

IOLMaster - Calibration

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

Axial Length

Correct setting (phakic, acrylic, silicone oil, etc.) - - CONFIRM
Patient sees red fixation light - - - - - CONFIRM
Double peaks (anterior peak is likely ILM) - - - - - DELETED
Poorly formed primary maxima - - - - - DELETED
Significant outliers - - - - - DELETED
At least 5 measurements within 0.05 mm - - CONFIRM
Composite SNR > 10 (typically will be > 100) - - - CONFIRM
OD & OS AL within 0.33 mm - - - - - CONFIRM
AL consistent with oldest Rx - - - - - CONFIRM

Autokeratometry

Ocular surface (may require artificial tears) - - - - - NORMAL
K₁ & K₂ within 0.25 D in each meridian - - - - CONFIRM
Astigmatism lines up with Rx cyl & axis - - - - CONFIRM
Astigmatism for each eye < 2.50 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

Optical ACD measurement

Aphake & pseudophake - - - - - DO NOT MEASURE
5 consistent measurements - - - - - CONFIRM
ACD < 4.2 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 (peripapillary staphyloma?) - - - - A/B-SCAN
OD / OS AL difference > 0.33 mm - - - MD CONFIRMS
Astigmatism > 3.50 D (KCN or PMD?) - - - - - AXIAL MAP
Avg Ks > 0.90 difference - - - - - MD CONFIRMS
Avg K power > 47.00 D or < 41.00 D - - MD CONFIRMS
ACD < 2.2 mm or > 4.2 mm - - - - IMMERSION A-SCAN
White-to-White < 10.2 or > 12.9 mm - - MD CONFIRMS

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