

GE Scanners Setup

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 (prono tests), Patient Name (prono 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, Protocol (research Morphome/ HIS/RI/S).
- Autoview:** 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, 34.3kHz, 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), Echo Train Length, Bandwidth (15.63, 2.0-250.0), Bandwidth2 (2.0-250.0).
- Additional Parameters:** Graphic Rx, PURE, User CVs Screen.
- Acquisition Timing:** Freq (192), Freq DIR (S/I), Phase (192), NEX (1.00), Shim (Auto), Phase FOV (1.00), Acqs Before Pause, Agent.
- Scanning Range:** FOV (24.0, Min: 2, Max: 35), Slice Thickness (1.2), Overlap Lines, Locs per Slab (170), R/L (Start: L98.4, End: R99.6), P/A Center (A31.7), I/S Center (0.0), # of Slabs (1), Actual End (R99.6), Table Delta (0.00).
- Summary:** Rx Scan Time: 7:51, Max # of Slices: 256, Rel. SNR(%): 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= Faster, 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 a comprehensive MRI scanner setup interface with the following sections:

- 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:** Includes 'Plane: Sagittal', 'Mode: 3D', 'Pulse Seq: SPGR', 'Grad Mode: Zoom', and 'Imaging Options: EDR, Fast, IrP'.
- Autoview:** Displays a real-time scan image with technical details: 'Ent: 487', 'Set: 1', 'Inst: 15', 'Cor: A29.0', 'LOC: 30x30x1', 'TR: 15.3', 'TE: 11.6/Pr', 'EC: 11.1 31.3kHz', 'FOV: 30x30x1', 'W = 392 L = 186'. It also has 'Autoview' and 'ReportCursor' checkboxes.
- Scan Timing:** A table of timing 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
TU2		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:** Includes 'Freq: 256', 'Phase: 256', 'NEX: 1.00', 'Phase FOV: 1.00', and 'Shim: Auto'.
- Scanning Range:** Includes 'FOV: 24.0', 'Slice Thickness: 1.2', 'Overlap: 0', 'Locs per Slab: 170', 'Start: L98.4', 'End: R99.6', and '# of Slabs: 1'.
- Summary:** Shows 'Rx Scan Time: 7:51', 'Max # of Slices: 256', 'Rel. SNR(%): 100', 'Est. SAR: 0.1232', and 'Peak SAR: 0.2464'.