

# **Eye Tracking Analysis Report**

**Session: Session\_20250610\_184616**

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# Condition Summary

## Primary Findings:

- Eye Movement Asymmetry (medium confidence)  
Significant differences detected between left and right eye movement patterns.

## Recommendations:

- [MEDIUM] Further evaluation recommended to determine cause of eye movement asymmetry

# Detailed Analysis

Metric	Left Eye	Right Eye	Threshold	Interpretation
Movement Velocity (mm/s)	6.8	5.6	>15 normal	Low velocity may indicate fatigue
Movement Frequency (Hz)	10.9	8.7	0.5-2.5 normal	High frequency may indicate nystagmus
Position Variance	0.000	0.000	<0.01 stable	High variance indicates tremor or instability

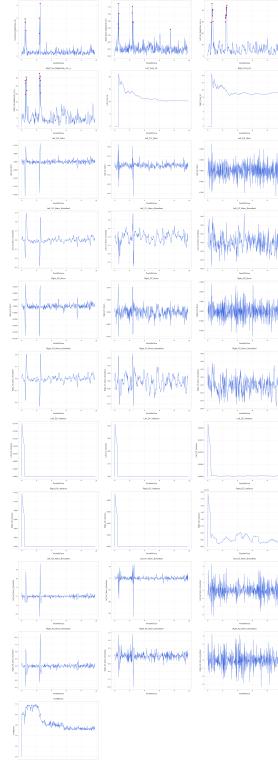
## Condition Flags Detected:

- Asymmetry

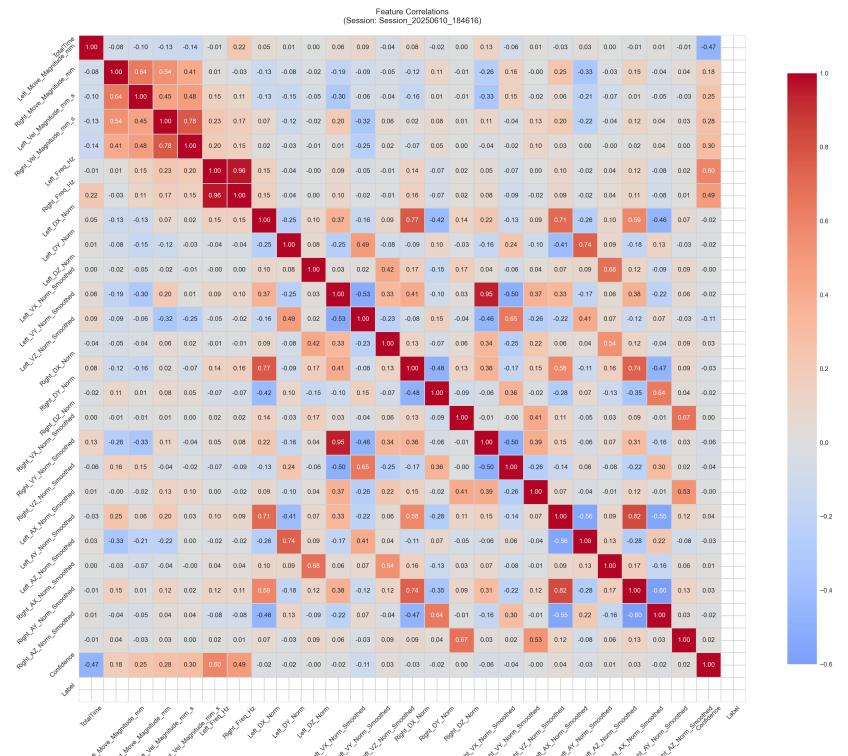
## Statistical Summary

	mean	std	min	50%	max	IQR	Outlier_Count
Index	217.0	125.14	1.0	217.0	431.0	216.0	0.0
TotalTime	5.1	2.97	0.07	5.1	10.12	5.21	0.0
TimeWithFace	4.81	2.96	0.0	4.81	9.82	5.21	0.0
Left_Move_Magnitude_mm	0.32	0.37	0.0	Enhanced Statistics	0.25	4.16	0.19
Right_Move_Magnitude_mm	0.27	0.22	0.0	0.23	1.88	0.18	7.0
Left_Vel_Magnitude_mm_s	6.76	6.9	0.0	5.13	46.03	5.0	16.0
Right_Vel_Magnitude_mm_s	5.57	4.67	0.0	4.51	32.75	3.69	12.0
Left_Freq_Hz	10.88	3.72	0.0	10.76	21.35	1.95	0.0
Right_Freq_Hz	8.73	2.68	0.0	9.05	14.56	0.49	0.0
Left_DX_Norm	-0.0	0.0	-0.02	0.0	0.01	0.0	0.0
Left_DY_Norm	-0.0	0.0	-0.03	0.0	0.02	0.0	0.0
Left_DZ_Norm	-0.0	0.0	-0.0	0.0	0.01	0.0	0.0
Left_VX_Norm_Smoothed	-0.0	0.05	-0.29	-0.0	0.29	0.02	0.0
Left_VY_Norm_Smoothed	-0.0	0.07	-0.35	0.0	0.28	0.07	0.0
Left_VZ_Norm_Smoothed	0.0	0.02	-0.05	-0.0	0.07	0.02	0.0
Right_DX_Norm	-0.0	0.0	-0.01	-0.0	0.01	0.0	0.0
Right_DY_Norm	-0.0	0.0	-0.01	-0.0	0.01	0.0	0.0
Right_DZ_Norm	-0.0	0.0	-0.01	0.0	0.01	0.0	0.0
Right_VX_Norm_Smoothed	-0.0	0.04	-0.23	-0.0	0.21	0.03	0.0
Right_VY_Norm_Smoothed	-0.0	0.05	-0.17	-0.0	0.18	0.05	0.0
Right_VZ_Norm_Smoothed	-0.0	0.02	-0.05	-0.0	0.08	0.02	0.0
Left_DX_Variance	0.0	0.0	0.0	0.0	0.02	0.0	0.0
Left_DY_Variance	0.0	0.01	0.0	0.0	0.04	0.0	0.0
Left_DZ_Variance	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Right_DX_Variance	0.0	0.0	0.0	0.0	0.01	0.0	0.0
Right_DY_Variance	0.0	0.0	0.0	0.0	0.01	0.0	0.0
Right_DZ_Variance	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Left_AX_Norm_Smoothed	0.02	1.48	-11.37	0.0	18.25	0.65	0.0
Left_AY_Norm_Smoothed	-0.02	2.48	-32.77	0.0	12.32	1.25	0.0
Left_AZ_Norm_Smoothed	0.02	0.86	-3.22	0.0	3.3	0.94	0.0
Right_AX_Norm_Smoothed	0.01	1.07	-7.2	0.0	11.2	0.53	0.0
Right_AY_Norm_Smoothed	-0.01	1.26	-9.88	0.0	7.09	1.03	0.0
Right_AZ_Norm_Smoothed	-0.0	0.99	-3.28	0.0	3.27	1.07	0.0
Confidence	0.64	0.2	0.0	0.58	1.0	0.24	0.0
Label	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## Feature Trends



## Feature Correlations



# Movement Analysis

