Patient safety first

Photon Automated medication pouch checking Medication delivery patients can trust

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May we introduce... Photon





A new era of delivering medication

Automatic dispensed medication has become the standard for delivering medication to patients in a safe, secure and cost effective manner. With an ageing population and increasing pressure on national health care systems, the demand for automatic dispensed medication will continue to grow over the next years. As a result, the requirements for Pharmacies to deliver medication will demand absolute safety of quality and simultaneously keeping costs to a minimum.

Our promise

ZiuZ has been helping Pharmacies to raise quality and efficiency within their dispensing process for more than half a decade now. This experience, combined with our visual intelligence technology and valuable client input were used to design Photon, our latest automatic medication pouch checking machine. With Photon, we set new standards for delivering medication patients can trust.

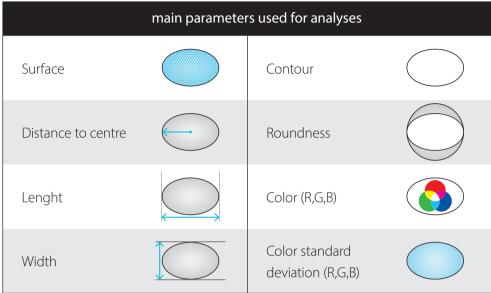
Unparalleled quality. Optimized, cost effective process. Scalable solution.

ZIUZ. | medical

Unparalleled quality

PHOTON





Multi-spectrum analysis based on shape, size and full colour

Photon has an unmatched colour and near infrared image analysis that uses 13 parameters, and so ensures an extremely accurate examination of the content of the pouch – an examination you can rely on.

Instant error reporting with colour coding

Photon reports errors by displaying pictures of the pouch with clear colour coding in the software application, so there is no need for sticky adhesives on the pouches themselves. Errors are clearly signaled through pinpoint indication. This very intuitive method ensures that errors are easily spotted so that corrections can be made accurately.

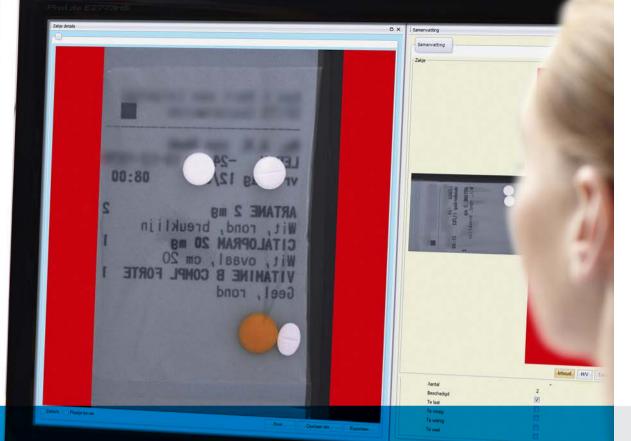
False positive rate scientifically analysed: 1.33 errors per million*

Quality is our core value. Therefore, we decided to design Photon with an unparalleled accuracy. The likelihood of Photon approving a pouch falsely has been proven in a scientific study to be 1.33 in a million.

Up to 98% of production auto-approved **

Photon works with an approval rate as high as 98%, which means only a fraction of the pouches need to be examined visually.





donderdag zalerdag donderdag 11 feb 2010 vrijdag • •

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Optimized process













Corrector

for pulling up pictures of erroneous pouches and taking pictures of corrected pouches. Which are then added to the originals in the database.



A fully integrated and cost effective process

Watertight process from pouch production to dispatch

ZiuZ has developed several tools with barcode scanning for separating and pointing out errors and for tracking and tracing of patient rolls. This ensures patient rolls are handled correctly and follow the right path to the patient.

Manager application

Photon comprises with a manager application allowing for easy pouch picture retrieval in the case of complaints, for quality statistics reports, production statistics reports and for easy handling of the reference

database. Being able to monitor all steps makes it possible to keep manual handling to a minimum and design a cost effective process.

ΧТ for serial winding of patient strings.

Photon

for instant analysis.

Viewer

for on-screen visual checking of suspect pouches, with intuitive error-finding through intelligent pinpointing.

Batch Validator for selecting erroneous patient rolls for correction and defining completion of batch.





Scalable production capacity



(or 3,600 or 2,400)

pouches per hour

192

(or 128 or 85)

patient week rolls of 28 pouches per roll

Fully scalable to match your production needs

Photon comes in 3 versions with increasing capacity, 2,400 (Photon 24), 3,600 (Photon 36) and 5,400 pouches per hour (Photon 54). Photon 24 and 36

are upgradable to 36 and 54. A hassle free capacity increase makes it possible to anticipate future growth. Please contact us to determine your optimal capacity.

Complete your process with XT



Serial patient string winding at same speed

The optional extention Photon XT is winding, cutting and labeling patient rolls at the same speed Photon has. A clean and hands-off process. Quality for the XT was translated into a seamless process of winding, cutting and labelling, keeping handling minimal and pouch and content quality optimal. With the XT, you will be able to complete the packaging process. Labelling the rolls with an adhesive strip on the inside, makes it easy to correct wrongly packed pouches and to re-wind and label it afterwards.

Correcting pouches made easy





Complete the pouch inspection process by adding a Corrector to Photon

Collecting evidence of corrected pouches is fast and easy with the Corrector. Its top-class camera captures the corrected pouch in a perfect photo. The single-click confirmation mechanism takes the user through the correction process without using the mouse. The Photon software provides a simple and easy to use workflow

for correcting pouches. Details on what medication to correct and in which pouch is within direct reach of the user from the integrated correction tab. A simple pouch correction wizard helps the user to take the right photo.

Photon overview

- Analysis using 13 parameters
- As low as 2% false negatives through multiple spectrum analysis (visual and near-infrared)
- Easy reference database accrual and update during production process
- Self-teaching feature during production process creating reference images for new medication
- 2,400 (Photon 24), 3,600 (Photon 36) or 5,400 (Photon 54) pouches checked per hour
- Only 1.33 pouches per million falsely approved*
- Extended archiving of pictures to 1 year and longer
- Seamless integration with existing ZiuZ production environment

Dimensions

	Photon	ХТ
Width:	192 cm	95 cm
Depth:	67 cm	60 cm
Height:	145 cm	125 cm

*Data on file: quality report 0.7. Study can be made available on request. **Data from real production. Production site can be made available on request



ZiuZ Medical

ZiuZ has built a long and successful experience with the Inspector and Photon high volume pouch checking devices. ZiuZ Medical operates independently of drug dispenser machine manufacturers and can interface with all main dispenser machine brands. The production of millions of medication pouches are checked by ZiuZ Medical inspection devices on a daily basis.

ZiuZ Medical is a knowledge-intensive company specialized in developing cuttingedge visual intelligence technology for pharmaceutical and medical purposes. It is driven by a determination to make a difference in medical challenges. The company has a pragmatic and no-nonsense approach; an approach that encourages successful collaboration with partners and customers.

Our Mission: Achieve a worldwide impact with profitable and innovative solutions, based on visual intelligence, that deliver a contribution to solving social relevant problems in the medical world.

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