

February 21, 2023

Time Medical Limited % Nick Tse VP, Regulatory and Quality Systems Flat/Rm 301, 3/F 20E, 20 Science Park East Avenue Hong Kong Science Park Shatin, Hong Kong, HKSAR CHINA

Re: K222259

Trade/Device Name: NEONA 1.5T MRI System

Regulation Number: 21 CFR 892.1000

Regulation Name: Magnetic resonance diagnostic device

Regulatory Class: Class II Product Code: LNH Dated: January 12, 2023 Received: January 20, 2023

Dear Nick Tse:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database located at https://www.accessdata.fda.gov/scripts/cdrh/efdocs/efpmn/pmn.cfm identifies combination product submissions. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal

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statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803) for devices or postmarketing safety reporting (21 CFR 4, Subpart B) for combination products (see https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to https://www.fda.gov/medical-device-problems.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance) and CDRH Learn (https://www.fda.gov/training-and-continuing-education/cdrh-learn). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Daniel M. Krainak, Ph.D.

Assistant Director

Magnetic Resonance and Nuclear Medicine Team

DHT8C: Division of Radiological Imaging

and Radiation Therapy Devices

OHT8: Office of Radiological Health

Office of Product Evaluation and Quality

Center for Devices and Radiological Health

Enclosure

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

510(k) Number (if known)

Form Approved: OMB No. 0910-0120 Expiration Date: 06/30/2023

See PRA Statement below.

K222259	
Device Name NEONA 1.5T MRI System	
ndications for Use (Describe) NEONA 1.5T MRI system is indicated for use as a magnetic resonance diagnostic device (MRDD) which produces ransverse, sagittal, coronal and oblique cross-sectional images, and those display the internal structure and/or function of he head, body, or extremities. Depending on the region of interest, contrast agents may be used. These images when nterpreted by trained physician yield information that may assist medical diagnosis.	
Type of Use (Select one or both, as applicable)	
Prescription Use (Part 21 CFR 801 Subpart D) Over-The-Counter Use (21 CFR 801 Subpart C)	
CONTINUE ON A SEPARATE PAGE IF NEEDED.	

This section applies only to requirements of the Paperwork Reduction Act of 1995.

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510(K) SUMMARY OF SAFETY AND EFFECTIVENESS

This 510(k) Summary is being submitted in accordance with the requirements of SMDA 1990 and 21 CFR 807.92.

Date of Submission:		
Sponsor:	Time Medical Limited Unit 301, 20E, Science Park East Ave, Hong Kong Science Park, Shatin, New Territories, Hong Kong, China Contact Person: Nick Tse – VP, Regulatory and Quality System Telephone number: +852 21561711 (ext. 119) Fax.: +852 2156 0908	
Correspondent:	Time Medical Limited Unit 301, 20E, Science Park East Ave, Hong Kong Science Park, Shatin, New Territories, Hong Kong, China Contact Person: Nick Tse – VP, Regulatory and Quality System Telephone number: +852 21561711 (ext. 119) Fax.: +852 2156 0908	
Filing Device:	NEONA 1.5T MRI System	
Classification Name:	System. Nuclear Magnetic Resonance Imaging	
Regulatory Description:	Magnetic Resonance Diagnostic Device (MRDD)	
Classification Class	Class II / LNH / 21 CFR 892. 1000	
Intended Use:	NEONA 1.5T MRI system is indicated for use as a magnetic resonance diagnostic device (MRDD) which produces transverse, sagittal, coronal and oblique cross-sectional images, and those display the internal structure and/or function of the head, body, or extremities. Depending on the region of interest, contrast agents may be used. These images when interpreted by trained physician yield information that may assist medical diagnosis.	
Device Description:	The NEONA 1.5T MRI System is a 1.5T superconducting magnet MRI system which produces transverse, sagittal, coronal and oblique cross-sectional images, and those display the internal structure and/or function of the head, body, or extremities. It is composed of Magnet, Magnet Enclosure, Patient Table, Gradient Coil, Transmission Coil, Receiver Coil, Client PC, and Imaging Cabinet. The system software, Prodiva, a Windows-based software, is an interactive program with user friendly interface. The device is conformed to IEC and DICOM standards.	

General Comparison to Predicate Device:

Comparison Element	Filing Device:	Predicate Device:
510(k) Number	N.A.	K183621
Model	15000-02	15000-01
Device Name	NEONA 1.5T MRI System	EMMA 1.5T MRI System
Applicant	Time Medical Limited	Time Medical Limited
Classification Name	System, Nuclear Magnetic	System, Nuclear Magnetic
	Resonance Imaging	Resonance Imaging
Product Code	LNH	LNH
Regulation Number	21 CFR 8	892.1000
Panel	Radio	ology
Class	Clas	ss II
Indications for Use	NEONA 1.5T MRI system is	The EMMA 1.5T MRI System is
	indicated for use as a magnetic	indicated for use as a magnetic
	resonance diagnostic device	resonance diagnostic device
	(MRDD) which produces	(MRDD) which produces
	transverse, sagittal, coronal and	transverse, sagittal, coronal and
	oblique cross-sectional images, and	oblique cross-sectional images, and
	those display the internal structure	those display the internal structure
	and/or function of the head, body,	and/or function of the head, body,
	or extremities. Depending on the	or extremities. Depending on the
	region of interest, contrast agents	region of interest, contrast agents
	may be used. These images when	may be used. These images when
	interpreted by trained physician	interpreted by trained physician
	yield information that may assist	yield information that may assist
	medical diagnosis.	medical diagnosis.

The filing device has the same US FDA classification information including classification name, product code, regulation number, panel, and class with the predicate device.

The filing device has the same major indications for use as the predicate device: the device produces transverse, sagittal, coronal and oblique cross-sectional images, and those display the internal structure and/or function of the head, body, or extremities. Depending on the region of interest, contrast agents may be administrated according to physician's instructions. These images when interpreted by trained physician yield information that may assist medical diagnosis.

The minor differences in indications for use do not constitute any safety and effectiveness issue, as indicated in the performance data provided.

Technological Characteristics

NEONA 1.5T MRI system is based on the principle that certain atomic nuclei present in the human body, when placed in a strong magnetic field and excited by a radio frequency signal at the precession frequency, will emit a relaxation signal. The emitted relaxation signals are acquired by signal receiving coils and are analyzed by the system. Human-interpretable images are reconstructed by and stored in the computer and displayed on the screen.

The principal components of NEONA 1.5T MRI system includes

- Superconducting magnet with corresponding cooling devices
- Gradient system
- RF transmission and receive system
- Cooling system for different components of the system
- Patient table and support components
- Spectrometer
- Server/Client PC and application software

The superconducting magnet is made of coils of superconducting wires and is cooled to and maintained at low temperature. When energized, current flows continuously inside the superconducting wires as a closed loop; thus producing a constant magnetic field. This has the same major technological characteristics as the predicate device.

The gradient system consists of a gradient coil and the gradient amplifier. The gradient coil produces varying linear gradient fields in the three orthogonal spatial axes with currents given by the gradient amplifier. The gradient coil can also produce various non-linear gradients fields to improve the homogeneity of the main magnetic field. This has the same major technological characteristics as the predicate device.

The RF transmission and receive system consists of the RF amplifier, the RF transmission coil and various RF receiver coils for receiving the relaxation signals emitted from the subject after RF transmission. They are coils made of copper wires tuned to transmit and receive around the designed frequency corresponding to the magnetic field strength. This has the same major technological characteristics as the predicate device.

The cooling system maintains suitable operating temperatures for amplifiers and other system devices. This has the same major technological characteristics as the predicate device.

The patient table and support components provide a comfortable platform for the patient and allows the operator to easily position the patient to the location for imaging. This has the same major technological characteristics as the predicate device.

The spectrometer controls the execution of the pulse sequence for RF transmit and receive and gradient output. This has the same major technological characteristics as the predicate device.

The server/client PC and the application software provides the operator a platform to configure scans and manage scanned data. Raw data received from the spectrometer is also reconstructed here. This has the



same major technological characteristics as the predicate device.
Therefore, the same scientific technology theory is applied to both the NEONA 1.5T MRI system and predicate device.
Any minor differences in physical attributes do not constitute any safety and effectiveness issue, as indicated in performance data provided.

recognized standards: AAMI / ANSI ES60601-1:2005/(R)2012 and A1:2012, C1:2009/(R)2012 and A2:2010(R)2012(Cons.Text) [Incl.AMD2:2021] - Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance [Including Amendment 2 (2021)] EC 60601-1:22020 Edition 4.1 - Medical Electrical Equipment - Part 1-2: General Requirements for Basic Safety and Essential Performance — Collateral Standard: Electromagnetic Disturbances - Requirements and Tests [Including Amendment 1 (2021)] EC 60601-2:33:2015 - Medical Electrical Equipment - Part 2-33: Particular Requirements for The Basic Safety and Essential Performance of Magnetic Resonance Equipment for Medical Diagnostic NEMA MS-1-2008 (R2020) - Determination of Signal-to-Noise Ratio (SNR) in Diagnostic Magnetic Resonance Images NEMA MS 2-2008 (R2020) - Determination of Two-Dimensional Geometric Distortion in Diagnostic Magnetic Resonance Images NEMA MS 3-2008 (R2020) - Determination of Image Uniformity in Diagnostic Magnetic Resonance Images NEMA MS 3-2008 (R2020) - Determination of Image Uniformity in Diagnostic Magnetic Resonance Images NEMA MS 4-2010 - Acoustic Noise Measurement Procedure for Diagnosing Magnetic Resonance Imaging Devices NEMA MS 4-2018 - Determination of Slice Thickness in Diagnostic Magnetic Resonance Imaging Devices NEMA MS 6-2008 (R2014) - Determination of Signal-to-Noise Ratio and Image Uniformity for Single-Channel Non-Volume Coils in Diagnostic MR Imaging NEMA MS 8-2016 - Characterization of The Specific Absorption Rate For Magnetic Resonance Imaging Systems NEMA MS 9-2008 (R2020) - Characterization of Phased Array Coils for Diagnostic Magnetic Resonance Imaging Systems NEMA MS 9-2008 (R2014) - Determination of medical devices - Part 1: Evaluation and testing within a risk management process Iso 10993-10:2018 Edition 3 - Biological Evaluation of Medical Devices - Part 1: Tests For In Vitro Cytotoxicity Submission of Premarket Notifications for Magnetic Resonance Diagnostic Devices - Part 10: Tests		The filing device is eleimed to comply with the following sited EDA			
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legally marketed predicate device.					
dample clinical images are provided to verify the claim of lilling devices		Sample clinical images are provided to verify the claim of filing device's			
Clinical Testing capability in generating images for diagnostic purposes. Sample clinical	Clinical Tasting				
Image sets from filing device and predicate device on same pulse	_				
sequences are provided to demonstrate the substantial equivalence of	Sammary.				
filing device to legally marketed predicate device.		tiling device to legally marketed predicate device.			



Conclusions Drawn from Non-Clinical Information and Clinical Images:	The non-clinical information (safety and performance tests), combined with clinical images (both from filing device and predicate device), demonstrate that the filing device is as safe, as effective, and performs as well as the predicate device.
SE Conclusion:	The filing device has the same intended use as the predicate device. The minor differences in indication for use do not constitute any safety and effectiveness issue, as indicated in performance data provided. The filing device utilizes same technologies as predicate device, and gives consistent results (images) in medical diagnosis. Any minor differences in physical attributes do not constitute any safety and effectiveness issue, as indicated in performance data (non-clinical/clinical) provided. Therefore the filing device is demonstrated, for being substantially equivalent to the legally marketed predicate device.

510(K) SUMMARY OF SAFETY AND EFFECTIVENESS ADDITIONAL INFORMATION

Comparison of Technological Characteristics with the Predicate Device:

Comparison of Technological Characteristics with the Predicate Device:		
General	Filing Device	Predicate Device
Design	Cylindrical	Cylindrical
Materials	FRP	, ABS
Power Source	Isolated po	ower supply
Performance Data	Comply with: - NEMA MS standards - IEC standards: IEC 60601-1, IEC60601-1-2, IEC60601-2-33	
Magnet	Filing Device	Predicate Device
Туре	Superco	onducting
Field Strength		.5T
Weight	2,987 kg	3,200 kg
Overall Dimensions	1378 x 1736 x 2148 mm (L x W x H)	1497 x 1880 x 2421 mm (L x W x H)
Cryogen Type	Liquid helium free magnet bore, with 4K cryo-compressor	Liquid Helium
Spatial Homogeneity	3.04 ppm (rms) at 40cm DSV	1.45 ppm at 40 cm DSV
Fringe Field	5 gauss line < 3m radial x 4m axial	5 gauss line < 2.5m radial x 4m axial
Magnet Room Lighting	For sufficient and even lighting, 16 overhead lamps (100 lumen each) recommended	For sufficient and even lighting, 16 overhead lamps (100 lumen each) recommended
Room Ventilation	HVAC is installe	ed for ventilation.
Gradient System	Filing Device	Predicate Device
Amplitude	52.0mT/m	43.6 mT/m
Rise time	366µs	0.17 ms
Slew rate	142T/m/s	257 T/m/s
Patient Table	Filing Device	Predicate Device
Dimensions (L x W x H)	88.6 x 17.8 x 37.3 inch (2250 x 452 x 947 mm)	92.1 x 24.6 x 34.0 inch (2340 x 624 x 864 mm)
Billionolollo (E X W X II)		
Patient positioning	Laser Localizer assisted automatic patient table positioning. Manual Position mode	Laser Localizer assisted automatic patient table positioning. Manual Position mode
· · · · · ·	Laser Localizer assisted automatic patient table positioning.	Laser Localizer assisted automatic patient table positioning.
Patient positioning	Laser Localizer assisted automatic patient table positioning. Manual Position mode	Laser Localizer assisted automatic patient table positioning. Manual Position mode
Patient positioning Max Patient Weight Patient-control room	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two-way communication between	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for twoway communication between patient
Patient positioning Max Patient Weight Patient-control room communication	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two-way communication between patient and radiologist	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for twoway communication between patient and radiologist
Patient positioning Max Patient Weight Patient-control room communication Workstation	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for twoway communication between patient and radiologist Filing Device Multi-Processing, Multi-Core PC with 24-inch monitor	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two-way communication between patient and radiologist Predicate Device Multi-Processing, Multi-Core PC
Patient positioning Max Patient Weight Patient-control room communication Workstation Model Memory and Capacity	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for twoway communication between patient and radiologist Filing Device Multi-Processing, Multi-Core PC	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for twoway communication between patient and radiologist Predicate Device Multi-Processing, Multi-Core PC with 24-inch monitor
Patient positioning Max Patient Weight Patient-control room communication Workstation Model Memory and Capacity Operating System	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two- way communication between patient and radiologist Filing Device Multi-Processing, Multi-Core PC with 24-inch monitor 128GB of RAM, 2TB SSD Storage Microsoft Windows	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two-way communication between patient and radiologist Predicate Device Multi-Processing, Multi-Core PC with 24-inch monitor 64GB of RAM, 250GB SSD Storage Microsoft Windows
Patient positioning Max Patient Weight Patient-control room communication Workstation Model Memory and Capacity Operating System Receive Coils	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two- way communication between patient and radiologist Filing Device Multi-Processing, Multi-Core PC with 24-inch monitor 128GB of RAM, 2TB SSD Storage	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two-way communication between patient and radiologist Predicate Device Multi-Processing, Multi-Core PC with 24-inch monitor 64GB of RAM, 250GB SSD Storage
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Patient positioning Max Patient Weight Patient-control room communication Workstation Model Memory and Capacity Operating System Receive Coils Multi-Channel Head Coil Multi-Channel Head and neck Coil	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two- way communication between patient and radiologist Filing Device Multi-Processing, Multi-Core PC with 24-inch monitor 128GB of RAM, 2TB SSD Storage Microsoft Windows Filing Device	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two-way communication between patient and radiologist Predicate Device Multi-Processing, Multi-Core PC with 24-inch monitor 64GB of RAM, 250GB SSD Storage Microsoft Windows Predicate Device
Patient positioning Max Patient Weight Patient-control room communication Workstation Model Memory and Capacity Operating System Receive Coils Multi-Channel Head Coil Multi-Channel Head and neck Coil Multi-Channel Body Coil	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two- way communication between patient and radiologist Filing Device Multi-Processing, Multi-Core PC with 24-inch monitor 128GB of RAM, 2TB SSD Storage Microsoft Windows Filing Device	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two-way communication between patient and radiologist Predicate Device Multi-Processing, Multi-Core PC with 24-inch monitor 64GB of RAM, 250GB SSD Storage Microsoft Windows Predicate Device
Patient positioning Max Patient Weight Patient-control room communication Workstation Model Memory and Capacity Operating System Receive Coils Multi-Channel Head Coil Multi-Channel Head and neck Coil Multi-Channel Body Coil Multi-Channel Knee Coil	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two- way communication between patient and radiologist Filing Device Multi-Processing, Multi-Core PC with 24-inch monitor 128GB of RAM, 2TB SSD Storage Microsoft Windows Filing Device	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two-way communication between patient and radiologist Predicate Device Multi-Processing, Multi-Core PC with 24-inch monitor 64GB of RAM, 250GB SSD Storage Microsoft Windows Predicate Device ✓ ✓
Patient positioning Max Patient Weight Patient-control room communication Workstation Model Memory and Capacity Operating System Receive Coils Multi-Channel Head Coil Multi-Channel Head and neck Coil Multi-Channel Body Coil Multi-Channel Knee Coil Pulse Sequences	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two- way communication between patient and radiologist Filing Device Multi-Processing, Multi-Core PC with 24-inch monitor 128GB of RAM, 2TB SSD Storage Microsoft Windows Filing Device	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two-way communication between patient and radiologist Predicate Device Multi-Processing, Multi-Core PC with 24-inch monitor 64GB of RAM, 250GB SSD Storage Microsoft Windows Predicate Device ✓
Patient positioning Max Patient Weight Patient-control room communication Workstation Model Memory and Capacity Operating System Receive Coils Multi-Channel Head Coil Multi-Channel Head and neck Coil Multi-Channel Body Coil Multi-Channel Knee Coil Pulse Sequences T1 Spin Echo	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two- way communication between patient and radiologist Filing Device Multi-Processing, Multi-Core PC with 24-inch monitor 128GB of RAM, 2TB SSD Storage Microsoft Windows Filing Device Filing Device	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for twoway communication between patient and radiologist Predicate Device Multi-Processing, Multi-Core PC with 24-inch monitor 64GB of RAM, 250GB SSD Storage Microsoft Windows Predicate Device ✓ ✓ Predicate Device
Patient positioning Max Patient Weight Patient-control room communication Workstation Model Memory and Capacity Operating System Receive Coils Multi-Channel Head Coil Multi-Channel Head and neck Coil Multi-Channel Body Coil Multi-Channel Knee Coil Pulse Sequences T1 Spin Echo T1, T2 Fast Spin Echo	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two- way communication between patient and radiologist Filing Device Multi-Processing, Multi-Core PC with 24-inch monitor 128GB of RAM, 2TB SSD Storage Microsoft Windows Filing Device Filing Device Filing Device	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for twoway communication between patient and radiologist Predicate Device Multi-Processing, Multi-Core PC with 24-inch monitor 64GB of RAM, 250GB SSD Storage Microsoft Windows Predicate Device ✓ Predicate Device ✓ Predicate Device
Patient positioning Max Patient Weight Patient-control room communication Workstation Model Memory and Capacity Operating System Receive Coils Multi-Channel Head Coil Multi-Channel Head and neck Coil Multi-Channel Body Coil Multi-Channel Knee Coil Pulse Sequences T1 Spin Echo	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two- way communication between patient and radiologist Filing Device Multi-Processing, Multi-Core PC with 24-inch monitor 128GB of RAM, 2TB SSD Storage Microsoft Windows Filing Device Filing Device Filing Device	Laser Localizer assisted automatic patient table positioning. Manual Position mode 200kg Microphones and speaker for two-way communication between patient and radiologist Predicate Device Multi-Processing, Multi-Core PC with 24-inch monitor 64GB of RAM, 250GB SSD Storage Microsoft Windows Predicate Device ✓ ✓ Predicate Device ✓ ✓ Predicate Device

2D Image Processing Features	Filing Device	Predicate Device
Image panning, zooming, windowing	✓	✓
Image flipping, inverting and rotation	✓	✓
Statistical Analysis	✓	✓
Geometric Measurement	✓	✓
Phase Image	✓	✓
CINE	✓	✓
Shutter	✓	✓
Image Filtering	✓	✓
Image Subtraction	✓	✓
Slice Profile	✓	✓
Histogram	✓	✓
3D Image Processing (MPR/Max.IP)	Filing Device	Predicate Device
Image panning, zooming, windowing	✓	✓
Cutting Operation Output Stack	✓	✓
Image export	√	√

The filing device basically utilizes same technologies as predicate device, and can give consistent results when using the images in medical diagnosis. The minor differences in technological characteristics do not constitute any safety and effectiveness issue, as indicated in performance data provided.