

# Neuroimaging Parameters

Siemens	Matrix	Slices	FOV	% FOV phase	Resolution (mm)	TR (ms)	TE (ms)	TI (ms)	Flip Angle (deg)	Parallel Imaging	MultiBand Acceleration	Phase partial Fourier	Diffusion Directions	b-values	Acquisition Time
T1	256 x 256	176	256 x 256	100%	1.0 x 1.0 x 1.0	2500	2.88	1060	8	2x	Off	Off	N/A	N/A	7:12
T2	256 x 256	176	256 x 256	100%	1.0 x 1.0 x 1.0	3200	565	N/A	Variable	2x	Off	Off	N/A	N/A	6:35
Diffusion fMRI	140 x 140	81	240 x 240	100%	1.7 x 1.7 x 1.7	4100	88	N/A	90	Off	3	6/8	96	500 (6-dirs) 1000 (15-dirs) 2000 (15-dirs) 3000 (60-dirs)	7:31
	90 x 90	60	216 x 216	100%	2.4 x 2.4 x 2.4	800	30	N/A	52	Off	6	Off	N/A	N/A	
Philips	Matrix	Slices	FOV	% FOV phase	Resolution (mm)	TR (ms)	TE (ms)	TI (ms)	Flip Angle (deg)	Parallel Imaging	MultiBand Acceleration	Half Scan Factor	Diffusion Directions	b-values	Acquisition Time
T1	256 x 256	225	256 x 240	93.75%	1.0 x 1.0 x 1.0	6.31	2.9	1060	8	1.5 x 2.2	Off	N/A	N/A	N/A	5:38
T2	256 x 256	256	256 x 256	100%	1.0 x 1.0 x 1.0	2500	251.6	N/A	90	1.5 x 2.0	Off	N/A	N/A	N/A	2:53
Diffusion fMRI	140 x 140	81	240 x 240	100%	1.7 x 1.7 x 1.7	5300	89	N/A	78	Off	3	0.6	96	500 (6-dirs) 1000 (15-dirs) 2000 (15-dirs) 3000 (60-dirs)	9:14
	90 x 90	60	216 x 216	100%	2.4 x 2.4 x 2.4	800	30	N/A	52	Off	6	0.9	N/A	N/A	
GE	Matrix	Slices	FOV	% FOV phase	Resolution (mm)	TR (ms)	TE (ms)	TI (ms)	Flip Angle (deg)	Parallel Imaging	MultiBand Acceleration	Phase partial Fourier	Diffusion Directions	b-values	Acquisition Time
T1	256 x 256	208	256 x 256	100%	1.0 x 1.0 x 1.0	2500	2	1060	8	2x	Off	Off	N/A	N/A	6:09
T2	256 x 256	208	256 x 256	100%	1.0 x 1.0 x 1.0	3200	60	N/A	Variable	2x	Off	Off	N/A	N/A	5:50
Diffusion fMRI	140 x 140	81	240 x 240	100%	1.7 x 1.7 x 1.7	4100	81.9	N/A	77	Off	3	5.5/8	96	500 (6-dirs) 1000 (15-dirs) 2000 (15-dirs) 3000 (60-dirs)	7:30
	90 x 90	60	216 x 216	100%	2.4 x 2.4 x 2.4	800	30	N/A	52	Off	6	Off	N/A	N/A	



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