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MRI specifications for custom neurostimulator

Table of specifications

Image modality	Sequence	Minimum resolution	Specification
MRI	**T1w**	1 mm^3	3D isotropic
MRI	**T2w**	1 mm^3	3D isotropic

Important considerations for all sequences:

- Field-of-view must cover the entire head including cranial skin and skull to minimum C3/C4
- Minimize/eliminate skin deformation due to head constraints & coils
    - *Recommendation:* Use earplugs instead of headphones
- Minimize/eliminate motion artefacts.

If specifications are not met, the 3D modelling software pipeline may not produce acceptable results and the imaging must be repeated.

Manufacturer-specific notes

Manufacturer	Notes
Siemens	DICOM format: • Save as standard mosaic format for DWI. • If available, save as Enhanced DICOM (available on latest models of machine)