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MEDRAD 8-Channel Neurovascular Array

For GE Signa® 1.5T Excite™
8-Channel Phased Array Systems

Technical Tips

M64NVA8

(normal field polarity)

M64NVA8-RP

(reversed field polarity)

Patient Positioning Instructions

1. Place the NVA8 on the patient table. Insert the connector box into the phased array port. Slide the head coil section superiorly toward the scanner. Place the anterior neck section in the full upright position. (The table may be raised or lowered with the connector box plugged into the phased array port).
2. Position the patient in the head-first supine orientation. Rest the shoulders gently against the shoulder support of the posterior cervical spine section. Ensure that the patient is as far superior in the coil as possible.
3. Slowly lower the anterior neck coil section to the full down position. Carefully lower and pivot the anterior neck section to fit the patient.
4. Carefully slide the head coil section inferiorly from the carriage until the head coil section is over the patient's head. Landmark according to anatomical regions, there are no landmark locations on the coil.
5. Align the mirror by sliding superiorly/inferiorly to provide the patient with optimal view.
6. The MEDRAD VNECK8 configuration file provides the ability to scan with the head coil in the superior position and not over the patient's head. This application may be useful for neck imaging for the claustrophobic patient.

Note: Ensure that the coil polarity matches the system's polarity. Please refer to the operator's manual for complete cautions and warnings. Load the configuration files and reboot the system prior to scanning. Please refer to www.medrad.com/nva8 for the most up-to-date configuration file information.

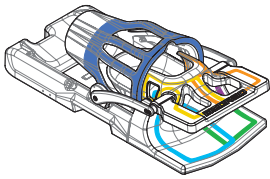
MEDRAD

8-Channel Neurovascular Array

Coil Configuration Options:

Apply SCIC when imaging in all configuration files

MEDRAD NVPA8 (Neurovascular Phased Array)

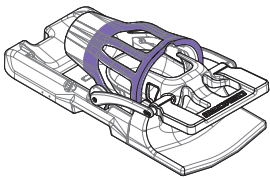


- Entire array activated
- Combines 8 head coil elements into 4 receivers
- 2 Anterior neck elements into 2 separate receivers
- 2 Posterior neck elements into 2 separate receivers
- Designed for Parallel Imaging
- SCIC recommended
- Not compatible with Spectroscopy
- Maximum FOV 44 cm

Applications:

- Carotid Arteries
- Soft Tissue Neck
- Cervical Spine
- Brachial Plexus
- Aortic Arch

MEDRAD HRBRN8 (High Resolution Brain)

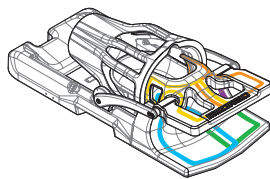


- Head section of the array activated
- 8 elements to 8 separate receivers
- Designed for Parallel Imaging
- SCIC recommended
- Not compatible with Spectroscopy
- Maximum FOV 24 cm

Applications:

- Brain/Cerebellum Imaging
- Circle of Willis
- EPI

MEDRAD VNECK8 (Volume Neck)

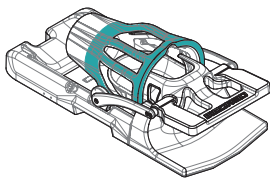


- Cervical Spine and the Anterior Paddle elements of the array activated
- 2 Anterior neck elements into 2 separate receivers
- 2 Posterior neck elements into 2 separate receivers
- May run configuration with head coil over patient or in superior position
- Designed for Parallel Imaging
- SCIC recommended
- Not compatible with Spectroscopy
- Maximum FOV 24 cm

Applications:

- Soft Tissue Neck
- Cervical Spine (MEDRAD NVPA8 may provide better coverage)

MEDRAD SPECTRO8 (Spectroscopy)



- Head section of the array activated
- 8 elements into 1 receiver
- Maximum FOV 24 cm

Applications:

- Single and Multi-Voxel Spectroscopy imaging of the Brain

Tips

- Pre-load protocols with correct coil configuration file choice, then save as protocol prior to scanning patients.
- Cable trap may warm during normal operation, and is expected due to the electronic components in the device.
- There are no alignment marks on the coil. Please use anatomical locations when positioning patients.
- The head section moves superiorly on the base to allow positioning of patients but is not removable from the base.
- The patient table may be raised or lowered with the connector box plugged into the phased array port.
- When lowering the patient table, the cable trap contact with the magnet will not cause harm to the coil or cable trap.
- The patient is positioned lower on the table due to the coil's longer base. MEDRAD offers an ergonomic leg support pad to relieve back pressure and minimize the possibility of patients crossing their legs.
- Adjust mirror by sliding inferiorly or superiorly. Mirror is designed to "give way" if used as a handle.
- Refer to www.medrad.com/nva8 for configuration file information.

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