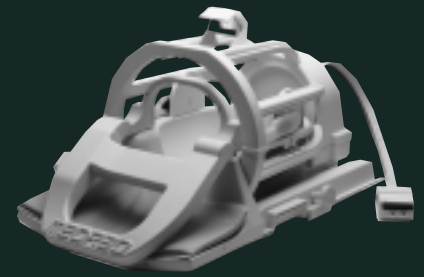


Medrad Quadrature Neurovascular Array

Technical Tips



Please be aware that the frequency direction for the axial images and 3D Time of Flight of the Circle of Willis will become automatically swapped when loading sequence parameters. The recommended frequency direction is A/P. The frequency direction for axial EPI imaging remains R/L.

Configuration File Options:

NVPA (Neurovascular)



- Quadrature/Phased Array Mode
- Configuration File will turn on entire array
- May be used for all type of Brain and Neck Imaging, *excluding Echo Planar Imaging (EPI)*
- FOV 46cm (maximum)

Recommended uses:

- Brain and/or Cervical Spine Localizers
- Imaging of the Cervical Spine
- Imaging of the Carotid Arteries
- Imaging of the Aortic Arch

FASTBRN (Fast Brain)



- Quadrature Mode
- Configuration File will turn on only the Head coil section of the array
- *May be used for Echo Planar Imaging (EPI)*
- May be used for vascular studies of the brain to reduce Recon time
- FOV 24cm (maximum)

Recommended uses:

- EPI sequences
- Imaging of the Brain
- Imaging of Circle of Willis

HRBRN (High Resolution Brain Array)



- Quadrature/Phased Array Mode
- Configuration File will turn on only the Head coil section of the array
- Use configuration when imaging the brain for high resolution
- Compatible with all imaging sequences, *excluding EPI*
- FOV 24cm (maximum)

Recommended uses:

- High Resolution Brain imaging
- High Resolution Circle of Willis imaging

Issues

Solutions

TR Driver Faults

Please confirm that the Head Coil section of the Quad NVA is fully engaged in the most inferior position. The black engagement lines should be fully aligned. The engagement lines ***do not*** represent the center of the coil. Please use anatomical locations for positioning purposes.

Please confirm that the connector box is fully seated in the phased array port. Warming of the connector box will be experienced during normal operation of the Quad NVA. This warming is normal and expected given the active electronic components inside the connector box.

Phase Wrap

The technologist ***must swap the phase and frequency*** for axial brain imaging and 3D MRA imaging of the Circle of Willis. The recommended frequency is A/P.

NOTE: The recommended frequency for axial perfusion and diffusion remains R/L.
The recommended frequency for sagittal Cervical Spine imaging is S/I.

Unable to Download an EPI Sequence

Please confirm that the FASTBRN configuration file has been selected.

Please confirm that the correct configuration file has been loaded for the system.

NOTE: There are two versions of the FASTBRN configuration file depending on the system's Fast Receiver status.

Long Reconstruction Times

The FASTBRN configuration file will provide the fastest reconstruction time. The FASTBRN file is recommended for MRA for the Circle of Willis.

Additional Note

Select the following configuration files when scanning with the Medrad Quadrature Neurovascular Array:
1. NVPA 2. FASTBRN 3. HRBRN

Questions???? Please Call 1-800-MRCOILS

Control No.: 200043

BA-01-24-00



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