

CUSTOMFLEX[®] ARTIFICIAL IRIS – PHOTO DIRECTIVES

ONLINE CERTIFICATION COURSE

CUSTOMFLEX® ARTIFICIAL IRIS

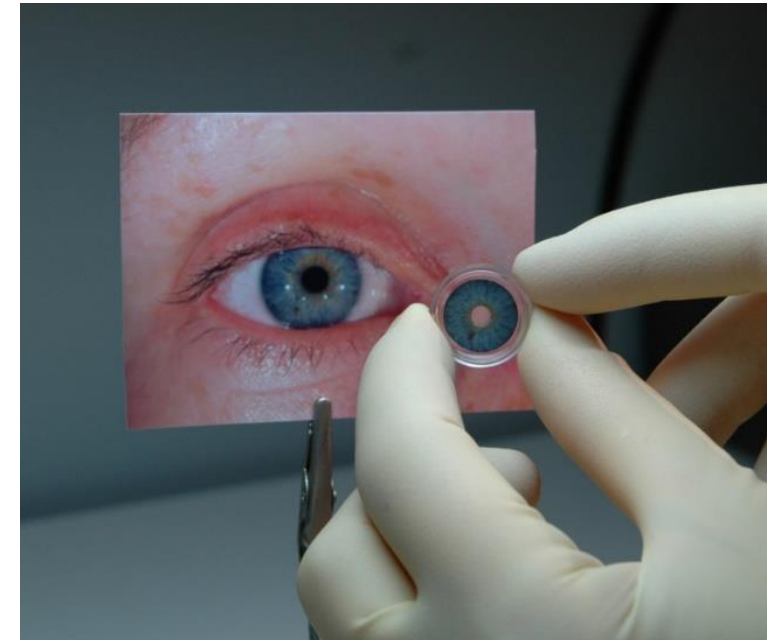
Order process – Taking pictures

Important hints for taking pictures for production

Purpose:

Since the manufacturer is not able to see the patient's natural iris, it is necessary to rely on the pictures.

The color of every computer screen and printer appears different as a result on a photo. Therefore, it is always necessary to **evaluate the printout** (hard copies).



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Order process – Taking pictures

What kind of pictures do we need?:



It is best for production and clinical discussion to have a picture of both eyes.

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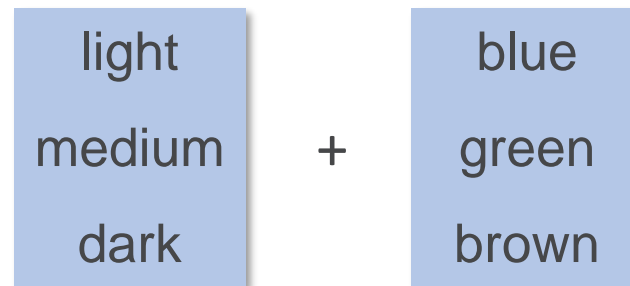
CUSTOMFLEX® ARTIFICIAL IRIS

Order process – Taking pictures

Exception: no iris present bilaterally (e.g. congenital aniridia)

Since there are no iris remnants that can be copied in the production process, patients can choose their own target color by ...

- choosing a close-up picture of an iris from a magazine,
- choosing a close-up photo of e.g. a relative's eye(s),
- stating on the order form a description like “medium blue” by using the following components:



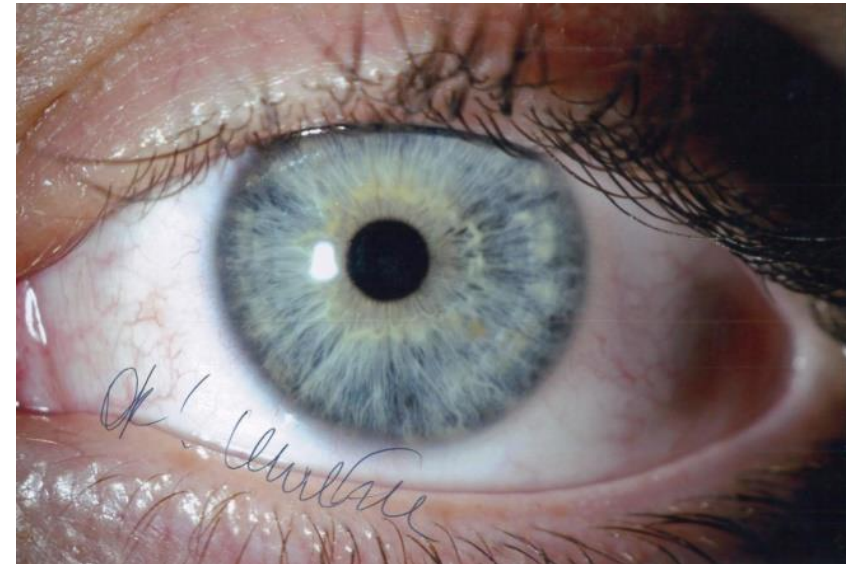
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Order process – Taking pictures

What are the most important aspects for taking and evaluating the picture?

- **Illumination** of the eye
- **Sizing** of the iris on the picture
- **Sharpness** of the picture
- Use only **photo paper** for the printouts and compare this with the natural iris
- You can be helped by professional photographers if you wish
- Please **sign only one** picture to be used for the production



Example of a perfect picture for production

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Order process – Taking pictures

Procedure:

1. Illuminate the eye of the patient evenly, not to produce shadows on the iris.



2. Make a white balance with your camera at the exact place where you want to take the photo of the patient's eye; a white or grey chart is necessary.



3. Ensure that the iris of the patient is completely visible and in focus.

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Order process – Taking pictures

Principles:

- Slit lamps, fundus cameras or video cameras are not suitable for taking good pictures
- Good, even illumination of the eye is essential
- Ideally use:
 - Flash with softbox or ring flash

Note: regular flash can overexpose the photo and cause reflexes

or:

- Continuous light at approx. 3200 Kelvin

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CUSTOMFLEX® ARTIFICIAL IRIS

Order process – Taking pictures

Principles:

- Laser printers are usually not as good as ink-jets
- Photo paper shows better results than usual copy paper

If not set up for high quality photography and photo printouts, it is recommended to send the patient to a professional photographer.

The evaluation process of the printouts still needs to be performed by the surgeon together with the patient!

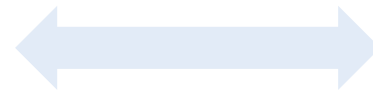
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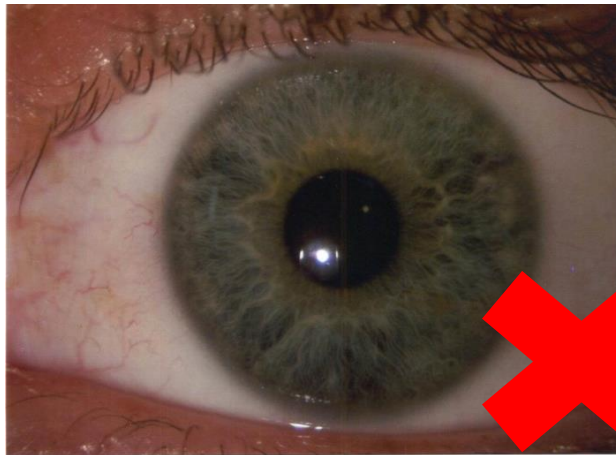
Order process – Taking pictures

Illumination of the eye

Conjunctiva has a reddish color
Iris color is greenish
Picture seems underexposed



Conjunctiva is white
Iris color is bluish



Both times same patient,
Difference:
Illumination of the eye

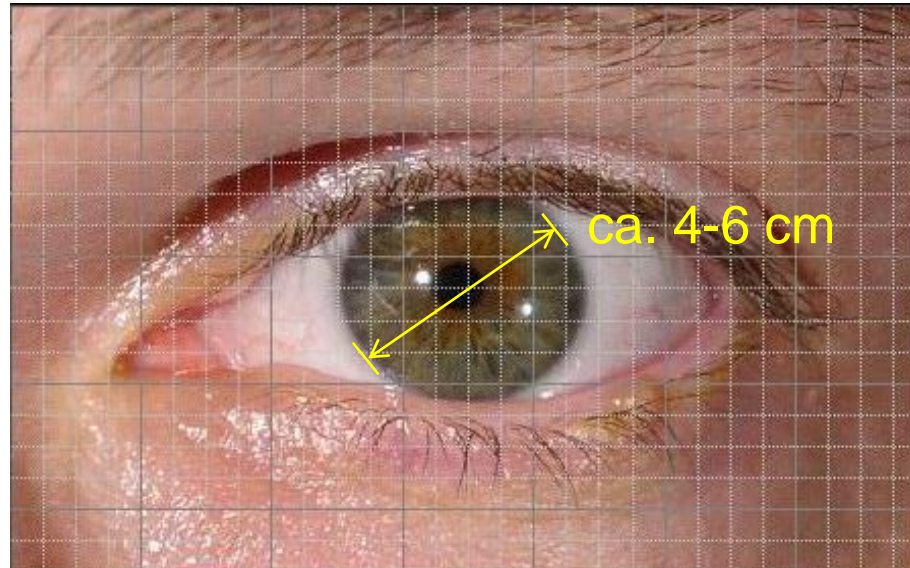


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Order process – Taking pictures

Sizing of the iris on the picture



Standardized picture:

- Size of photo 9 x 13 cm (3.5 x 5")
- Size of iris approx. 4 – 6 cm (1.5 – 2.5")

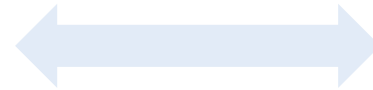
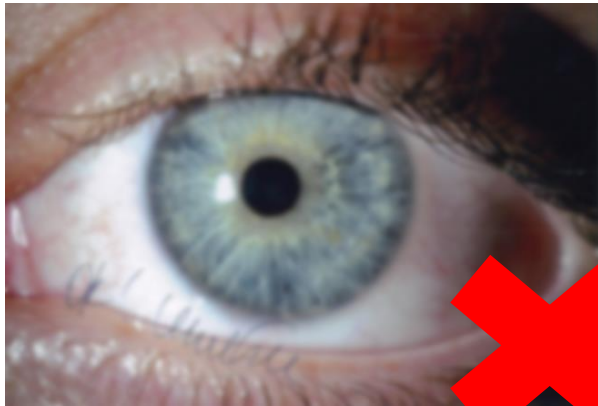
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Order process – Taking pictures

Sharpness of the picture

All colors look blurred
Details can't be seen



All structures are imaged
in detail
The colors and details
can be clearly identified



Both times same patient,
Difference:
Sharpness of the picture,
please focus on the natural
iris



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Order process – Taking pictures

Use only photo paper for the printouts and compare this with the natural iris

- Compare the natural iris to the printout under the same light conditions
- Hold the printout right next to the patient's eye
- Compare if the conjunctiva is white on the printout
- Do the color patterns of the natural iris match the printout's color composition?



→ Surgeon initials and signs the picture, which should be used for production.

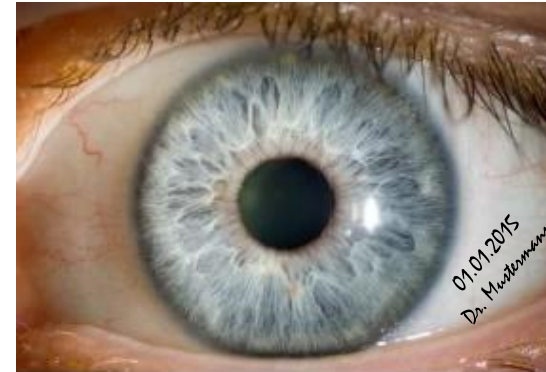
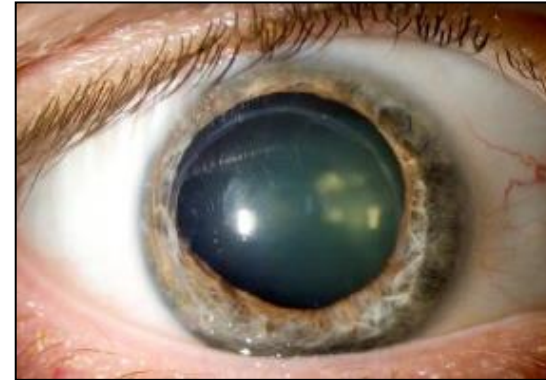
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Order process – Taking pictures

Points to check:

- ✓ Pictures available from the right eye, the left eye and both eyes together?
- ✓ Does size of pictures and iris on the photo meet the specifications?
- ✓ Is the conjunctiva white?
→ Color tint **might** be an indicator of wrong iris color
- ✓ Pictures in focus?
- ✓ Are reflexes prevented?
- ✓ Is the picture for production signed and dated by the surgeon?



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CUSTOMFLEX® ARTIFICIAL/IRIS

Order process – Taking pictures

- A good printout is the key for the color-match of the CUSTOMFLEX® ARTIFICIAL/IRIS
- Appropriate equipment can assist in taking good pictures
- Only the surgeon on-site can check and verify if the printout matches the natural iris



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CUSTOMFLEX® ARTIFICIAL IRIS

Order process – Taking pictures

Professional photographers can support you

If the clinic or physician does not have the necessary equipment to take high-quality photos and prints, we recommend that the photographs are taken by a professional photographer.

Please note:

The manufacturer is not liable for a postoperative difference in color between the natural iris tissue and the iris implant.

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CUSTOMFLEX® ARTIFICIAL IRIS

Order process – Taking pictures

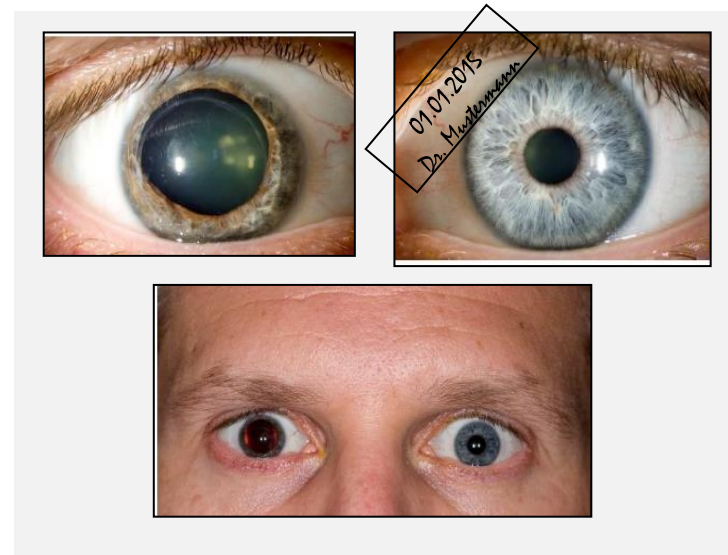
Please note:

We can only proceed the order with all required documents!

Please send us only photo printouts as a hardcopy on photo paper, which fulfill the photo directives and sign only one picture of the healthy eye for production.



The form is titled 'HUMANOPTICS ARTIFICIAL IRIS ORDER FORM'. It includes fields for 'FROM' (Surgeon's name, Clinic address, Phone/Fax, E-Mail) and 'PLEASE SEND' (Directly to local distributor or HumanOptics, HumanOptics Holding AG, Spandorfer Str. 100 | 91054 Erlangen | Germany). A 'DISTRIBUTED BY' section is also present. The form contains several checkboxes and radio buttons for selecting options like 'I, the undersigned, hereby order a custom-made Artificial Iris as follows:', 'Surgeon certificate no. provided', 'Patient ID:', 'Eye to be treated' (RE or LE), 'Aniridia type' (congenital or acquired), 'Model selection' (Artificial Iris with Fiber or without Fiber), and 'Standby selection' (with one or two standbys). A 'CHECK LIST' at the bottom requires photo printouts of the right eye, left eye, and both eyes together, and a signed and dated order form. The form also includes a date field, surgeon signature, and patient signature (optional).



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CUSTOMFLEX® ARTIFICIAL/IRIS

Important notes – Delivery composition



Please note:

- The color of a CUSTOMFLEX® ARTIFICIAL/IRIS matches closely the template photo, but slight color variation due to the individual hand-made coloring process may be possible.
- The appearance and color of the CUSTOMFLEX® ARTIFICIAL/IRIS in air is slightly darker in comparison to the product delivered in saline solution and in the eye after implantation.
- Ambient lighting can affect the appearance, color or lumination of the device



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CUSTOMFLEX® ARTIFICIAL IRIS

Important notes – Delivery composition



Please note:

- The iris sticker on the packaging should only give an orientation regarding the individual coloring of the device and can't be evaluated as a 1:1 match of the device.



The manufacturer is not liable for a postoperative difference in color between the natural iris tissue and the iris implant.



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For more detailed information on the ordering process, please visit the following link
www.humanoptics.com/en/physicians/artificialiris/ordering/



The ordering process

ARTIFICIALIRIS step by step

Read more

PHYSICIANS / ARTIFICIALIRIS / Ordering

The ordering process

Because the CUSTOMFLEX® ARTIFICIALIRIS is an individually manufactured product, the production time is usually four to eight weeks. To ensure speedy processing, please note the following when ordering the implant:

Overview of topics

Online Certification Course



Photo printout



Order form

