Your vision for quality.

EyeC ProofRunner

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 U.S. FDA Title 21 CFR Part 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
2004   EyeC Proofiler 600 for labels and
EyeC Proofiler 1000 for cartons
2005   EyeC Proofiler Braille, EyeC Proofiler 700 for
patient information leaflets, barcode inspection
2006   EyeC ProofRunner for in-line inspection
2007   Cigarette warning text control tool and color
distance tool
2008   RSS and Data Matrix Code Inspection,
EyeC ProofRoller for cylindrical objects
2009   EyeC ProofRunner Carton, EyeC ProofRunner
Folder Gluer and EyeC ProofRunner Variable Data

2010   EyeC Proofiler Graphic Multiuser
2011   EyeC ProofBook for multi-page PDFs, In-line
inspection of foils and patient information leaflets
2012   In-line inspection of sheet for offset machines,
In-line color control
2013   EyeC Proofiler Content for the inspection of
texts, graphics and layout
2014   EyeC ProofRunner Carton Retrofit
2015   Braille inspection for A2 scanners,
EyeC ProofRunner Sheetfed as retrofit module
2016   EyeC ProofRunner Carton Pre-Feeder
2017   EyeC Workflow Integration and
EyeC Quality Link

EyeC
quality
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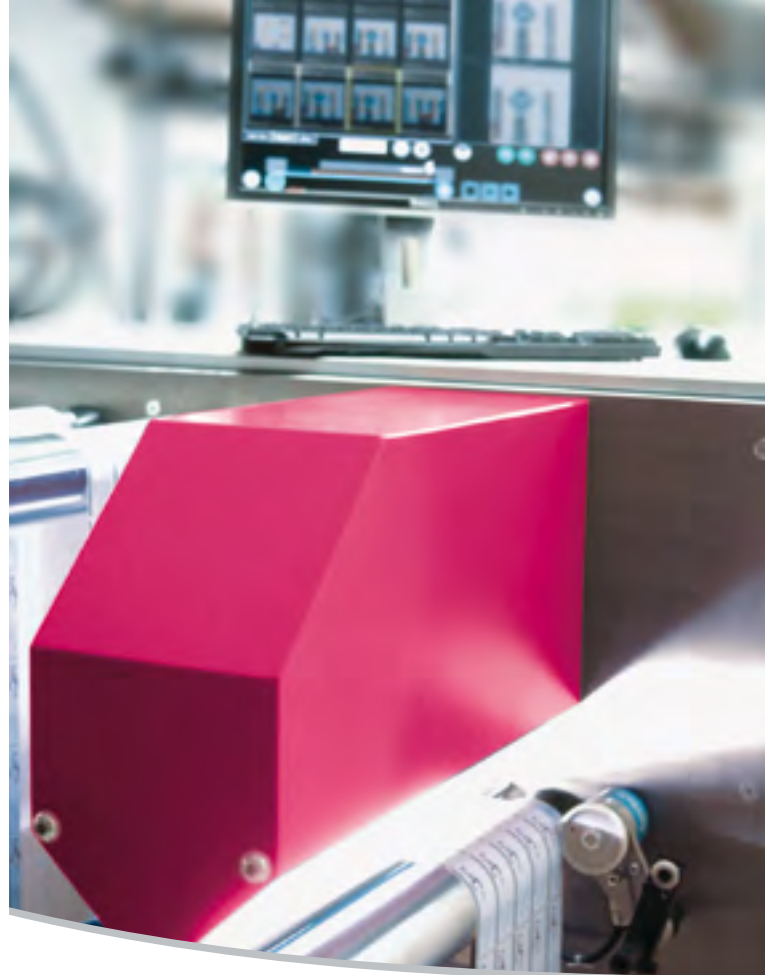systems

EyeC ProofRunner

100% verification – print and content

Finally there is an easy way to check all your prints against your customer proof! With an EyeC ProofRunner you get automatic 100% inspection of all items across the web, content verification against your customer proof as well as the best mix-up prevention you can imagine – right on the press or on a rewinder. The process is simple and yields accurate results; so you can rest assured that you will print exactly what your customer expects. Inspection results are instantly available and can be used for immediate corrective action. This gives you the means to completely control and monitor your printing process and to avoid scrap. In short: 100% inspected, 100% content verified and 100% compared to the customer proof!
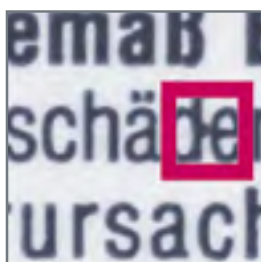
Easy to use

The EyeC ProofRunner has been designed with ease of use in mind. Any print machine operator can perform a meaningful in-line inspection within minutes.

- **The customer proof is loaded automatically based on the entered job data.**
- **All items across the web are automatically identified.**
- **Irrelevant areas are automatically disregarded**
- **Significant deviations are brought to the operator's attention.**
- **A full job report is instantly available.**

Smart

The EyeC ProofRunner uses a compact, high speed line scan camera to continuously acquire a high resolution image of the entire web. A high performance computer system then identifies all printed items on the web and tracks them through the entire print- or converting run. The same computer also performs an intelligent comparison of each printed item against the customer proof. The advanced pattern analysis of the EyeC ProofRunner is capable of distinguishing between the different types of defects, so every significant deviation will get caught and displayed while permissible fluctuations caused by the printing process itself – like minor registration errors or small squeeze marks around individual letters – can be automatically passed. The intelligent design allows for the inspection of hot- or coldstamping elements.

Examples of flaws

Reliable

The EyeC ProofRunner finds all typical defects such as:
missing parts of letters, filled in letters, hickeys, smudges, missing ink, spots, color deviations, defects in hot- or cold stamping elements.

Through the pre-press link to the signed customer proof even content errors resulting from mistakes in the pre-print area can be detected like:
typos, reversed colors in graphical elements, wrong font or font attributes, incorrect character spacing, missing special characters or accents.

Flexible

The use of different parameter sets allows the EyeC ProofRunner's sensitivity to be adapted to product or customer specific quality standards.
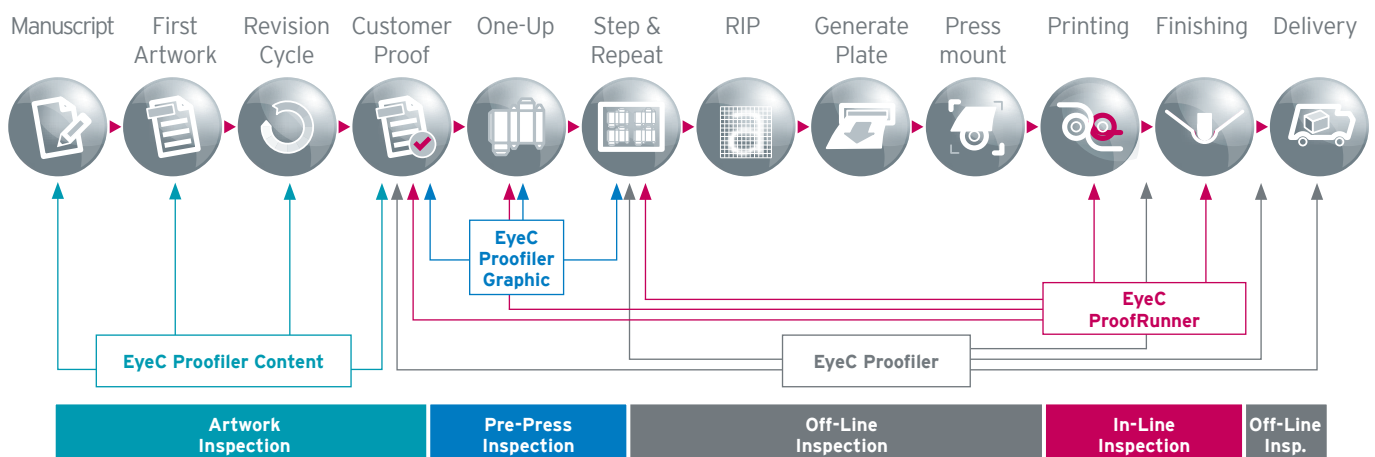
Comprehensive

The EyeC ProofRunner gives you the advantage that you can be sure to print and deliver exactly what your customer expects.

Key Features

- **100% job inspection**
  Ensures quality and keeps customers satisfied.

- **High and low priority regions**
  Meets quality requirements while limiting waste.

- **Hot and cold stamping / reflecting surface inspection**
  Addresses the different market needs.

- **Predefined parameter sets to select tolerance**
  Adapt the inspection sensitivity to each job with one click.

- **Running total of good and defective items**
  Prevents underdeliveries.

- **Comprehensive inspection report**
  Keeps track of inspection results and certifies quality.

The Design and Printing Process

Manuscript — First Artwork — Revision Cycle — Customer Proof — One-Up — Step & Repeat — RIP — Generate Plate — Press mount — Printing — Finishing — Delivery

EyeC Proofiler Graphic

EyeC Proofiler Content

EyeC Proofiler

EyeC ProofRunner

| Artwork Inspection | Pre-Press Inspection | Off-Line Inspection | In-Line Inspection | Off-Line Insp. |

Technical specifications*

System		EyeC ProofRunner		
Version		**Web**	**Carton Folder Gluer**	**Carton Sorter**
Available Cameras	Standard	4k color	4k color	4k color
	Optional	4k monochrome 8k monochrome	4k monochrome 8k monochrome	4k monochrome 8k monochrome
Available Inspection Widths	Standard	450 mm (17.71")	420 mm (16.53")	450 mm (17.71")
	Optional	550 mm (21.65") 760 mm (29.92")	550 mm (21.65") 660 mm (25.98") 760 mm (29.92")	550 mm (21.65") 760 mm (29.92")
Example	Inspection width	450 mm (17.71")	420 mm (16.53")	450 mm (17.71")
	Camera	4k color	4k color	4k color
	Resolution	231 dpi	244 dpi	231 dpi
	Smallest detectable defect**	0.22 mm (0.009")	0.21 mm (0.008")	0.22 mm (0.009")
	Max. speed	420 m/min (1,378 ft/min)	400 m/min (1,312 ft/min)	420 m/min (1,378 ft/min)
Features & Options	Checks against customer proof	optional	standard	standard
	Automatic definition of priority regions	optional	optional	optional
	EyeC Quality Link	optional	not available	not available
	Color monitoring	optional	optional	optional
	1D and 2D code reading	optional	optional	optional
	Variable code tracking	optional	optional	optional
	Variable data inspection	optional	optional	optional
	Additional live web view	optional	optional	optional
	Defects heatmap	optional	optional	optional
	Health warning inspection	not available	not available	optional
	Distance measurement	optional	optional	optional

* These technical specifications are based on standard assumptions. All values provided are to our best knowledge at the time this sheet has been created and subject to change without further notice.

** At a difference of at least 50 gray scale levels.

The EyeC ProofRunner
- is objective and easy to use
- performs 100% job inspection
- asserts consistency between all printed objects that are printed simultaneously
- gives you 100% mix-up prevention
- provides content verification, in any language and any alphabet
- gives 100% assurance that the print is identical to the signed off customer proof
- is fully validatable

EyeC
quality control systems

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