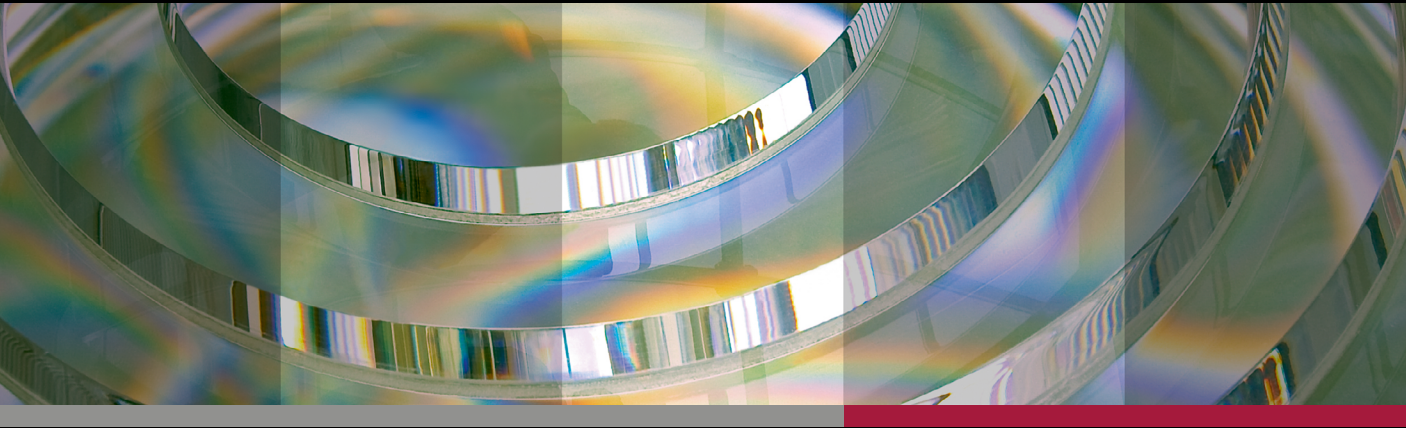


Quick Tutorial:
IOL Database
and Calculation



ANTERION®

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ENGINEERING**



ACADEMY

Master IOL Database Settings

Importing a Master IOL Database



You must have Keyuser permission in HEYEX 2 to access **Default settings** to import a master IOL database or edit spheric and toric IOL availabilities. If you do not have Keyuser permissions, please consult your IT administrator.



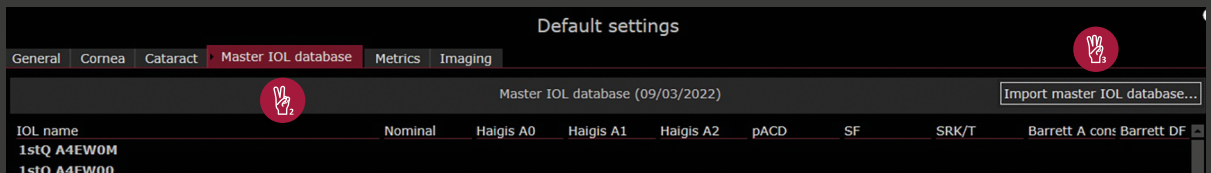
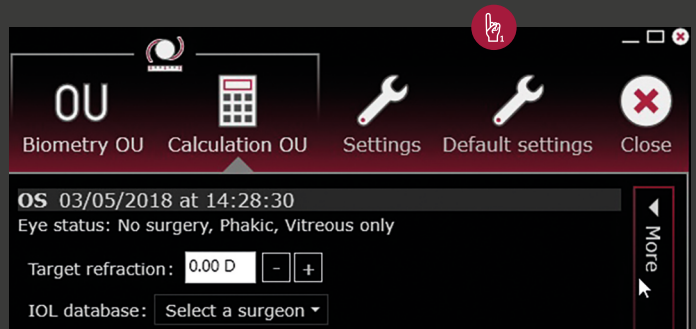
Double click on any ANTERION thumbnail in HEYEX 2 to open the image and click on **Default settings**.



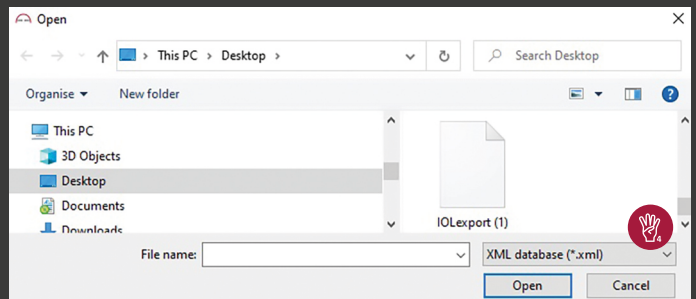
Click on **Master IOL database**.



Click on **Import master IOL database...**



Select **XML database** from the dropdown menu. Navigate to the file and click **Open**. Heidelberg Engineering recommends downloading an XML database from <https://iolcon.org>



Read the End User License Agreement (EULA) and click Accept to agree. When importing as an XML, select your preference to import either Manufacturer provided or Optimized IOL constants. The IOL database will be imported and **Import master IOL database... (Succeeded)** will be displayed.

Editing Spheric & Toric IOL Availabilities






Click on **Default settings** and open the **Master IOL database**.



Click on the desired IOL and click





- Click  next to Spheric availability and Toric availability to edit the data.
- Click  OK to save the data.
- Click  Save as default at the bottom of the default settings page to save the changes.

Edit entry in master IOL database	
IOL name	Alcon AcrySof IQ Vivity Toric DFT (2-6)15
Nominal	118.80
Haigis A0	
Haigis A1	
Haigis A2	
pACD	5.67
SF	1.90
SRK/T	119.20
Barrett A const	119.20
Barrett LF	1.99
Barrett DF	5.00
Spheric availability	From 10.00 D to 30.00 D available in 0.50 D steps
Toric availability	From 1.00 D to 1.00 D available in 0.00 D steps From 1.50 D to 1.50 D available in 0.00 D steps From 2.25 D to 2.25 D available in 0.00 D steps From 3.00 D to 3.00 D available in 0.00 D steps From 3.75 D to 3.75 D available in 0.00 D steps
<input checked="" type="checkbox"/> OK <input type="checkbox"/> Cancel	

Creating a Personal IOL Database

If you are using generic HEYEX 2 login credentials (i.e., head) the personalized IOL database will be the default for all clinicians using this login. If you are using individual HEYEX 2 login credentials (i.e., a unique username and password) you can personalize an IOL database to your individual account. When editing personal IOL database make sure to log in as the desired user. For help with HEYEX 2 user credentials, please contact your Heidelberg Engineering support representative.

Adding an IOL via Master Database

- Double click on any ANTERION thumbnail acquired using the Cataract App to open the image and click on **Settings**.
- Click on the **Personal IOL database settings** tab.
- Click on the desired IOL in the master IOL database and press .
- The selected IOL is added to your personal database.
- Click  **Save** when you have finished adding personal IOL's to your database. This will save the IOL database as the default to the account you logged in with.

Report
Info
Settings
Close

Personal ICL database settings ⚙️

Settings

Personal ICL database settings ⚙️

Default ICL database: John Doe <v>

ICL name	Normal	Hugin A0	Hugin A1	John Doe <v> Hugin	gACD	SP	SRMT	Barrett A const	Barrett DF
Atom Acrypol 1Q Vinyli M1013	118.00				5.67	1.90		119.20	119.20

Master ICL database (09/05/2022)

name	Normal	Hugin A0	Hugin A1	Hugin A2	gACD	SP	SRMT	Barrett A const	Barrett DF
Hydrohalide: 11A3560	117.30	0.950	0.400	0.100	4.96	1.37			
Hydrohalide: 11V302	117.30	0.950	0.400	0.100	4.96	1.37			
Hydrohalide: 11V3022	117.30	0.950	0.400	0.100	4.96	1.37			
Opticalhalide: P0031300	118.00	1.273	0.400	0.100	4.96	1.56			
AK Spectralone: M0000075	117.30	0.950	0.400	0.100	4.96	1.37			
Atom Acrypol Acrylonitrile	118.00	0.760	0.234	0.217	5.68	1.98		119.00	119.00

Atom Acrypol 1Q Vinyli M1013

name	Normal	Hugin A0	Hugin A1	Hugin A2	gACD	SP	SRMT	Barrett A const	Barrett DF
Atom Acrypol 1Q Vinyli Isom: 1ET <P>313	118.00				5.67	1.90		119.20	119.20
Atom Acrypol 1HAC000H	118.00	1.250	0.400	0.100	5.90	2.12		119.49	119.49
Atom Acrypol 1HAC000H	118.00	0.220	0.011	0.200	76.67	1.90		119.20	119.20
Atom Acrypol 1HAC000A <1>0	118.00	0.760	0.400	0.100	15.34	16.29		126.60	126.60
Atom Acrypol 1HAC000A <1>0	118.00	7.200	0.400	0.100	75.32	7.68		103.60	103.60
Atom Acrypol 1HAC000C	118.00	0.220	0.011	0.200	6.67	1.90		119.20	119.20
Atom Acrypol 1HAC000A <1>0	118.00	5.760	0.400	0.100	15.34	16.29		126.60	126.60
Atom Acrypol 1HAC000A <1>0	118.00	0.220	0.011	0.200	5.52	7.68		103.60	103.60

Adding an IOL Manually

- Double click on any ANTERION thumbnail acquired using the Cataract App to open the image and click on **Settings**.
- Click on the **Personal IOL database settings** tab.
- Click the in the top right corner.
 - In the **Add IOL to my IOL database** window, enter an IOL name and the desired IOL constants.
 - Edit the **Spheric** and **Toric** availability by pressing .
 - Click **Create** to add the IOL to your personal IOL database.
 - Click **Save** to save the changes.
- Manually added IOL's will be displayed in **blue**.
- Click **Save** at the bottom on the screen to save the IOL to your personal IOL database.



Add IOL to my IOL database

IOL name

Manual IOL

Nominal

Haigis A0

Haigis A1

Haigis A2

pACD

SF

SRK/T

Barrett A const

Barrett LF

Barrett DF

Spheric availability

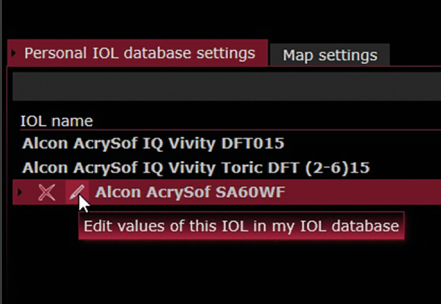
Toric availability

Create

Cancel

Editing IOL Constants

- Double click on any ANTERION thumbnail acquired using the Cataract App to open the image and click on **Settings**.
- Click on the **Personal IOL database settings** tab.
- Click on the IOL you want to edit and press .
- Edit the values in the **Edit entry in my IOL database** window.
- Click **OK**, the manually edited entries will be displayed in **blue**.
- Click **Save** at the bottom of the screen to save the changes.



Calculating IOLs

Calculating & Selecting Spheric IOLs

- 1 Click on the **Calculation OU** tab.
- 2 Click $-$ $+$ next to **Target refraction** to specify the desired spherical equivalent target refraction or enter the value manually.
- 3 Select the IOL database from which you want to retrieve the IOLs from the dropdown list.
- 4 Select the desired formula and IOL from the dropdown lists.
- 5 Click on the check box next to the desired combination of IOL power and Residual refraction values (so they are highlighted **yellow**) and click **Report** at the top of the screen to save the IOL calculation for the patient.

Calculating Toric IOLs & Incisions

After calculating the spherical IOL power, click **Open toric/incision calculator**.

- 1 Select parameters from the **Astigmatism** dropdown list.
- 2 Enter the value for **Incision location** in the text field and enter the value for **Surgically induced astigmatism** in the text field to calculate the IOL axis.
- 3 You can also edit the incision location value by dragging and dropping the green incision location line on the camera image, and manually change the position of the IOL axis by dragging and dropping the red dashed line on the camera image. Click on **Automatic** to undo the IOL axis changes.
- 4 Click on the check box next to the desired toric calculation values. They will be highlighted in **blue**.
- 5 Click **Report** to save the IOL calculation for the patient then click **Back to spherical calculator**.



The user interface is different when calculating IOLs with Barrett formulas. Please consult the user manual for more information.

Working with Templates

Creating & Saving a New Template




Save your preferred combination of formula and IOL parameters in the **Calculation OU** tab by creating a template.




Select the combination of formulas and IOLs you wish to save as a template.



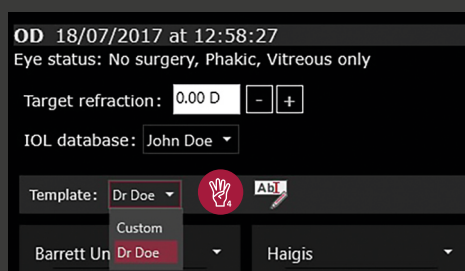
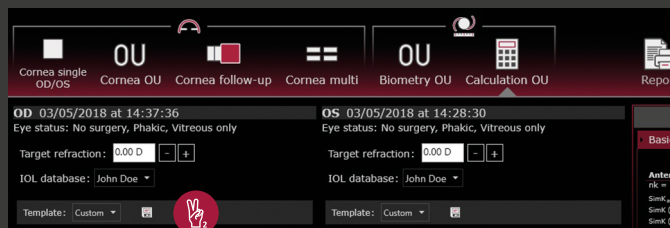
Click  next to the **Template** dropdown list.



Enter a name for the template and click .



The template can now be selected from the dropdown list.




Setting a Template as Default



You must have Keyuser permission in HEYEX 2 to set a template as default. Doing this will default the selected template to all HEYEX 2 users on the network.



Double click on any ANTERION thumbnail to open the image and click on  **Default settings**.




Click on **Cataract**.



Select the desired template from the **Default spheric calculations template** dropdown list.



Click  **Save as default** and close the **Default settings** window.

