



Product Use

The 3M™ Personalization System (formerly Meryl) is a complete process for printing secure documents. It uses breakthrough technology to transfer full-color digital images into secure personal ID documents such as passports and visas – cost effectively.

The 3M™ Personalization System interfaces with secure document issuance systems such as the 3M™ Identity Document Issuance System (IDIS). The 3M™ Personalization System process can be used to apply text and any number of digital images to your secure document, including:

- Facial images
- Signatures
- Fingerprints
- Phantom images
- barcodes

Key Standard Features & Functionality

- Single Print Technology
- Highly Secure
- Cost-Effective
- Easy to Use
- Two Step Process

Single Print Technology

The 3M™ Personalization System is a scalable print solution that uses standard laser printers and cost-effective consumables. This allows you to standardize on a single print technology across all your issuance sites, regardless of the volume of documents produced. With the 3M™ Personalization System, both your consulate, issuing dozens of passports per week, and your central issuing site can have a common-look passport.

A single print technology can increase the security of your document – it reduces the opportunity for forgery and falsification attacks. It also increases the likelihood that any such attacks will be detected at a border control point.

Using one print process with common equipment and consumables at all your issuance sites helps reduce operating and consumables costs, and increase production efficiency.

Two Step Process

1. Print

The data page is printed – in reverse – on a specially processed substrate, the transfer sheet, using a standard laser printer. Once printed on the transfer sheet, the image is fully fused and requires no special handling.

2. Transfer

The printed transfer sheet is inserted in the 3M™ Personalization System until it is automatically registered and locked into position. The receiving document is placed into the 3M™ Personalization System on top of the printed transfer sheet. A combination of heat and pressure is applied, transferring the image from the transfer sheet into the security paper of the receiving document.

Once removed from the 3M™ Personalization System, the carrier sheet is pulled away, leaving the printed data page image transferred onto the receiving security paper. The transfer is clean – no adhesive or portion of the carrier sheet remains on the document. The document may then be laminated with a security laminate such as 3M™ Confirm™.

Highly Secure	<p>The 3M™ Personalization System is used for the transfer of digital images, which are highly resistant to alteration and substitution.</p> <p>The process uses direct toner transfer technology. The significant pressure used transfers toner not only onto the receiving paper, but also directly into the paper, making your document highly resistant to tampering. Our testing shows that the transferred image cannot be removed from the pulp without damage to the paper.</p> <p>The 3M™ Personalization System can be the single print technology used at all issuance sites. Reducing the different types of documents in circulation protects against falsification and fraud.</p>
Cost Effective	<p>The 3M™ Personalization System uses unmodified, off-the-shelf laser printers. You can keep current with printer technology, without sacrificing your overall investment in a secure document print solution. The system can be operated in a standard office setting without special environmental considerations. If issuance volumes are low, the laser printer used for preparing secure documents can also be used for regular office print jobs.</p> <p>The transfer sheets are printed “two up” to reduce wasted consumables. They are also cost-effective, making the system a practical solution for use in your low-volume issuance environments.</p> <p>Implementing a 3M™ Personalization System does not require complete retooling. It can be easily integrated into your existing issuance system, matching the current document design. It is compatible with a wide range of papers and security laminates such as 3M™ Confirm™, enabling you to use existing materials in inventory.</p>
Easy to Use	<p>The toner on the document is fused after printing – no additional drying or fusing time is needed. Sheets may be stacked and handled without smearing of the printed images.</p> <p>The system automates alignment and registration, greatly reducing the chance of operator error. The application of precisely the right amount of heat and pressure is also automated, reducing the potential for user error.</p> <p>Reference or file information may be printed on the transfer sheet. This information provides a useful reference during the production process, and may also be filed for archival purposes, or as an administrative tracking tool.</p>
Specifications	<ul style="list-style-type: none"> • Length: 39.3 cm (15.72") • Height: 22.0 cm (8.8") • Operating Temperature: 0°-40°C (32°-104°F) • Depth: 29.3 cm (11.72") • Weight: 22.32 kg (49.1 lb) • Throughput: 3-5 seconds per transfer
Contact 3M	<ul style="list-style-type: none"> • www.3M.com/security/IA • +1 613-722-2070 or 1-800-581-2631

Important Notice to Purchaser: Because conditions of product use are outside 3M's control and vary widely, use must evaluate and determine whether a 3M product will be suitable for user's intended application before using it. THE FOLLOWING IS MADE IN LIEU OF ALL EXPRESS AND IMPLIED WARRANTIES OR CONDITIONS (INCLUDING WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE). If a 3M product is proved to be defective, 3M's only obligation, and user's only remedy, will be, at 3M's option, to replace the quantity of product shown to be defective when user received it or to refund user's purchase price. In no event will 3M be liable for any direct, indirect, special, incidental, or consequential loss or damage including, but not limited to, lost profits, regardless of legal theory, such as breach of warranty or contract, negligence, or strict liability. 3M Security Systems Division offers a range of security products to protect against article and/or document and/or identity counterfeiting, alteration, diversion, duplication, simulation and substitution. However, no security products can guarantee absolute protection against attempts to successfully accomplish these illegal activities.

3M is a trademark of 3M. Used under license in Canada.

Windows is a registered trademark of Microsoft Corporation in the United States and other countries. All other names are for reference only and are the property of their respective owners.

09/06/07