

GE Scanners Setup

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1.5 T Recommended settings

Vendor: GE
 Sequence: IRSPGR
 TR: auto (~8.5 ms)
 TE: 'Min Full' (~3.75 ms)
 TI (Prep Time): 500 ms
 Flip Angle: 10 deg
 Bandwidth: 15.63 kHz

Notes

Example setup screens:

The screenshot displays the GE scanner setup interface with the following sections:

- Patient Information:** Accession Number, Patient ID (promo tests), Patient Name (promo tests).
- Patient Position:** Patient Position (Supine), Patient Entry (Head First), Coil (8HRBRAIN), Series Description (IR-FSPGR TI-500 FA-10).
- Imaging Parameters:** Plane (Sagittal), Mode (3D), Pulse Seq (SPGR), Grad Mode (Zoom), Imaging Options (EDR, Fast, IrP), Psd Name (efgre3d_cs), Protocol (research Morphome/ HIS/RI/S).
- Autoview:** A preview window showing a sagittal brain scan with technical details: Ex: 487, Set: 1, Im: 16, Cor: A20_0, LOC/30, TR: 3, TE: 11.6/Pr, EC: 1.4, 33.3kHz, FOV: 30x20x4, W: 372, L: 186.
- Scan Timing:** # of Echoes (1), TE (Min Full, 3.8-13.0), TE2 (20.0-2000.0), TR (8.5-8.5), Prep Time (500, 24-2500), Flip Angle (10, 1-25), Bandwidth (15.63, 2.0-250.0).
- Additional Parameters:** Graphic Rx, PURE, User CVs Screen.
- Acquisition Timing:** Freq (192), Phase (192), NEX (1.00), Phase FOV (1.00), Acqs Before Pause.
- Scanning Range:** FOV (24.0, 2-35), Slice Thickness (1.2), Overlap Lines, Locs per Slab (170), Start (L98.4), End (R99.6), # of Slabs (1), Actual End (R99.6), Table Delta (0.00).
- Summary:** Rx Scan Time: 7:51, Max # of Slices: 256, Rel. SHR(%): 100, Est. SAR: 0.1232, Peak SAR: 0.2464, dBit: First Level SAR: First Level.

User Control Variables			Minimum	Maximum
CV 4	Image acq. delay (sec)	0.00	0	100
CV 6	Turbo Mode (0=off, 1=Fastest, 2=Fastest)	2.00	0	2
CV 23	Slice Resolution (70%-100%)	100.00	70	100

Recommended settings

Vendor: GE
Sequence: IRSPGR
TR: auto (~6.54 ms)
TE: 'Min Full' (~2.82 ms)
TI (Prep Time): 600 ms
Flip Angle: 8 deg
Bandwidth: 31.25 kHz

Notes

Example setup screens:

The screenshot displays the MRI scanner's setup interface, organized into several panels:

- Patient Information:** Includes fields for Accession Number, Patient ID, and Patient Name, along with a patient icon and a 'Full Info' button.
- Patient Position:** Shows 'Supine' for Patient Position and 'Head First' for Patient Entry. The Coil is set to '8HRBRAIN' and the Series Description is 'IR-FSPGR'.
- Imaging Parameters:** The Plane is 'Sagittal', Mode is '3D', Pulse Seq is 'SPGR', and Imaging Options are 'EDR, Fast, IrP'. The Psd Name is 'efgre3d_cs'.
- Autoview:** Displays a sagittal brain scan image with technical details: 'LQC:30v', 'TR:15.3', 'TE:11.6/Fr', 'EC:11/1 31.3kHz', and 'FOV:30x30x11'. It also shows 'W = 392 L = 186' and 'prono tests'.
- Scan Timing:** A table of parameters with Min. and Max. values:

Parameter	Value	Min.	Max.
# of Echoes	1	1.0	1.0
TE	Min Full	3.8	13.0
TE2		20.0	2000.0
TR		8.5	8.5
Prep Time	600	24	2500
TI2		50	4000
Flip Angle	8	1	25
Echo Train Length			
Bandwidth	31.25	2.0	250.0
Bandwidth2		2.0	250.0
- Additional Parameters:** Includes 'Graphic Rx', 'PURE', and 'User CVs Screen' options.
- Acquisition Timing:** Shows 'Freq' 256, 'Phase' 256, 'NEX' 1.00, and 'Phase FOV' 1.00. It also includes 'Flow Comp Direction', 'Shim Auto', and 'Agent' fields.
- Scanning Range:** A table of FOV and slice parameters:

Parameter	Value	Min.	Max.	R / L	P/A Center	I/S Center
FOV	24.0	2	35	Start: L98.4	A31.7	0.0
Slice Thickness	1.2			End: R99.6		
Overlap Locs				# of Slabs: 1		
Locs per Slab	170			Actual End: R99.6		
				Table Delta: 0.00		

At the bottom, summary statistics are shown: Rx Scan Time: 7:51, Max # of Slices: 256, Rel. SNR(%): 100, Est. SAR: 0.1232, Peak SAR: 0.2464, dB/dt: First Level SAR: First Level. Buttons for 'Save Series' and 'Reset Values' are also present.

Attachments

- [irspgr_ti500_flip10_usercvs_pp.png](#) (6.0 kB) - added by magda on 12/07/07 10:07:09.
- [irspgr_ti500_flip10_pp.png](#) (143.1 kB) - added by magda on 12/07/07 10:07:26.
- [irspgr_ti600_flip8_pp.png](#) (124.9 kB) - added by magda on 12/07/07 10:33:53.