

IOLMaster - Calibration

Test block (AL, K, ACD) - - - - CORRECT, PRINTED & FILED

Axial Length

Correct setting (phakic, acrylic, silicone oil, etc.) - - CONFIRM
Patient able to see red fixation light - - - - - CONFIRM
Double peaks (anterior peak is likely the ILM) - - - - - DELETED
Poorly formed primary maxima - - - - - DELETED
Significant outliers (look at primary maxima) - - - - - DELETED
At least 5 measurements within 0.05 mm - - CONFIRM
Composite SNR > 10 (typically > 100) - - - - - CONFIRM
OD & OS AL within 0.30 mm - - - - - CONFIRM
AL consistent with oldest Rx - - - - - CONFIRM

Autokeratometry

Ocular surface (postpone measurements?) - - - - - NORMAL
K₁ & K₂ within 0.25 D in each meridian - - - - CONFIRM
Astigmatism lines up with Rx cyl & axis - - - - CONFIRM
Astigmatism for each eye < 3.50 D - - - - - CONFIRM
Avg K power for both eyes within 0.90 D - - CONFIRM
Avg K power < 47.00 D or > 41.00 D - - - - - CONFIRM
No "x" appearing in any LED location - - - - CONFIRM
Soft contact lenses - - - - - OUT 1 WEEK MINIMUM
RGP contact lenses - - - OUT UNTIL TOPO & Rx STABLE

Optical ACD measurement

Aphake & pseudophake - - - - - DO NOT MEASURE
5 consistent measurements (green light) - - - - CONFIRM
ACD < 4.5 mm and > 2.0 mm - - - - - CONFIRM

White to White

3 measurements within 0.2 mm - - - - - CONFIRM
OD & OS within 0.2 mm (check arc position) - - CONFIRM

Exceptions & Additional Studies

AL < 22.0 mm (ACD & LT for H2) - - - - IMMERSION A-SCAN
AL > 30.0 mm (is there reduced BCVA?) - - - STAPHYLOMA?
OD / OS AL difference > 0.30 mm - - - MD CONFIRMS
Astigmatism > 3.50 D (KCN, PMD?) - - - TOPO AXIAL MAP
Avg Ks > 0.90 difference - - - - - MD CONFIRMS
Avg K power > 47.00 D or < 41.00 D - - MD CONFIRMS
ACD < 2.0 mm or > 4.5 mm - - - - - MD CONFIRMS
White-to-White < 10.2 or > 13.0 mm - - MD CONFIRMS