

Product Model

A22-OP Version v3.0.4.X



SwiftMR User Manual, English A22-OP-UM-JP-EN Revision 2 (2024-05) ©2023 AIRS Medical Inc. All rights reserved.

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Thank you for using AIRS Medical's Product.

AIRS Medical Inc. is a company devoted to developing products that exceed customer expectations as well as meet the relevant standards and legal requirements by aiming for world-class excellence in all tasks we perform.

This user manual provides instructions for using SwiftMR, including warnings and cautions to prevent hazardous situations. Please read this User Manual thoroughly before use.

Homepage

For more information about AIRS Medical and our products, please visit us at www.airsmed.com.

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- User manuals for SwiftMR are provided in electronic forms (eIFU). Internet connection is essential to access the eIFU.
- AIRS Medical Inc. may change or modify the specifications of the product and the contents of the manual without prior notice.



1. Introduction

1.1. Product Overview

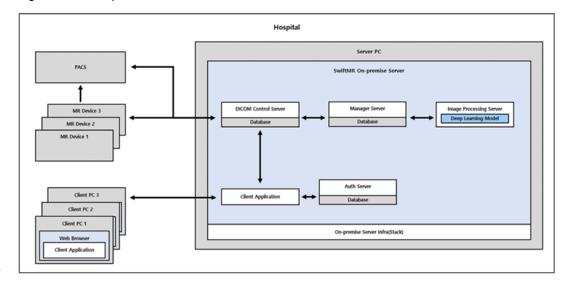
SwiftMR provides automated image quality enhancement for MR images acquired from various environments. This device should be used only for professional purposes.

SwiftMR's automated processes are as follows:

- Uploading MR images in DICOM format after completions of MR scans
- Enhancing image quality using deep learning model
- Downloading enhanced MR images in DICOM format

Integration of PACS inside the institution with the manufacturer's server is necessary at the first installation of this product. Afterwards, SwiftMR performs image processing in the background automatically and provides logged in users the authorization to use functions and view image processing results in a worklist format through Client Application.

The figure below depicts the overall architecture of SwiftMR.





1.2. Intended Use

SwiftMR is a stand-alone software solution intended to be used for acceptance, enhancement and transfer of all body parts MR images in DICOM format. It can be used for noise reduction and increasing image sharpness for MR images. SwiftMR is not intended for use on mobile devices.

1.3. Functionalities

- Worklist view
 - o Search by Scan date
 - Search by Patient name and/or Patient ID
 - Search by Modality
 - o Search by Body part
 - o Search by Status of image processing
- Image processing
 - o Import acquired MR images from PACS or MR Device
 - o Enhance image quality
 - o Download the enhanced MR images to PACS/MR Device

1.4. Minimum Requirements for the Software Operating Environment

Item	On-premise Server	Client Application
OS	Ubuntu 20.04	N/A
Hardware	CPU: Intel i5 RAM: 16GB above SSD: 512GB available GPU: NVIDIA RTX A4000 16GB	N/A
Web Browser	N/A	Google Chrome 92.0.4515 version or later Microsoft Edge 92 version or later
Network	Ethernet-based Intranet connection	
Monitor	N/A	1600X900 resolution with 8-bit color



1.5. Symbols Glossary

Symbols used in this user manual is as follows. Please familiarize yourself with the symbols in the table below.

Warnings, cautions and notes are for the correct and safe usage of the product. Please be advised of all the following for safety. AIRS Medical Inc. is not responsible for failures due to negligence of safety warnings and cautions.

Symbols	Meaning
Note	Indicates useful information about features of the software.
Caution	Indicates potentially hazardous situations for the patient or user that could result in lost time, reduced image quality and/or re-examination of the patient.
Warning	Indicates potentially hazardous situations that could result in direct or indirect patient injury, mainly in the form of misinterpretation or misdiagnosis.
	Manufacturer. The symbol is accompanied by the name and address of the manufacturer.
ŢŢ i	e-IFU (electronic-Instructions for Use) The link that directs users to this user manual is alongside the symbol.

1.6. Cautions



Warning

- SwiftMR is designed for trained radiology technologists. Those who are not trained should not use this product.
- Images that have already been quality-enhanced by deep-learning (including SwiftMR) or non deep-learning should not be processed again. This may cause damage to the images.



General Caution

- Installation, maintenance, repair, and uninstallation of SwiftMR must only be done by engineers qualified and certified by AIRS Medical Inc.
- Operation and maintenance of SwiftMR strictly follows the user manual.
 Please preserve this user manual well.



Caution for Use

- Check before use to see if the Quality Check, that the system conducts automatically at a specified time each day or conducted manually, has successfully been completed.
- o Do not turn off the power of the PC or programs during use.
- o After use, be sure to log out of the program.



1.7. Abbreviations

The following is the definitions of the abbreviations used in this User Manual.

DICOM	Digital Imaging and Communications in Medicine	
MRI	Magnetic Resonance Imaging	
PACS	Picture Archiving and Communication System	



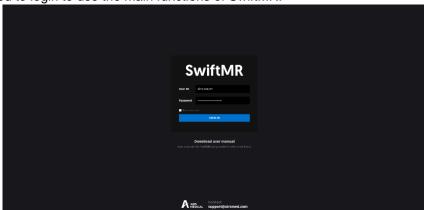
2. Functions

Client Application can be accessed through Google Chrome or Microsoft Edge browser in the hospital where SwiftMR is installed. You can access it through [SwiftMR server's IP address in the hospital]: 30777/swiftmr-client.

The main functions of the Client Application are as follows.

2.1. Login and Logout

You need to login to use the main functions of SwiftMR.



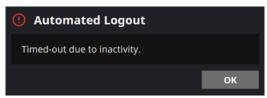
- Login: Enter ID and password provided by AIRS Medical and then click SIGN IN. When login succeeds, the main page of SwiftMR A22-OP will appear.
- **Logout:** You can log out from SwiftMR to prevent unauthorized access by clicking the Logout button (Dogout Succeeds, you will be directed to the login page.
- **User Manual:** You can access the e-IFU download page of AIRS Medical by clicking on the "Download user manual" button (Download user manual).

Note	Note: User account is created by AIRS Medical. After an account is created, you will
<u></u>	be able to use it after resetting the password upon first login.
	Caution: If login fails because an invalid ID or password was entered into the input
$\angle!$	field, an error message will show up. If you forget your ID or password, contact
_	Customer Support (support@airsmed.com).
A	Caution: SwiftMR does not allow simultaneous logins of the same account. If you try
<u> </u>	to login to an already logged-in account, the previously accessed session will be
	terminated.
	Caution: When login attempts fail 10 times, the user is restricted from login for the
$\langle i \rangle$	next 5 minutes.
	Coution: Diagge contact Customer Support (cusport@giremed.com) if you conset
∕ 1\	Caution: Please contact Customer Support (support@airsmed.com) if you cannot
ت	access the eIFU download page.



2.2. Automated Logout

Users inactive for a certain period will be automatically logged out from SwiftMR to prevent unauthorized access. In the event of an automated logout, a Toast Message will appear and the Client Application screen will return back to the login page, or it can be removed by clicking the OK button at the bottom.



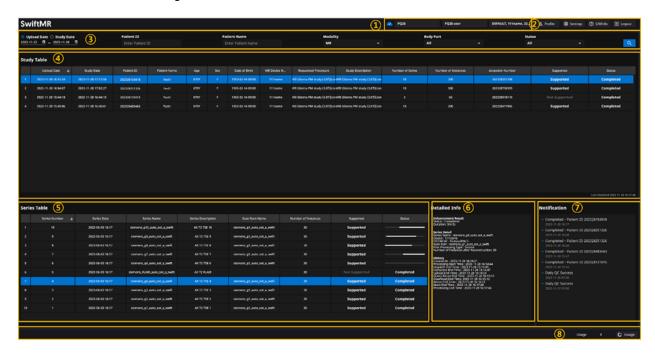
The Toast Message for automated logout disappears after a certain period.



2.3. Main Page

Main page of SwiftMR is constructed as follows:

- SwiftMR loads the list of acquired MR images from the MR Device and displays it in a worklist format.
- Users can easily search for an image of interest, and view detailed information, processing status, and processing results of the listed MR images from the worklist that is updated periodically.
- Users can check image processing results of each MR image in the Detailed Info section.
- Also, at the bottom of the main page, the license expiration, current usage, and maximum usage can be viewed.



Detailed functions are as follows.

No	Function	Item	Description
1	Status Bar		Network connectivity status (Blue: Connected, Red:
			Disconnected, Grey: Connectivity Check Unavailable)
		ABC Gwanak	Institution name
		AIRSAdmin01	Name of the accessed user
		MR 1	Name of the connected MR device(s)
2	User Menu	2 Profile	User Profile
		Settings	Software settings
		② S/W Info	Software information



		→ Logout	Logout
3	Filter/Search	Data Range	Function to search the worklist by date range.
		Patient ID	Function to search the worklist by patient ID
		Patient Name	Function to search the worklist by patient name
		Modality	Function to search the worklist by modality
		Body Part	Function to search the worklist by body part
		Status	Function to search the worklist by image processing
		2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	status
			Button to execute the search by the selected
		Q	conditions
4	MR Study	Upload Date	Upload scan date (Year-Month-Day)
	Table	Study Date	Study scan date (Year-Month-Day)
		Patient ID	Patient ID
		Patient Name	Patient name
		Sex	Patient sex
		Age	Patient age
		Date of Birth	Patient date of birth (Year-Month-Date)
		MR Device Name	Name of the MR device that created the study (based on SwiftMR registration)
		Requested Procedure	Requested procedure
		Study Description	Name of study protocol
		Number of Series	Total number of series in a study
		Number of Instances	Total number of images in a study
		Accession number	Unique identification number of each image
		Supported	Image process support
		Status	Image processing status
			In Progress
			Completed
			Error
5	MR Series Table	Series number	Sequence number of the series within the study selected from the study table
		Series Date	Scan date of each series
		Series Description	Detailed description of the scanned sequences for each series
		Protocol Name	Protocol name of the scanned sequences for each series
		Scan Item Name	Protocol name of the sequence registered in SwiftMR
		Number of Images	Total number of images in a series
		Supported	Image process support
		Status	Image processing status of the series
6	Detailed Info	Enhancement Result	Enhancement result Status: Completed, In Progress, Error Duration: Processing time
		Series Detail	Duration: Processing time Series Name: Processed acquares name
		Series Detail	 Series Name: Processed sequence name Device: MRI equipment name images are stored in DICOM AE: PACS name images are stored in



			 Scan Item: Sequence protocol information registrered in SwiftMR Post Processing Type: Post processing type in the case of post processing images Number Of Instances after Reconstruction: Number of slices in series that have been processed
		History	 Created At: Series transmission start time Processing Start Time: Processing start time Processing End Time: Processing end time End time of other processing stages
		Error Detail	 Code: Error code Message: Error Message RetryCount: Number of retries attempted
7	Notification	Notification	Notification window displaying image processing status, Daily QC results, etc.
8	Contract Information Status Bar	① Expiration date	Contract End Date
		Usage	Current Usage and Maximum Usage



Caution: The network connection status icon shows the connection between the institution's network and the server of SwiftMR. If a problem occurred with the internet connection of the PC running the software, you will not be able to check this through the network connection status icon, and you will be automatically logged out.



Warning: When network connection status icon is marked red or grey, it may cause problems regarding image processing. Resolve the problem as soon as possible by contacting the IT manager or the manufacturer.



Caution: Worklist displays only the acquired MR images from the selected MR devices. Therefore, when you cannot find the desired study in the worklist, check the selected MR devices.



Caution: Personal information stored in SwiftMR is anonymized 24 hours after registration. Use the PACS Viewer to inquire patient information about MR studies processed by the product.



2.4. Image Processing Availability

Image processing availability is classified as follows.

mago processing a ramability to classification of		
lcon	Description	
Supported	 Image Processing - Supported Study Table: If there is at least one SwiftMR-supported series among the series in the applicable study, the "Supported" icon will be displayed. Series Table: If the series is supported by SwiftMR, then the "Supported" icon will be displayed. 	
Not Supported	 Image Processing – Not Supported Study Table: If there is no SwiftMR-supported series among the series in the applicable study, the "Not Supported" icon is displayed. Series Table: If the series is not supported by SwiftMR, then the "Not Supported" icon will be displayed. 	

2.5. Image Processing Status

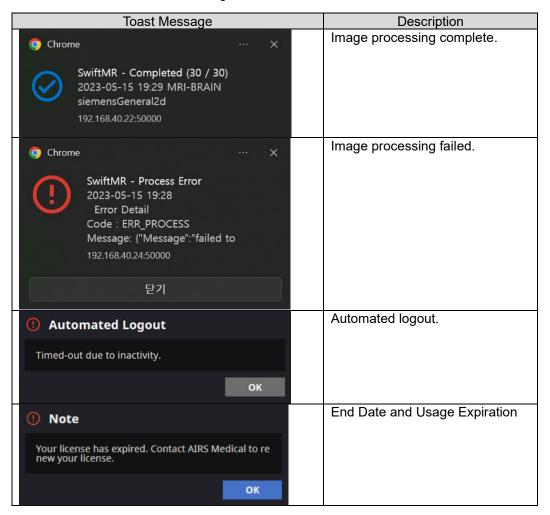
• Image processing status is classified as follows.

Icon	Description		
	In progress		
	Image processing progress is indicated with a progress bar		
Completed Completed			
	 For Supported Studies: Indicates that image processing has been completed and that the processed images are successfully stored to the selected DICOM AE (PACS, MR Device). For Not Supported Studies Indicates that unsupported images are 		
	successfully stored to the selected DICOM AE (PACS, MR Device).		
ERROR	Error		
	An error occurred during image processing.		



2.6. Toast Message

Users are notified of significant processing results with a toast message and through the Notification section. Toast message for each situation are as follows:





Caution: Toast messages for the image processing results are only displayed for the connected MR devices. If images that are scanned through a desired device cannot be viewed, check the device setting in Settings → Device.



Caution: Toast message for image processing and image processing history in the Notification section is only shown for the connected MR devices. Therefore, if toast message for a desired study does not show up, please reset the device for which you want to be notified through the device settings in Section 2.7.5.

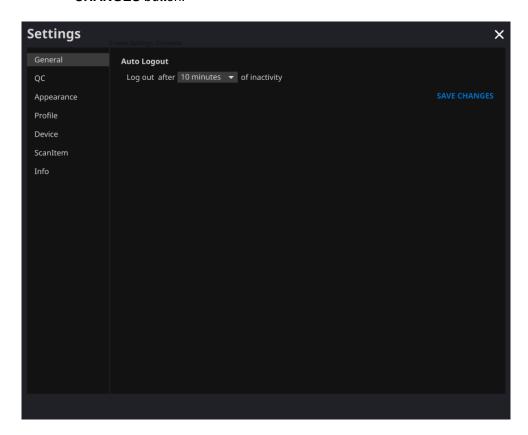


2.7. Settings

Users can open settings by clicking on the software preferences button (). Users can set various environment settings related to software operation in the software settings window. Software settings of the user consists of General, QC, Appearance, Profile, Device, Scan Item, and Info tabs.

2.7.1. General Settings

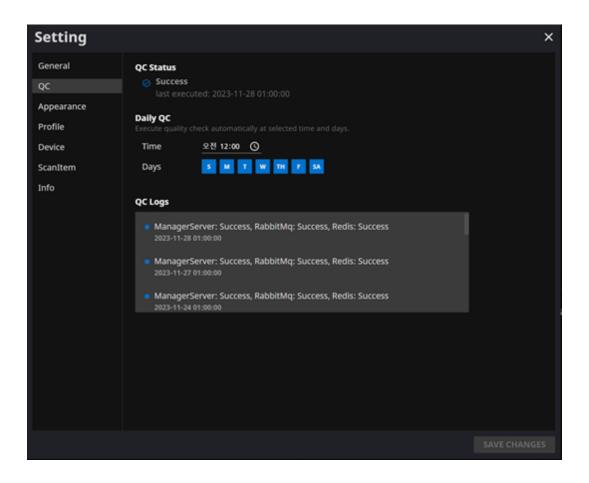
 Auto logout time settings: User can set the automated logout time from the General tab of Settings. Choose the time of the inactive period in which automated logout will occur afterwards from the drop-down menu and click on the SAVE CHANGES button.





2.7.2. Quality Check (QC) Settings

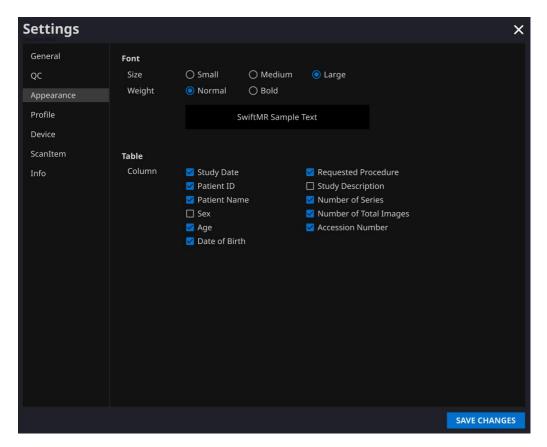
- User can view the Quality Check settings and the results from the QC tab of Settings
 - QC Status: User can check the results and time of the most recently performed QC.
 - o **Daily QC:** User can check how the QC time is set.
 - o **QC Logs:** User can view the notifications regarding QC results.





2.7.3. Appearance Settings

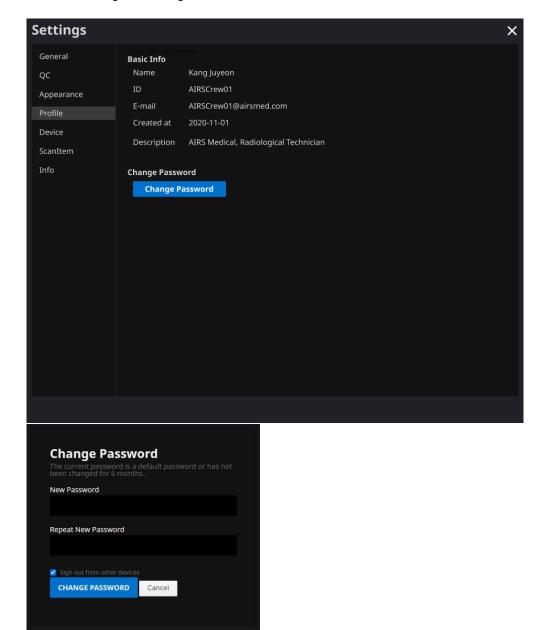
- User can set the appearance of the main page from the Appearance tab of Settings.
 - o Font:
 - Size Choose from Small, Medium, and Large Weight Choose between Normal and Bold
 - o **Table:** Select the columns to be shown in Worklist Table.
- After establishing the settings, click on the **SAVE CHANGES** button.





2.7.4. Profile Settings

- User can view or modify his/her own profile by clicking on the Profile button
 (Profile) or from the Profile tab of Settings.
- User can access the password change page through the password change button
 (Change Password change the user's password from the password change page.
- After establishing the settings, click on the SAVE CHANGES button.

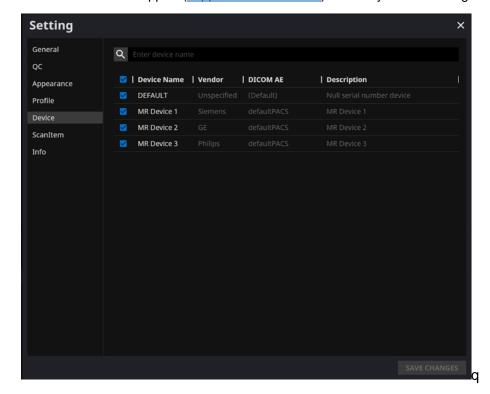


Note: Password must satisfy the password policy of having at least 8 characters including 1 letter, 1 number, and 1 special symbol.



2.7.5. Device Settings

- Users can select the MR devices to receive notifications for image processing results among the list of registered MR devices from Device tab of Settings.
- All registered MR devices are selected by default.
- Unselect: Uncheck the device and click SAVE CHANGES.
- Select: Check the device and click SAVE CHANGES.
- After establishing the settings, click on the SAVE CHANGES button.
- Contact Customer Support (support@airsmed.com) to modify device settings.

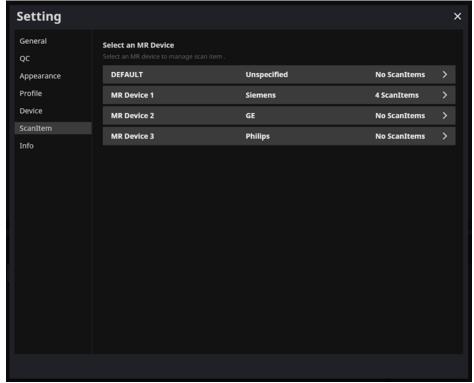


Note: Each user can select multiple MR devices to receive notifications for.

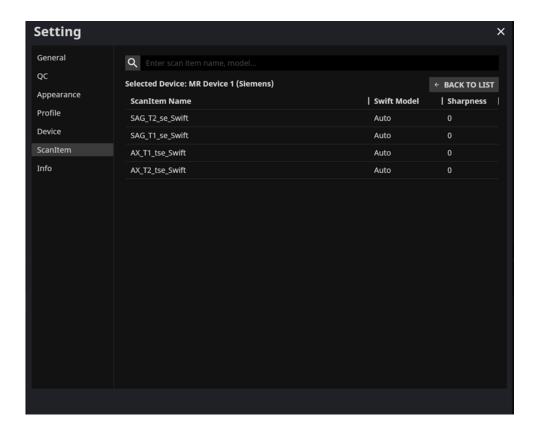


2.7.6. Scan Item Settings

- Users can view the SwiftMR image processing standard protocols, set for the applicable MR Device by selecting the desired device in the Scan Item tab of Settings.
- SwiftMR takes the Scan Item Name of an MR image to decide whether to process it.
 When processing is required, the enhancement will follow the Swift Model predefined in the Protocol setting.
- The Denoising Level and Sharpness Level to be applied during the image quality improvement process can be set through Customer Support.
- Please check the protocols for image processing before using SwiftMR.
- Contact Customer Support (<u>support@airsmed.com</u>) to modify scan item settings.









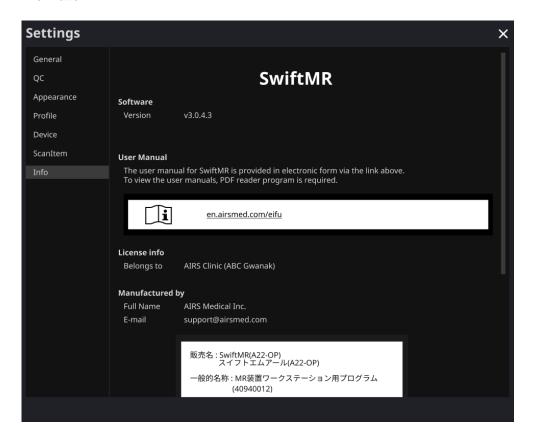
Caution: If the input MR images were not obtained with the recommended MR imaging settings, there may be performance degradation in the resulting processed images.



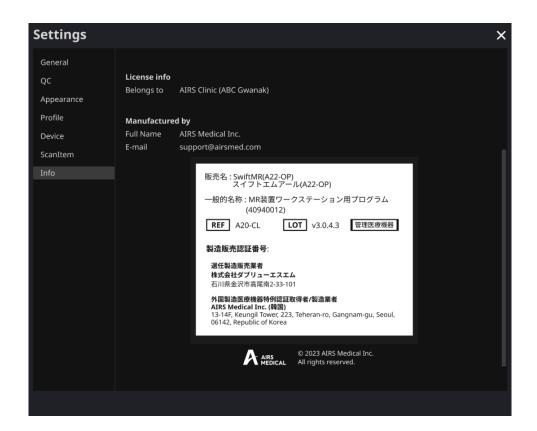
2.7.7. Info Settings

Users can view user manual, information of the license in use, software information, and manufacturer information by clicking on the **S/W Info** () button or from the Info tab of Settings.

In addition, the user can view the usage period information and maximum usage information.







2.8. Image Processing

2.8.1. General Information

- The intended patient population is all ages.
- The imaging is performed using the MRI scan protocols provided by the manufacturer. Before scanning, select the appropriate MR device in 'Settings → Scan Item' from the Client Application, check whether the protocol name for the scan is registered and displayed on the UI, and then proceed with the MRI scan. When scan is finished, the images are sent to the SwiftMR server through a specified path. When subscription ends, use of the service will automatically terminate, and images processed through SwiftMR will not be able to be received.
- When images are received at the SwiftMR server, image processing is conducted using SwiftMR's deep learning model. The processed images are automatically saved in PACS in the form of DICOM files, and they can be saved as a new series in an existing study, or as an independent study that can be created and saved in PACS. The preference of this option will be defined during the discussion between the institution and the manufacturer prior the contract.
- When image processing is completed, this can be informed through a notification from the Client Application. SwiftMR does not provide a viewer program, so please use the existing DICOM image viewer used by the institution for viewing the images.
- SwiftMR applies the denoising function to the original image and additionally applies the sharpening function to it. The degree of noise reduction by deep learning model is single and the user cannot select it. The degree of sharpness increase by deep learning model is single and the user cannot select it. The degree of sharpness increase by sharpening filter has 0-5 levels depending on the sharpening filter of SwiftMR.
- Denoising function can be set to be turned off or set to increase the SNR by more than 40%, only our service engineers can adjust the settings.
- When denoising function is turned off, the denoising function by deep learning model is not applied to the image, only the sharpening function by deep learning model and the sharpening function by the sharpening filter are applied (when the sharpening filter level is 0, only the sharpening function by the deep learning model is applied in this case).
- In level 0 of sharpening filter, the sharpening function by sharpening filter is not applied to the image, only the denoising function and sharpening function by deep learning model are applied (when the denoising function is set to off, only the sharpening function by deep learning model is applied in this case). In steps 1 to 5, the sharpening function by sharpening filter is applied to the images that are already denoised and sharpened by the deep learning model. The higher the sharpening filter level, the sharper the processed image. However, since the sharpening function by sharpening filter sharpens the entire image, there is a risk of amplifying the residual artifacts included in the image as the sharpening filter level gets higher. In addition to this, the higher the sharpening filter level, the higher the image contrast compared to a normal MRI image, so it may look unnatural. Even if a low sharpening filter level is selected, a desired degree of image enhancement can be obtained depending on the user. When setting the scan item, the user should contact the customer support (support@airsmed.com) to select the desired sharpening filter level.
- The sharpening filter level is not user selectable, but our service engineer selects it.
 The sharpening filter level can be set from level 0 to 5 irrespective of the imaging scan items. The initial value of sharpening filter level is set according to the user's request. If you want to change the sharpening level, please contact customer support (support@airsmed.com).



- After image processing, the enhanced image is stored in PACS for default, and the original image is stored in PACS for optional. For enhanced Image, the phrase '_recon' is added at the end of the protocol name and series description of the DICOM tag. Users can distinguish between original images and enhanced images by looking at the DICOM tag and depending on whether there is '_recon'.
- The performance of SwiftMR both for noise reduction and sharpness increase was validated for the supported acquisition conditions. As a result of the test, it was demonstrated that SwiftMR increases the SNR of original image by 40% or greater for at least 90% of the dataset. For sharpness, SwiftMR decreases FWHM of the tissue boundaries by 0.13% (sharpening filter level 0, only the sharpening function by deep learning model is applied), 0.43% (level 1), 1.7% (level 2), 2.3% (level 3), 3.6% (level 4), 4.5% (level 5) or more for at least 90% of the dataset.
- Noise reduction performance was validated by comparing the original image and the image to which the denoising function was applied (i.e., the image to which the sharpening function level 0 was applied).
- The scope of body parts and pulse sequences (image types) supported by SwiftMR is as follows.
 - Body parts: All body parts
 - Image types: All image types
- For scan parameters such as tr, te, slice thickness, resolution, and acceleration factor, SwiftMR can be applied to SOC images and reduced scan time images. (In the case of reduced scan time image, it is applicable to (0.25T, 1.5T, 3.0T)
- Reduction of scan time up to 50% is supported.

2.8.2. About Sharpness Increase Function

- We used FWHM (Full Width Half Maximum) of structure boundaries as an index to validate the sharpness increase performance of the product. A decrease in FWHM means an increase in sharpness.
- The acceptance criteria for FWHM reduction rate for individual data was 0.13% (sharpening filter level 0, only the sharpening function by deep learning model is applied), 0.43% (level 1), 1.7% (level 2), 2.3% (level 3), 3.6% (level 4), 4.5% (level 5). Although the test group passed the criteria, the degree of sharpness increase may sometimes not be appreciable as the acceptance criteria values are not large.
- The average FWHM decrease rate and 95% CI for the test group (result from PT-04, 05 in performance test) are as follows.

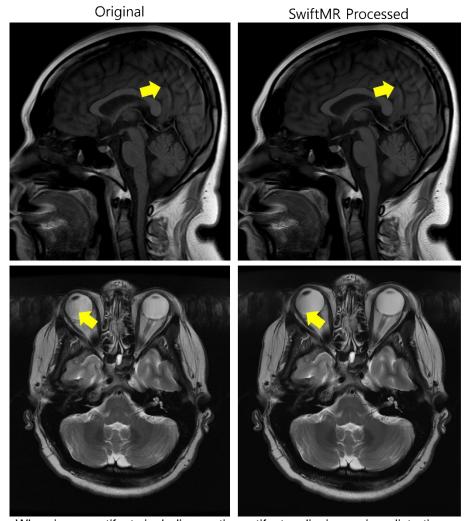
Test Group	Avg FWHM decrease rate (%)
level 0	11.91±18.18
level 1	14.85±18.46
level 2	19.77±19.42
level 3	27.43±23.07
level 4	32.23±24.49
level 5	36.20±25.66



2.8.3. Warning - Image Artifacts



If image artifacts or processing errors are found in the SwiftMR processed image, user has the option to use the original image.



When image artifacts including motion artifacts, aliasing, noise, distortion, or ghosting exist in the original image, SwiftMR handles them in the same way as normal images. Due to the denoising / sharpening function of the SwiftMR process, there is a possibility that the artifacts of the original image may be reduced or, conversely, become more distinct.

Accordingly, if an image artifact is identified in the SwiftMR processed image, the user can use the original image. Original image and processed image can be distinguished through DICOM tag, see 2.8.1 for details.

2.8.4. Warning-TOF pulse sequence



For TOF pulse sequence slice images, it may seem that the vessel detail is not completely preserved after SwiftMR processing, but this is because the resolution is improved so that the cross section of the vessel spread out in the original image is seen narrower and more clearly in the processed image (Fig. (a), (b)). According to our validation results, vessel detail does not disappear due to SwiftMR processing, and users can check this by comparing MIP images before and after processing (Fig. (c), (d)).

However, user has the option to use the original image at any time, see 2.8.1 for details.

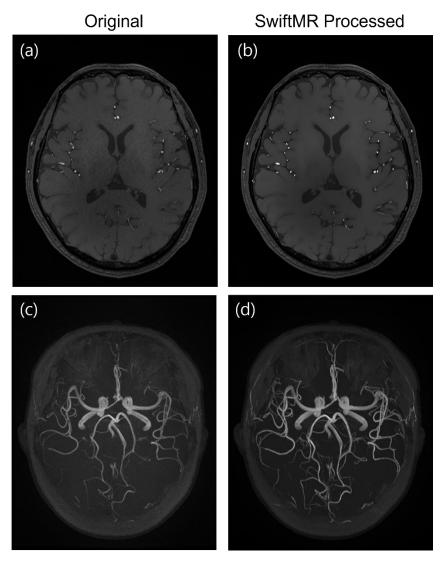


Figure. (a), (b): Slice image before and after SwiftMR processing. (c), (d): MIP image before and after SwiftMR processing

3. User Account Management

Passwords of user accounts can be changed in their profile settings (refer to Section 2.7.4).

If you want to create a new user account or modify the basic information of an existing user account, please contact Customer Support (support@airsmed.com).

4. Cybersecurity

In order to ensure the cybersecurity of medical devices, SwiftMR meets the requirements of availability, confidentiality and integrity as follows.

- Availability implies that data should be readily available to an authorized user in the required format, whenever or wherever it is required.
- Confidentiality implies that data is not disclosed to an unauthorized person and is not used for
 unauthorized purposes. Even if data is disclosed by illegal methods such as an unauthorized
 inquiry or errors during data transmission/reception, SwiftMR makes it difficult to decrypt data
 through effective encryption and only allows authorized users to access the data. It also limits the
 range of data access according to the purpose and privileges of data users.
- Integrity implies that data is not altered or destroyed in any unauthorized manner. All information
 handled by SwiftMR should be accurate and complete, and the cybersecurity system of SwiftMR
 protects data from being distorted due to forgery or falsification. In addition, SwiftMR only allows
 authorized users to amend data handled in the system, and also manages logs and change
 history.

Before installing and running SwiftMR, cybersecurity procedures must be performed according to the following guideline. The following guideline will help you protect this software from cybersecurity threats such as virus or breaches.

- Prior to installing and running SwiftMR, run a reliable anti-virus program to prevent data corruption from viruses.
- Keep your anti-virus software up-to-date.
- Activate your anti-virus software's firewall.
- When there is a new update, Users can choose whether to perform the update or not.
- When a forced update is required due to security issues or critical bugs, software update is mandatory. If not updated in a timely manner, the software may not function properly.
- When the software's cybersecurity has been compromised, AIRS Medical can disconnect the applicable network (VPN, TLS Proxy, etc.) to protect critical functionalities and data.
- The main settings required to operate SwiftMR are stored in the DICOM Control Server. Therefore, even if a problem occurs in the client application, and reinstallation is performed, the main settings are maintained for intact product operation. The database files of the DICOM Control Server are also backed up, and thus in case of an error emergence, the backed-up database files can be restored to make the product operational.
- DICOM Control Server turns off when the PC shuts down, but it automatically is executed when
 the PC is turned on again. The images that had not been processed during the time the DICOM
 Control Server was turned off, will be processed automatically once the DICOM Control Server is
 rerun again.
- Checksum validation is performed each time the SwiftMR application is executed, or when an
 update is conducted. Through this, the integrity check is performed, and if it is determined that



- there is a problem in the results, the program will automatically be terminated. In this case, please delete and reinstall the application or contact Customer Support (support@airsmed.com).
- Encryption at rest: will protect from compromise while stored therefore, all the DICOM images are stored in encrypted storage with AES-256 encryption standard algorithm according to NIST Advanced Encryption Standard
- AIRS Medical is not responsible for accidents caused by not complying with the above instructions.
- The collection, processing and use of personal information is in accordance with the Personal Information Protection Act.
 - If you have any concerns or issues related to cybersecurity, use the phone number and email address listed at the last page to contact Customer Support.

If you have any issues related to cybersecurity, please contact Customer Support (support@airsmed.com).



5. Trouble Shooting

If you have any problem that cannot be resolved through this user manual, please contact Customer Support (support@airsmed.com).

Category	Symptom	Cause & Measure
Integrity anomaly	"Integrity test failed" message shows up and SwiftMR service is not executed.	Part of the installation files may be damaged or lost. Reinstall the program or contact the manufacturer.
Network Connection	Network connection status icon is	This indicates that there is a communication problem between the hospital network and the SwiftMR server. This may cause problems in image processing, thus contact IT Manager or the manufacturer.
	Automatically logged out even when the set time for automatic logout has not elapsed.	There may be a problem with the Internet connection of the PC where the Client Application is installed. Check the Internet connection of your PC.
Worklist Synchronization	MR images that have been scanned are not imported into the SwiftMR worklist	This may be because the applicable MR Device is not connected to SwiftMR. Check the device settings at [Settings → Device].



Caution: All activity and system logs of SwiftMR are stored and archived.



6. Maintenance

Before using SwiftMR, please check to see if Daily QC has been completed successfully. When a problem is detected during use, the system will utilize the latest QC logs for conducting an abnormality check.

To fix bugs and to update image processing algorithms, it is recommended to upgrade the product at least once a year.

7. Quality Assurance

AIRS Medical Inc. warrants against defects in the design and production process during the warranty period of 1 year from the date of receipt of the product by the customer. In the event of a dispute, it will be proceeded in accordance with the Fair Trade Commission's settlements of consumer disputes.

AIRS Medical Inc. does not guarantee the following items:

- Damage caused by external factors such as accidents, misuse, fire, earthquake, etc.
- Modified products without the written consent of AIRS Medical Inc.
- Damage caused by service performed by an engineer or service provider not authorized by AIRS Medical Inc.

Before requesting a warranty service, please refer to the contents of this user manual first, and then contact us through Customer Support.

Customer Support: support@airsmed.com





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