalignment is greatly reduced. The result is sharper edges, more precise details, and more vibrant color reproduction.

- True 3D Embossing Printing

Another powerful feature enabled by a dual-head UV printer is 3D embossing printing. By stacking multiple layers of white ink or varnish, the printer can create physical texture on the surface of the printed material.

This feature allows users to produce premium products such as embossed business cards, textured signage, artistic decorations, and personalized gifts. With precise layer control, the printer can even simulate embroidery-like textures, creating unique visual and tactile effects that stand out from traditional printing methods.

- Supports UV DTF Transfer Printing

Affected by both dual printhead and the open ink system, Longer desktop UV printer can also support UV DTF transfer printing workflows. In this process, graphics are first printed onto a special transfer film, then laminated and transferred onto the final object. This method is particularly useful for curved surfaces, irregularly shaped products, and batch customization applications, making the dual-head UV printer a highly flexible production tool.

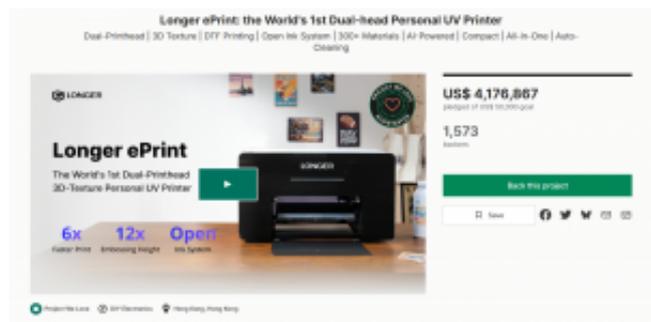
## 2.2 The Open Ink System

Another major advantage of Longer's design is the open ink system, which provides much greater flexibility in how the printer can be configured. For example, one printhead can be filled with standard UV ink for direct printing, while the other printhead can use UV DTF ink for transfer printing. This configuration allows the same desktop UV printer to support multiple workflows and expand the range of printable materials. Users can choose from more than a dozen ink configuration combinations depending on their production needs. This flexibility allows creators to optimize the printer for different materials, product types, and customization applications.

## 3. Conclusion

Longer ePrint dual-head UV printer marks a world-first innovation. As it is the first dual-head personal UV printer ever created by Longer, by pioneering this advanced dual-head architecture combined with an open ink system and multi-layer printing capabilities, ePrint sets a new standard for [desktop UV printers](#), delivering faster printing speeds, higher precision, and far greater creative potential than any traditional single-head system. With ePrint, creators can produce complex multi-layer textures, 3D embossing, and vibrant full-color designs directly on a wide variety of materials, including acrylic, metal, glass, leather, ceramics, and 3D-printed objects, all from a compact desktop setup.

For creators, personal studios, and custom product businesses, this UV printers brings industrial-grade UV printing into an accessible, affordable, and versatile package. It empowers users to expand product offerings, experiment with intricate designs, and consistently deliver professional-grade results without the need for bulky industrial equipment. Whether producing personalized merchandise, promotional items, textured signage, or artistic decorations, Longer ePrint dual-head UV printer provides the precision, efficiency, and flexibility to turn creative ideas into reality.



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