

Siemens Systems - Protocol Parameters

Siemens Parameters	T1		DTI		fMRI		FLAIR (TFLR)		T2		SWI	
Protocol	CENTER-TBI		CENTER-TBI		CENTER-TBI		CENTER-TBI		CENTER-TBI		CENTER-TBI	
Sequence Name	MPRAGE	MPRAGE	DTI	DTI	BOLD	BOLD	3D FLAIR	3D FLAIR	3D T2	3D T2	SWI	SWI
Sequence Type												
Vendor Acronym	TFL	TFL	EP2D_DIFF	epse	EP2D_PACE	EPFID	TSE_VFL	SPCIR	TSE_VFL	SPC	GRE	SWI_R
Orientation	Sagittal	Sagittal	Transverse	Transverse	Transverse	Transverse	Sagittal	Sagittal	Sagittal	Sagittal	Transverse	Transverse
Scanner	Trio	Skyra	Trio	Skyra	Trio	Skyra	Trio	Skyra	Trio	Skyra	Trio	Skyra
Software Version	VB17	D13C	VB17	D13C	VB17	D13C	VB17	D13C	VB17	D13C	VB17	D13C
FOV	256	256	256	256	192	192	256	256	256	256	256	256
Matrix	256x256	256x256	128x128	128x128	64x64	64x64	256x256	256x256	256x256	256x256	512x256	512x256
FOV Phase												
Base Resolution												
Phase Resolution												
Pixel Size - Freq	1	1	2	2	3	3	1	1	1	1	1	1
Pixel Size - Phase	1	1	2	2	3	3	1	1	1	1	0,5	0,5
Slice Thickness	1	1	2	2	3	3	1	1	1	1	2	2
Slice Gap/ Dist. Factor	0%	0%	0	0	20%	20%	0	0	0	0	20%	20%
Slices	192	192	75	75	41	41	192	192	192	192	72	72
Phase Direction	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	RL	RL
Slice oversampling											22,20%	22,20%
TR	2300	2300	9800	11600	2500	2480	6000	6000	3000	3200	29	29
TE	2,98	2,98	91	91	28	28	394	263	222	221	20	20
Flip angle	9	9	90	90	70	70	90	90	90	90	15	15
TI	900	900					2100	2100				
Turbo or EPI Factor							141	133	141	133		
Slice partial Fourier												
Bandwidth [Hz/pix]	240	240	1698	1698	2232	2232	781	781	751	751	120	120
Averages												
GRAPPA factor												
Fat Suppr.	None	None	Fat sat.	Fat sat.	Fat sat.	Fat sat.	None	None	None	None	None	None
Flow comp												
Acc Fact			2	2	1	1	2/2	2/2	2	2	2	2
Echo Spacing	7,1	7,1	0,72	0,78	0,51	0,51	3,3		3,46	3,46		
b-value			1000	1000								
B1 Corrections	On	On	On	On	On	On	On	On	On	On	Off	Off
# Diffusion directions			64 (2x32)	64 (2x32)								
Measurements												
# Dynamics					164	167						
Partial Fourier			7/8	7/8	6/8	6/8						
Scan Time (min)	5:21	5:21	11:10	13:12	6:55	6:59	6:38	9:44	5:26	5:12	4:35	4:35