

Philips Systems - Protocol Parameters

Philips Parameters	T1		DTI		fMRI		FLAIR (TFLR)		T2		SWI	
Protocol	CENTER-TBI		CENTER-TBI		CENTER-TBI		CENTER-TBI		CENTER-TBI		CENTER-TBI	
Sequence Name												
Sequence Type												
Orientation	Sagittal	Sagittal	Transverse	Transverse	Transverse	Transverse	Sagittal	Sagittal	Sagittal	Sagittal	Transverse	Transverse
Scanner	Achieva 3T maxgrad	Achieva 3T default grad	Achieva 3T maxgrad	Achieva 3T default grad	Achieva 3T maxgrad	Achieva 3T default grad	Achieva 3T maxgrad	Achieva 3T default grad	Achieva 3T maxgrad	Achieva 3T default grad	Achieva 3T maxgrad	Achieva 3T default grad
Software Version	5.1.7	5.1.7	5.1.7	5.1.7	5.1.7	5.1.7	5.1.7	5.1.7	5.1.7	5.1.7	5.1.7	5.1.7
FOV	256X256	256X256	256	256	192x192	192x192	256X256	256X256	256X256	256X256	256x192	256x192
FOV FH (mm)												
FOV AP (mm)												
FOV RL (mm)												
Matrix scan	256X256	256X256	128X128	128X128	64x64	64x64	512x512	512x512	256x256	256x256	384x256	384x256
Pixel Size - Freq	1	1	2	2	3	3	0,5	0,5	1	1	0,5	0,5
Pixel Size - Phase	1	1	2	2	3	3	0,5	0,5	1	1	0,5	0,5
Slice Thickness	1	1	2	2	3	3	1	1	1	1	2	2
Slice Gap	0	0	0	0	20%	20%	0	0	0	0	20%	20%
# Slices	192	192	75	75	45	45	192	192	192	192	72	72
Slice Oversampling											22,20%	22,20%
Fold- over direction/ phase encoding	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	RL	RL
TR	6,7	6,7	10062	10783	2500	2500	4800	4800	2500	2500	29	30
TE	3	3	97	103	28	28	291	381	260	303	7.2/6.2*	7.2/6.2*
flip angle	9	9	90	90	70	70			90	90	17	17
TI	900						1650	900		1650		
TSE/Turbo/EPI Factor	135	135					182	182	141	141		
Shot Interval												
Halfscan												
Bandwidth	122 Hz/pix	122 Hz/pix	2145 Hz/pix	1692 Hz/pix	3623 Hz/pix	2664 Hz/pix	659 Hz/pix	394 Hz/pix	541 Hz/pix	394 Hz/pix	129 Hz/pix	199 Hz/pix
Water-fat shift (pixels)												
NSA												
SENSE factor												
Fat suppression			SPiR	SPiR	SPiR	SPiR	SPiR	SPiR			None	None
Flow compensation												
Acc Fact	2	2	2	2	1,1	1,1	2.7/2	2.7/2	2/2	2/2	2	2
Max b-factor / b-value			1000	1000								
B1 corrections	Off	Off									On	On
# Diffusion directions			2x32	2x32								
# Dynamic Scans					164	164						
Partial Fourier					6/8	6/8						
Scan Time (min)	5:39	5:39	13:56	14:48	6:58	6:58	6:10	6:10	5:42	5:42	6:47	6:56
Scan %	100	100	100	100	100	100	78,5	78,5	100	100	157	157

\*TE1/delta TE      \*TE1/delta TE