INTRODUCING THE HILL-RBF CALCULATOR
Improved accuracy & confidence with IOL power selection
A NEW APPROACH TO IOL POWER SELECTION
Available exclusively on the LENSTAR

Haag-Streit UK is delighted to introduce a new innovation in IOL calculation. The Hill-RBF Calculator is a purely data driven IOL calculation method incorporating artificial intelligence, pattern recognition and a boundary model, for improved accuracy and confidence.

The Hill-RBF Calculator is not a formula but a new method for IOL power selection. RBF stands for Radial Basis Function, which is similar to a neural network. It specialises in feature extraction and recognition and is able to take into consideration multiple factors as well as non-linear relationships.

Clinical trials have presented excellent results on all eye lengths and show that the Hill-RBF Calculator may even outperform the current, most advanced theoretical formulae. It produces highly-accurate IOL predictions with a very high probability and is available exclusively on the Haag-Streit LENSTAR biometer.

Want to find out more?
For further information, please contact Haag-Streit UK on (01279) 883842 or email lenstar@haag-streit-uk.com.
Excellent results on all eye lengths

The Hill-RBF Calculator works for all biconvex IOLs, from +6DS to +30DS and is designed for short, normal and long eyes. It is able to tell a user when a calculation is accurate and when care should be taken because of biometry parameters that do not allow accurate IOL prediction.

Improved accuracy

The Calculator finds the right pattern to lead to an accurate IOL prediction based on the following input parameters; Axial Length (AL), Anterior Chamber Depth (ACD) and Corneal Curvature (K). Combined with a boundary model, the Hill-RBF method only provides a result if the respective prediction is accurate with a very high-probability.

Dynamic learning process

Unlike the static theoretical formulae used for IOL calculation, the Hill-RBF Calculator is a totally new method. The Calculator boasts an adaptive, dynamic learning process where data is continuously updated. This means the higher the number of surgical outcomes entered, the better the overall depth of accuracy becomes.

Exclusive to LENSTAR

The Hill-RBF Calculator is exclusively licenced on the LENSTAR and is available on the current version of EyeSuite. All LENSTAR Pro users will have access to it and LENSTAR Essential users can upgrade to Pro at any time.