Offline Inspection

Your Vision for Quality.

EyeC Proofiler

EyeC quality control systems

The company

EyeC is a leading vision technology company based in Hamburg, Germany. We are focused exclusively on high performance artwork and print inspection systems aimed to assure the highest quality standard throughout the design and printing process.

Our R&D and Customer Support staff consists of highly skilled and experienced engineers, graduated in either Electronic Engineering and/or Computer Technology with long experience in industrial inspection applications. Our products are based on the latest pattern recognition technology and are designed to meet the needs of design houses, the printing industry, and their customers. They have been developed in close cooperation with actual users, with a strong emphasis on speed, reliability, and ease of use. Our software is produced in conformance to applicable ISO 9001, GMP and GAMP 5 guidelines, and contains all functions necessary for validation according to the guidelines laid out in 21 CFR Part 11 or EU GMP Annex 11. EyeC systems are in use at numerous customers in the printing, pharma, cosmetic and other industries across the world, producing offset printed inserts, folding cartons and flexographic self-adhesive labels for food, cosmetic, medical and pharmaceutical applications.

The EyeC History

2003 EyeC Proofiler 400 for off-line inspection
2005 EyeC Proofiler Braille Inspection, Barcode inspection
2006 EyeC ProofRunner for in-line inspection
2007 Color distance measurement
2008 2D-Code Inspection
2009 EyeC ProofRunner Carton and Inspection for Variable Data
2012 In-line inspection of sheet offset machines, In-line color control
2014 EyeC ProofRunner Carton Retrofit & Web
2015 EyeC ProofRunner Sheetfed Retrofit
2017 EyeC Workflow Integration & EyeC Quality Link
2022 EyeC ProofRunner HighLight Series & EyeC Proofiler RS
2024 EyeC Proofiler 1200 DT & EyeC ProofRunner AI Defect Classification
2025 EyeC ProofRunner Evo
2026 EyeC Proofiler Graphic Connect

EyeC Proofiler

100% Verification – 100% Safety

Finally there is an easy and definitive way to check printing results which also lowers the cost of quality and improves security. The EyeC Proofiler digitally compares the first samples from the printing machine or the samples of your incoming materials against the signed-off proof, so you can always be sure to get exactly what you expect! The inspection is simple, fast, impartial, and reproducible. Every item printed across the web or sheet is processed in one pass. Results are instantly available, giving you the ability and confidence to completely control and monitor your process, and to document this objectively with traceability.

Easy to use

The EyeC Proofiler has been designed with ease-of-use in mind. You do not have to be a computer expert to master this machine within minutes. The entire process consists of three easy steps:

1. scanning the samples
2. automatic inspection
3. printing the report

There is no manual set-up required. All items across the web or sheet are automatically identified and aligned to the signed-off proof for the inspection.

Flexible and precise

The print sample from your production is scanned using a high-resolution, high-speed scanner. You can choose from A3 scanners to large-format or continuous-feed scanners. The EyeC Proofiler automatically detects all characters contained in the inspection sample and compares them with the customer's template. This comparison, using sophisticated pattern recognition methods, distinguishes between tolerable variations – such as registration shifts – and intolerable errors, such as missing or different letter parts. The errors are displayed in the software along with their respective positions and can be evaluated by the user.

All typical defects can be found including:

- Missing or smudged letters or parts of letters (including the dot above the "i" in a 5-point font)
- Stains or other smudges
- Missing or incorrect colors
- Incorrect content, lack of decodability, and poor quality of 1D and 2D codes
- Content errors or deviations from standards in Braille

Prepress

Even pre-press related problems can be detected, for example:

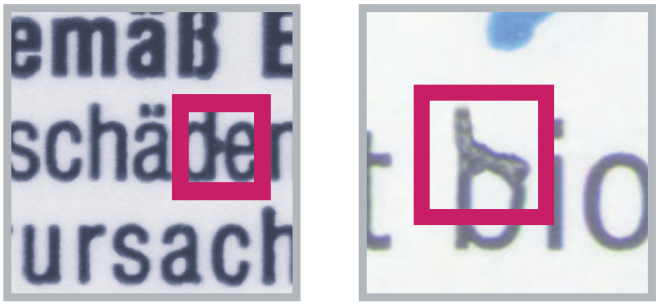
- Font substitution (e.g., using Arial instead of Helvetica)
- unintended bold text
- missing font styles
- changes in font spacing
- missing special characters or accents

Parameter sets make it easy to differentiate quality requirements based on the customer or product. After testing, the results are printed as a report or digitally archived; upon request, they can also be stored in an audit-proof database.

Sample applications

Labels

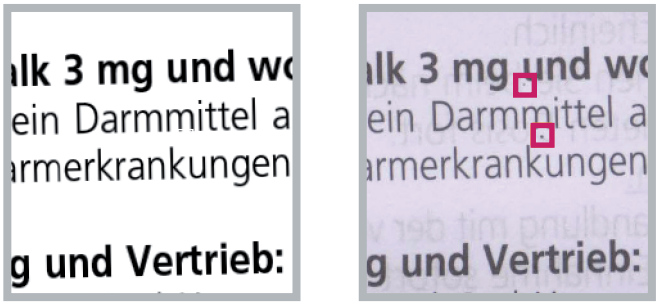
Self adhesive labels are used in a host of different industries and applications. Some are very simple and low cost, others may be very intricate and have a higher intrinsic value; in both cases the EyeC Proofiler can be a great aid to setting up the press and ensuring stringent quality control. The first impressions are checked against the customer's signed-off proof. The press can then be run with 100% confidence that the job will be right first time.



Examples of typographic flaws

Patient Information Leaflets

Patient information leaflets mostly with multilingual content printed in tiny fonts on both sides of very thin sheets, represent the single most difficult challenge even for the most dedicated human proofreader. With the EyeC Proofiler, sheets can be inspected fresh from the press or in the incoming packaging materials lab. The system can also be equipped with a multiple page inspection option if your process requires it.



Examples of leaflets proofing

Folding Cartons

A key step in folding carton inspection is the automatic detection of die-cut and fold lines, as this information is essential for accurately inspecting the contents. EyeC's die-cut edge detection performs this step reliably and automatically with all possible PDF input formats, such as the ECMA standard, including layers, spot colors, or single-color contour lines. In addition to inspecting text and graphics, 1D and 2D code inspection and grading are possible, as well as content and quality inspection of Braille, including verification of compliance with standards such as Marburg Medium. The EyeC Proofiler enables all of these inspections in a single step.

Examples of barcode proofing

If you are looking for solutions, which are perfectly adapted to your working process and enable your employees and press equipment to be utilised most effectively, you should talk to us.

Examples of Braille proofing

Code Inspection

This option enables the EyeC Proofiler to automatically identify, decode and inspect 1D and 2D codes on the inspected print sample. This software option displays barcode type, content and the ISO/ANSI grade for each identified code. A full quality report is created automatically showing grades for each parameter. It is much faster than any kind of hand-held barcode inspection device, is easier to use and provides more consistent results. This option works with UPC/EAN, Laetus Pharmacode, EAN/UCC 128, Code 128, Code 39, ITF and others including most RSS and two-dimensional codes.

Braille Inspection

This option allows for the inspection of Braille embossing for:

- Accuracy
- Missing or incorrect Braille dots
- Correct placement
- Compliance with the required standard, such as Marburg Medium
- Decoding
- Height measurement
- Embossing quality, thereby meeting all requirements of the pharmaceutical industry and the standards applicable.

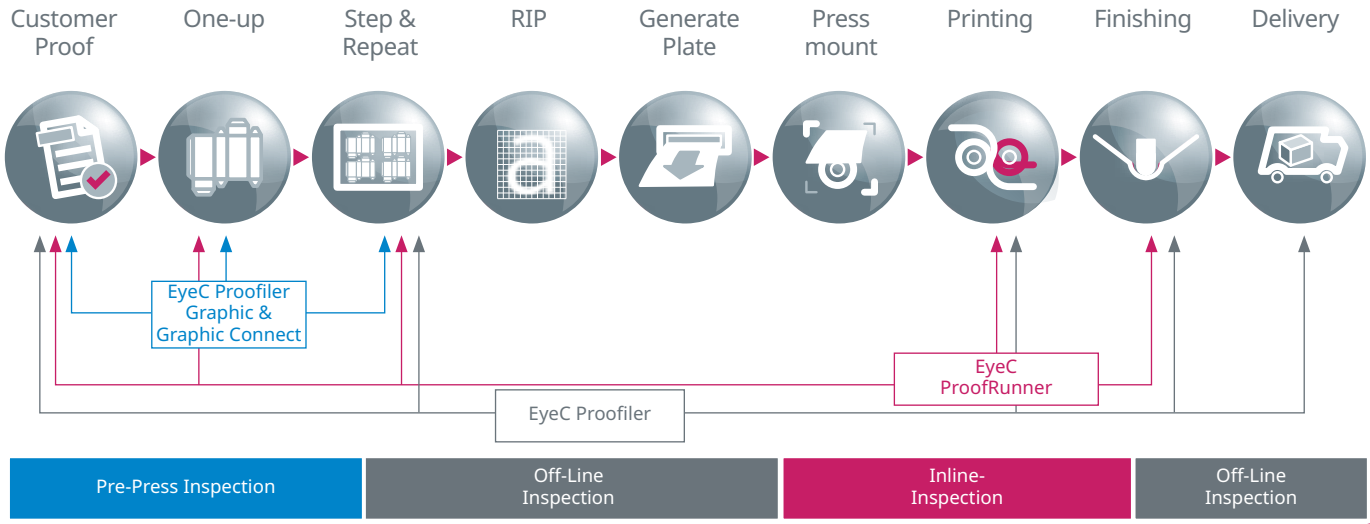
Pre-Press Inspection

Whenever a new version of an existing artwork file is being created, you want to be absolutely sure that

- all required changes have been implemented correctly, and
- no further alterations have been introduced inadvertently.

The EyeC Proofiler Graphic and Graphic Connect are powerful software that are used in pre-press departments for print proofing and to compare graphical files, for example PDF to PDF, TIFF to PDF, JPEG to BMP etc; ultimately the customer proof can be checked against the print-ready-file.

EyeC - One solution for your entire printing process



EyeC quality control systems

Typical industries

Pharmaceutical Industry

The EyeC Proofiler is the systematic way to compare the approved artwork with production samples or random samples. The identification of systematic errors is becoming increasingly critical and is indispensable for companies operating in a GMP environment. Any error that alters information for the customer—such as incorrect or missing text or graphics on leaflets, folding cartons, or labels—represents a liability risk for the pharmaceutical manufacturer and a threat to its reputation.

Therefore, EyeC not only delivers a factory-qualified product to its pharmaceutical customers, but also supports them during the validation phase with its Validation Support Package. This includes documentation such as sample URS documents, as well as Installation Qualification (IQ) and Operational Qualification (OQ) documentation both at the factory and on-site. Templates for periodic system review are also included. EyeC further offers Performance Qualification (PQ) support through certified CSV experts.

All EyeC products comply with GAMP 5, EU GMP Annex 11, and 21 CFR Part 11 specifications. All EyeC Proofiler systems are audit-proof thanks to their integrated audit trail.

Eliminating human error is essential to achieving lean and secure quality inspection by reducing inspection time and increasing inspection reliability. The EyeC Proofiler is optimized for intuitive operation and integrates easily and securely into your quality assurance process.

Printing Companies

Whether you print labels, films, or offset: the EyeC Proofiler is a great support during press setup and ensures continuous quality control. The first prints are compared with the customer-approved artwork, so you can rely 100% on the job being executed without systematic errors. Each repeat is compared with the approved artwork, and deviations outside tolerances are highlighted. This eliminates the need for a second person to verify the correct setup of the printing press.

During production, periodic samples can be taken to ensure consistent quality throughout the print run.

Consumer & Luxury Goods

In addition to checking textual content, ensuring the visual appearance is equally important for brand image. Packaging represents the quality of the product, and at goods receipt you must ensure that your suppliers meet your requirements and have produced both content and appearance exactly as specified in your approved artwork. For every format, there is a suitable device within the Proofiler portfolio.

Food & Beverage

Since the information on food packaging is subject to the strictest controls, manufacturers bear responsibilities nearly equal to those in the pharmaceutical industry. In addition, food manufacturers manage a much wider variety of products and must handle frequent changes to product information reliably. Supply chains are longer and turnaround times shorter.

Incorrect or missing information regarding ingredients, storage, or preparation instructions can lead to sales stops or even product recalls. Both are highly costly and damaging to the manufacturer’s reputation.

EyeC products support you in the automated inspection of both the artwork and the printed results at every stage – prepress, printing, or packaging – the safe way.

Technical specifications*

	EyeC System	Proofiler DT					
	Version	400 DTe	400 DT	600 DT	900 DT	1200 DT	1700 DT
Performance	Maximum scan size	307 x 431,8 mm (12,08" x 17")	317 x 470 mm (12.5" x 18.5")	630 x 469 mm (24.8" x 18.4")	915 x 635 mm (36" x 25")	1,270 x 915 mm (50" x 36")	1,778 x 1,219 mm (70" x 48")
	Average scan time	8 sec.	11 sec.	15 sec.	24 sec.	12 sec.	40 sec.
	Resolution	600 dpi	600 dpi	600 dpi	600 dpi	600 dpi	400 dpi
	Pixel size	42.3 µm (0.0017")	42.3 µm (0.0017")	42.3 µm (0.0017")	42.3 µm(0.0017")	42.3 µm(0.0017")	63.5 µm(0.0025")
Features & Options	Check vs. customer proof Print-to-file or print-to-print	standard	standard	standard	standard	standard	standard
	File-to-file	optional	optional	optional	optional	optional	optional
	Autom. control of layers & color separations	optional	standard	standard	standard	standard	standard
	1D & 2D code inspection	optional	optional	optional	optional	optional	optional
	Braille inspection	not available	optional	optional	optional	optional	optional
	Distance measurement	optional	optional	optional	optional	optional	optional
	Pharma workflow	not available	optional	optional	optional	optional	optional
	Electronic signature	optional	optional	optional	optional	optional	optional
	Validation support package	not available	optional	optional	optional	optional	optional
	Color distance measurement	optional	optional	optional	optional	optional	optional

	EyeC System	Proofiler RS			Proofiler Graphic & Graphic Connect		
	Version	900 RS	1050 RS	1500 RS	Version	Graphic	Graphic Connect
Performance	Max. scan size	914 mm (36")	1064 mm (42")	1524 mm (60")	Number of documents	unlimited	unlimited
	Average scan time	16 sec.	12 sec.	14 sec.	Pages/Items per Inspection	unlimited	unlimited
	Resolution	600 dpi	600 dpi	400 dpi	Maximum simultaneous users	1	5
	Pixel size	42.3 µm (0.0017")	42.3 µm (0.0017")	63.5 µm(0.0025")			
Features & Options	Check vs. customer proof Print-to-file or print-to-print	Standard	Standard	Standard	Workflow connection	optional	Standard (Rest API)
	File-to-file	optional	optional	optional	File-to-file inspection	Standard	Standard
	Autom. control of layers & color separations	Standard	Standard	Standard	Layers and Separations	Standard	Standard
	1D & 2D code inspection	optional	optional	optional	1D & 2D Codes	optional	Standard
	Braille inspection	n.a.	n.a.	n.a.	Braille-Inspection	optional	Standard**
	Distance measurement	optional	optional	optional	Distance Measurement	optional	Standard
	Pharma workflow	optional	optional	n.a.	GMP audit ready	optional	Standard
	Electronic signature	optional	optional	n.a.	Elektronic Signature	optional	Standard
	Validation support package	optional	optional	n.a.	Validation Support Package	optional	n/a
	Color distance measurement	optional	optional	optional	Color distance measurement	optional	Standard

* All values provided are to our best knowledge at the time this sheet has been created and subject to change without further notice. These technical specifications are based on standard assumptions, please inquire the available speed and resolution of your system with the quotation. The specifications stated in the quotation and order confirmation are assured product capabilities.

** Coming soon

EyeC quality control systems

Contact us

HEADQUARTERS / GERMANY, AUSTRIA, SWITZERLAND

EyeC GmbH
Phone: +49 40 226 3555 0

E-mail: Sales@EyeC.com
www.EyeC.com

For our partners worldwide visit
www.EyeC.com/contact_us/

BR PF 00 EN 008 05/2025

quality control systems

www.EyeC.com