

## 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 <sup>5</sup>
	HAIGIS	HOFFER Q (PACD)	HOLLADAY (SURGEON FACTOR)	HOLLADAY 2 <sup>2</sup>	SRK/T KANE <sup>6</sup>	SRK II <sup>3</sup>	BARRETT LF/ DF <sup>4</sup>	OPTICAL (ACUSTICAL)
ASPIRA-aA/-aAY <sup>1</sup>	a <sub>0</sub> = -0.866 a <sub>1</sub> = 0.213 a <sub>2</sub> = 0.214 <small>Note: a<sub>0</sub> is negative</small>	5.374	sf=1.63	5.374	118.715	119.0	1.73/ --	118.4 (118.1)
ASPIRA-aXA/ -aXAY <sup>1</sup>	a <sub>0</sub> = -0.521 a <sub>1</sub> = 0.269 a <sub>2</sub> = 0.215 <small>Note: a<sub>0</sub> is negative</small>	5.924	sf=2.17	5.724	119.568	119.8	2.18/ --	118.3 (118.0)
MC X11 ASP	a <sub>0</sub> = 1.59 a <sub>1</sub> = 0.4 a <sub>2</sub> = 0.1	5.85	sf=2.08	5.78	119.4	119.8	2.09/ --	118.3 (118.0)
AS	a <sub>0</sub> = 0.885 a <sub>1</sub> = 0.312 a <sub>2</sub> = 0.125	5.36	sf=1.60	5.374	118.7	119.1	1.73/ --	118.4 (118.1)
ASPIRA <sup>®</sup> 3P-aVA	a <sub>0</sub> = 1.29 a <sub>1</sub> = 0.4 a <sub>2</sub> = 0.1	5.34	sf=1.73	5.315	119.1	119.1	1.94/ --	118.6 (118.3)
TORICA-aA/-aAY	a <sub>0</sub> = 1.18 a <sub>1</sub> = 0.4 a <sub>2</sub> = 0.1	5.35	sf=1.51	5.199	118.3	118.4	1.52/ --	118.4 (118.1)
DIFF-aA/-aAY	a <sub>0</sub> = 1.28 a <sub>1</sub> = 0.4 a <sub>2</sub> = 0.1	5.50	sf=1.73	5.490	118.9	119.2	1.83/ --	118.4 (118.1)
TORICADIFF-aA/-aAY	a <sub>0</sub> = 0.885 a <sub>1</sub> = 0.312 a <sub>2</sub> = 0.125	5.36	sf=1.60	5.374	118.7	119.1	1.73/ --	118.4 (118.1)
TRIVA-aAY <sup>1</sup>	a <sub>0</sub> = 1.426 a <sub>1</sub> = 0.4 a <sub>2</sub> = 0.1	5.63	sf=1.9	5.670	119.21	119.0	1.99/ --	118.4 (118.1)

References:

- Source: IOLCon.org <https://iolcon.org> (Version: 31.01.2022), please scan the QR-Code.  
All other listed constants are data from HumanOptics. All constants optimizations based primary on biometric values of **Caucasian** patients measured by the IOLMaster (Zeiss).
- The ACD-constant of the Holladay 2 formula refers to the optimized SRK/T constant. Further optimizations are not intended.
- The A-constant of the SRK II formula is not subject to any further adjustments.
- 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/](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.
- Estimated A-constant of the manufacturer (packaging) is **not** recommended for IOL power calculation.
- For the calculation with the Kane formula, please refer to the SRK/T constant.



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. The values specified above are only start values and guidance for the calculation of IOL power.

For Chinese market other constants are recommended for the model DIFF-aA/-aAY. Please refer to relating separate list of constants accordingly. Please contact for further assistance [application@humanoptics.com](mailto:application@humanoptics.com).