



eyemate<sup>®</sup>

**Your aide in glaucoma care**

Simple self-measurement of  
intraocular pressure

**Anytime – Anywhere**

[www.my-eyemate.com](http://www.my-eyemate.com)

## Glaucoma: Excessive intraocular pressure can cause gradual vision loss

Glaucoma is a group of eye diseases in which the optic nerve in the eye is damaged. The irreversible loss of vision, that patients can develop as a result of the disease, progresses unrecognized in its early stage. Glaucoma is often diagnosed only when considerable vision loss has already occurred.

One of the major causes of progressing vision loss is an increased or greatly fluctuating intraocular pressure.

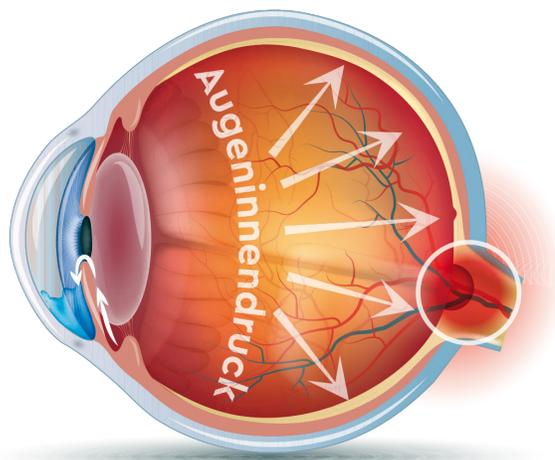
With increasing age, the risk of developing glaucoma grows. In Europe, around seven million patients have been diagnosed with glaucoma<sup>1</sup>. Data from the World Health Organization (WHO) show that by 2020, the rate of glaucoma-related blindness in Europe will rise to 13.9%<sup>2</sup>.

### Objective of all glaucoma therapies:

#### Reduced and controlled intraocular pressure, maintaining sight.

Occurred damage to the optic nerve and loss of vision are irreversible. Every glaucoma therapy is therefore designed to prevent the progression of the disease.

Increased intraocular pressure occurs when within the eye more aqueous humor is produced than can drain through the chamber angle. The resulting increase in pressure on the optic nerve can cause permanent damage and lead to progressive vision loss.



For this, your eye care specialist has a variety of medical and surgical therapies, all with the same goal: to lower the increased intraocular pressure in order to reduce the risk of further vision loss.

### Ocular pressure measurements at the doctors office are important but only provide snapshots.

Increased or vastly fluctuating intraocular pressures during the day cannot always be reliably detected during the individual measurements in the ophthalmologist's office.

In order to get a better understanding of your eye pressure profile and determine the best form of therapy for you, the intraocular pressure would have to be measured much more frequently than is possible with today's methods.

For this reason, the ophthalmology community has long been searching for methods which provide more frequent and more reliable intraocular pressure measurements and which enable patients to measure themselves anytime and anywhere. This has been established in other chronic diseases such as hypertension or diabetes for a long time.

### eyemate®:

#### Measuring intraocular pressure anytime and anywhere

With **eyemate®**, simple and frequent self-measurement of intraocular pressure by you as a patient is possible now for the first time.

### eyemate® – the advantages

- You are always aware of your intraocular pressure, as you can easily take measurements in your normal daily routine, anytime, anywhere.
- Your doctor will gain a better insight into the course of your intraocular pressure and can optimally adjust the therapy to your individual needs.
- Individualized glaucoma therapy increases the chances of avoiding further vision loss.

## How eyemate® works

With **eyemate®** you are able to measure your intraocular pressure quickly and reliably: You activate the **eyemate®** reader and simply keep it in front of your eye with the **eyemate®** sensor.

This non-contact measuring process takes only a few seconds and can be repeated as often as you like. Each reading is automatically displayed on your reader and stored there along with the time of measurement.

### The **eyemate®** sensor

The heart of the **eyemate®** systems is a tiny pressure sensor. This micro-sensor for intraocular pressure measurement is hermetically embedded in a soft, biocompatible material broadly used for long-term medical implants. All materials used are of high quality and are strictly controlled.

The **eyemate®** pressure sensor is used as part of a „cataract“ operation and remains indefinitely in the eye together with the inserted artificial lens.



## Anytime, anywhere, as often as you want



### The **eyemate®** reader

The **eyemate®**-reader measures and records your intraocular pressure within a few seconds. Turn on the reader and hold it close to your eye.

After the **eyemate®** reader has received and stored the measurement data, the pressure sensor and the reader are immediately in idle mode. Both are inactive until the next measurement is made by you.

### The **eyemate®** module for digital data transmission

Thanks to the values transmitted by **eyemate®**, your doctor will receive a much more comprehensive picture of your disease and the success of your treatment - in addition to measurements performed in the doctor's office.

## Without additional surgery: This is how eyemate® is implanted

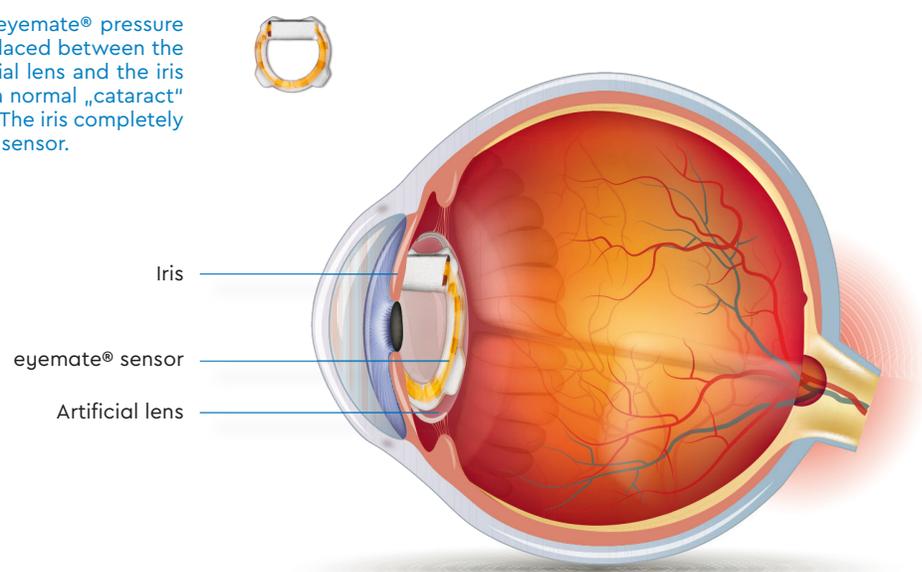
The **eyemate®** pressure sensor for glaucoma patients is inserted into the eye together with the artificial lens during a cataract surgery. Therefore, no separate operation is necessary for the placement of the small micro-sensor. Operations for a cataract are among the most common interventions worldwide: In Europe, around 4,500,000 eye surgeries are performed each year for cataracts<sup>3</sup>.

### The course of the operation

In cataract surgery, the opaque eye lens behind the iris is removed and replaced with an artificial lens. During the same operation, the small **eyemate®** sensor is also placed behind the iris, but in front of the implanted artificial lens.

Experience has shown that patients do not consciously perceive neither the artificial lens nor the **eyemate®** sensor after the operation. Since the sensor is completely covered by the iris, it is not visible from the outside.

The small **eyemate®** pressure sensor is placed between the new artificial lens and the iris as part of a normal „cataract“ operation. The iris completely covers the sensor.



## eyemate®: Important questions and answers

### What is **eyemate®**?

With **eyemate®**, as a glaucoma patient, you can easily measure your intraocular pressure yourself and actively contribute to the optimization of your glaucoma therapy.

**eyemate®**-IO is CE approved for use in patients with open-angle glaucoma as part of cataract surgery.

### How is the **eyemate®** sensor implanted?

The **eyemate®** sensor for glaucoma patients is used during a „cataract“ operation. This operation is a routine intervention that is performed more than 4,500,000 times a year in Europe alone<sup>4</sup>.

### Does the **eyemate®** sensor cause discomfort?

No. The tiny pressure sensor, embedded in soft, biocompatible material is not perceived by the patient after the usual healing phase experience.

### Does the **eyemate®** sensor interfere with the view?

No. The sensor is ring-shaped and is not visible behind the iris. The patient's vision is not affected.

### Does the **eyemate®** sensor contain a battery?

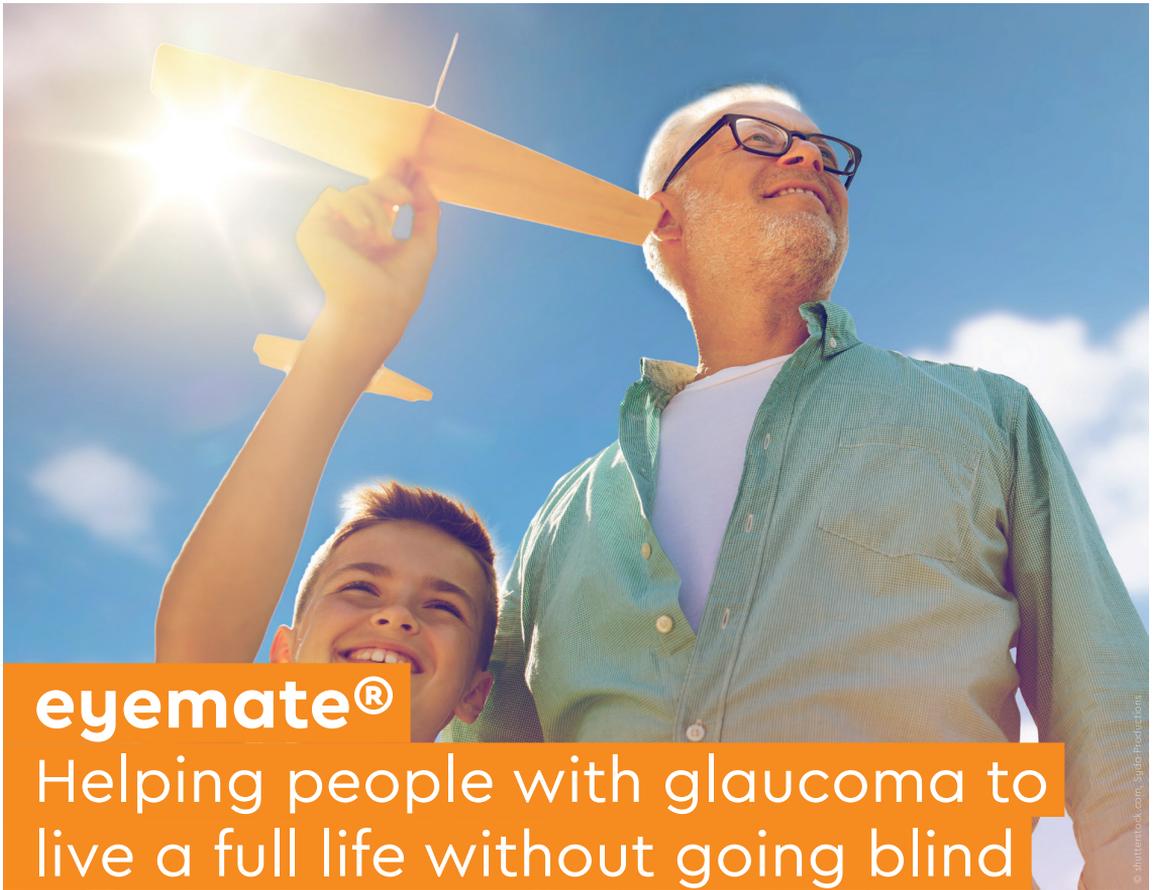
No. For the measurement, the **eyemate®** sensor is powered externally by the reader. The energy pulse during the measurement, which only takes a few seconds, is absolutely harmless<sup>4</sup>.

### For whom are the measured data accessible?

The measured data is only stored in the reader. You can make the data accessible to your ophthalmologist at your next visit. Important: As a patient, you have full control over your data at all times.

### How much does the **eyemate®** system cost for patients?

**eyemate®** is currently not part of the service catalog of the statutory health insurance companies. Please talk to your certified **eyemate®** center.



© Shutterstock.com, Saja Productions

**eyemate®**

Helping people with glaucoma to  
live a full life without going blind

Intraocular pressure self-measurement  
for glaucoma patient

**IOP**

Impladata Ophthalmic Products GmbH

Kokenstraße 5  
30159 Hannover, Germany

**eyemate®-IO**  
is CE marked  
approved for use  
within Europe.

[www.impladata.com](http://www.impladata.com)

Patient-Info-eyemate-IO-2019-04-10-EN