

BINOCULAR VISION – TESTS AND EXPECTED FINDINGS

Category	Case Finding / Test	Method / Instruments	Expected findings
General	Visual Acuity	Optotype Chart	>1.0, 6/6, 20/20
General	Sensory Status	Worth 4-dot	Fusion
General	Stereopsis	Lang II, Titmus Fly, Random Dot, TNO	<20 Arc Seconds
General	Distance Lateral Phoria	Cover/Uncover + Prism Bar or Modified Thorington Technique	0.5 Exo
General	Near Lateral Phoria	Cover/Uncover + Prism Bar	6 Exo
General	Hirschberg Test	Light Reflex Test - Light Source	<0.5 mm Decentration = Ortho
General	Krimsky Test	Prism Neutralization of Light Reflex	Light Reflex Aligned Centrally
General	Saccades	King-Devick, NSUCO, DEM Test	Accurate, Fast, No Overshoots Or Head Movement
General	Pursuits	NSUCO	Smooth Accurate Tracking
General	Fixation Disparity	Wesson Card, Mallett Unit	Ortho Or Minimal Fixation Disparity
General	Suppression Check	Red Lens Test, Worth Dot, Bagolini Test	No Suppression
Vergence	Base-Out (Distance) (PFV)	Prism Bar And A Vertical Target	Blur/Break/Recovery: 7/19/10
Vergence	Base-In (Distance) (NPF)	Prism Bar And A Vertical Target	Break/Recovery: 9/5
Vergence	Base-Out (Near) (PFV)	Prism Bar And A Vertical Target	Blur/Break/Recovery: 15/21/15
Vergence	Base-In (Near) (NPF)	Prism Bar And A Vertical Target	Blur/Break/Recovery: 14/22/18
Vergence	Near Point Of Convergence (NPC)	Royal Air Force (RAF) Ruler or A Small Target On Pen	Break/Recovery: 5 cm / 7 cm
Vergence	Vergence Facility Testing (VF)	12 Bi / 3 BO Prisms	15 cpm
Accommodation	Negative Relative Accommodation (NRA)	Phoropther or Royal Air Force (RAF) Ruler	+1.75 to + 2.00
Accommodation	Positive Relative Accommodation (pra)	Phoropther Or Royal Air Force (RAF) Ruler	-1.25 to - 2.50
Accommodation	Amplitude Of Accommodation (Push-Up)	Push-Up Method	18 - 1/3 Age
Accommodation	Gradient AC/A Ratio	Calculated Or Howell Near Phoria Card	4:1
Accommodation	Monocular Accommodative Facility (AF)	±2.00 DS Flippers	11 cpm
Accommodation	Binocular Accommodative Facility (AF)	±2.00 DS Flippers	10 cpm
Accommodation	Monocular Estimation Method Retinoscopy (MEM)	Retinoscope + Smart Optometry App - MEM Test	0.50 D