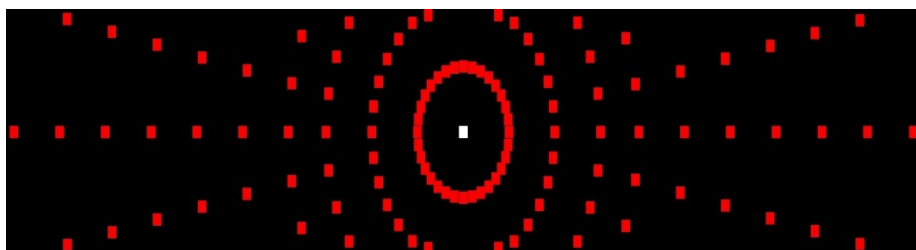
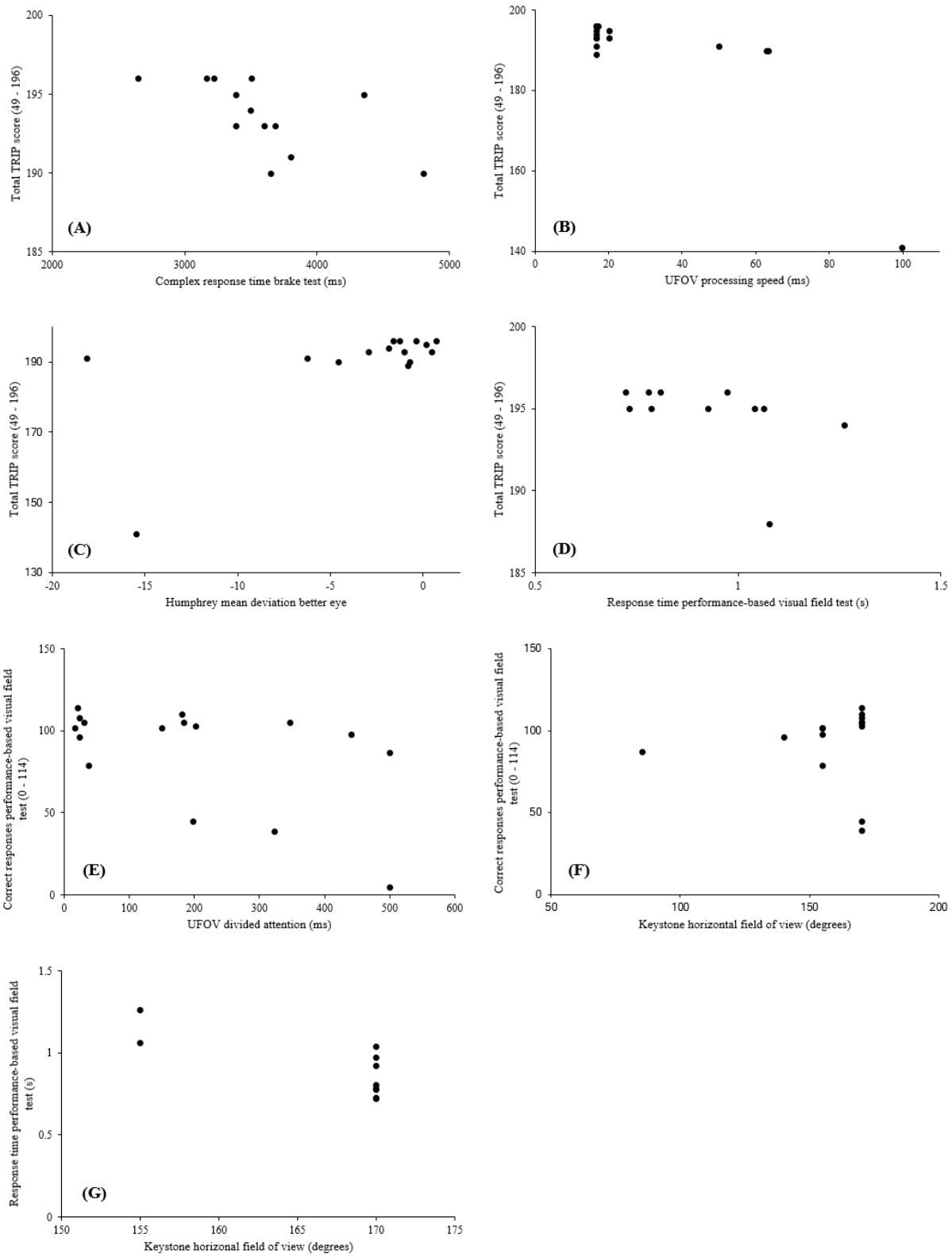




Supplementary Figure 1. Setup of the M100 WS STISIM Drive® desktop driving simulator



Supplementary Figure 2. Central focus square (white) with all visual field targets (red) superimposed



Supplementary Figure 3. Scatterplots of the correlation analyses between significant variables

Supplementary Table 1. Comparison of the demographic, driving characteristics, and cognitive data between glaucoma (n = 17) and control (n = 11) groups

Variable	Glaucoma	Controls	P-Value
Age, y	65.24 (9.69)	61.27 (11.45)	0.33 ^a
Sex, m (%)	9 (53%)	2 (18%)	0.07 ^b
Education, y	13 (12 - 16)	13 (11 - 16)	0.81 ^c
Driving experience, y	45.71 (12.11)	44.73 (11.81)	0.83 ^c
Annual mileage, 10 ³ miles	12 (5 - 15)	12 (4 - 18)	1.00 ^c
Traffic violations, n	0 (0 - 0)	0 (0 - 0)	0.67 ^c
MVC, n	0 (0 - 0)	0 (0 - 0)	0.33 ^c
MoCA, /30	26.41 (3.24)	27.73 (1.35)	0.49 ^a
TMT A, s	36 (29 - 47)	30 (28 - 41)	0.27 ^c
TMT B, s	115 (77 - 171)	79 (53 - 97)	0.10 ^c
Directions, /32	27 (25 - 29)	32 (32 - 32)	0.08 ^c
Compass, /32	15.65 (7.32)	23.82 (8.18)	0.01 ^a
Dot cancellation time, s	523.53 (161.62)	420.20 (128.76)	0.10 ^a
Dot cancellation errors, n	5 (3 - 8)	3 (2 - 5)	0.26 ^c
RSR, /12	7.00 (11.76)	8.73 (2.49)	0.11 ^a

Values are expressed as mean (standard deviation); median (Q1 – Q3); or frequencies (%). Abbreviations: MVC, motor vehicle crashes; MoCA, Montreal Cognitive Assessment; RSR, road sign recognition; TMT, trail making test. ^aindependent t-test;

^bFisher's Exact test; ^cWilcoxon rank sum test.

Supplementary Table 2. Comparison of performance on the visual battery between glaucoma (n = 17) and control (n = 11) groups

Variable	Glaucoma group	Controls	P-Value
Worse eye, MD	-5.74 (-2.03 – -10.57)	-1.20 (-0.45 – -2.80)	0.007
Worse eye, PSD	3.34 (2.46 – 9.33)	1.21 (1.49 – 3.82)	0.05
Better eye, MD	-1.28 (-0.40 – -4.60)	-0.71 (-0.10 – -2.39)	0.23
Better eye, PSD	1.69 (1.55 – 2.29)	1.49 (1.29 – 2.09)	0.26
Horizontal FOV, degrees	170 (155 – 170)	170 (155 – 170)	0.40
Vertical FOV, pass	17 (100)	10 (100)	1.00
RA, 1-5	2.00 (1.00 - 4.00)	1.50 (1.00 - 2.00)	0.09
Processing speed, ms	16.70 (16.70 - 20.00)	16.70 (16.70 - 16.70)	0.34
Divided attention, ms	183.20 (30.10 - 347.00)	80.00 (16.70 – 140.15)	0.10
Selective attention, ms	500.00 (200.00 - 500.00)	219.95 (123.50 - 273.30)	0.04

Values are expressed as median (Q1 – Q3), except for vertical FOV which is expressed as frequency (%).

Abbreviations: FOV, field of view; MD, mean deviation; ms, milliseconds; PSD, pattern standard deviation; RA, risk assessment; UFOV®, Useful Field Of View test.