# RECOMMENDED IOL CONSTANTS SUGGESTED AS A STARTING POINT FOR POWER CALCULATION

**Please note, constants should be individualized subsequently per surgeon to enable highest precision and best predictability!**

| MODEL | RECOMMENDED CONSTANTS FOR LASER INTERFEROMETRY AND IMMERSION ULTRASOUND BIOMETRY | | | | | | | ESTIMATED MANUFACTURER A-CONSTANT[5] |
|---|---|---|---|---|---|---|---|---|
| | HAIGIS | HOFFER Q (PACD) | HOLLADAY (SURGEON FACTOR) | HOLLADAY 2[2] | SRK/T KANE[6] | SRK II[3] | BARRETT LF/ DF[4] | OPTICAL (ACUSTICAL) |
| ASPIRA-aA[1]<br>ASPIRA-aAY[1] | $a_0$= -1.629<br>$a_1$= 0.235<br>$a_2$= 0.246<br>Note: $a_0$ is negative | 5.40 | sf=1.66 | 5.374 | 118.78 | 119.0 | 1.77/ - | 118.4<br>(118.1) |
| ASPIRA-aXA[1]<br>ASPIRA-aXAY[1] | $a_0$= -0.521<br>$a_1$= 0.269<br>$a_2$= 0.215<br>Note: $a_0$ is negative | 5.924 | sf=2.17 | 5.724 | 119.57 | 119.8 | 2.18/ - | 118.3<br>(118.0) |
| TORICA-aA<br>TORICA-aAY | $a_0$= 1.18<br>$a_1$= 0.4<br>$a_2$= 0.1 | 5.35 | sf=1.51 | 5.199 | 118.30 | 118.4 | 1.52/ - | 118.4<br>(118.1) |
| TRIVA-aA[1]<br>TRIVA aAY[1] | $a_0$= 0.636<br>$a_1$= 0.277<br>$a_2$= 0.153 | 5.69 | sf=1.96 | 5.670 | 119.29 | 119.0 | 2.04/ - | 118.4<br>(118.1) |
| TRIVA T-aA<br>TRIVA T-aAY | $a_0$= 1.426<br>$a_1$= 0.4<br>$a_2$= 0.1 | 5.63 | sf=1.90 | 5.670 | 119.21 | 119.0 | 1.99/ - | 118.9<br>(118.6) |

**References:**

[1] Data Source: Optimized IOL Constants by IOLCon.org https://iolcon.org (Version: 07.11.2024), please scan the QR-Code for the latest optical constants. The constants optimization based primary on biometric values of Caucasian patients measured by the IOLMaster (Zeiss).
[2] The ACD-constant of the Holladay 2 formula refers to the optimized SRK/T constant. Further optimizations are not intended.
[3] The A-constant of the SRK II formula is not subject to any further adjustments.
[4] The Barrett lens constant (LF) refers to the SRK/T A-constant of the IOL and is solely based on theoretical calculation by http://calc.apacrs.org/barrett_universal2105/. Therefore, precision might be limited, so that crosschecking the result with a second formula as well as early individual personalization of the LF is highly recommended. Please note, the Barrett design factor (DF) is not necessary for the calculation and please leave the DF field in the Lens Manager blank. The blank field is **not** equal to zero.
[5] Estimated A-constant of the manufacturer (packaging) is **not** recommended for IOL power calculation.
[6] For the calculation with the Kane formula, please refer to the SRK/T constant.

**Important notice:**

This information is supplied without liability. It is always recommended to use personalized IOL constants by the surgeons on the base of the surgeon´s own clinical experience, the surgical techniques, the used measuring devices, and postoperative results to achieve best prediction results.

If you have further question, please contact our application team (application@humanoptics.com).

Not all IOL models are registered in all countries. Please look at the current Portfolio, ask your local distributor or our customer service for availability with or without blue light filter option.

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**HumanOptics Holding AG** · Spardorfer Str. 150 · 91054 Erlangen · Germany · Tel. +49 (0) 9131 50 66 5 - 0 · Fax +49 (0) 9131 50 66 5 - 90 · mail@humanoptics.com · www.humanoptics.com

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