

User Manual

Product Model A20-CL Version v3.0.4.X



SwiftMR User Manual, English VET-A20-CL-UM-US-EN R (2024-03) ©2023 AIRS Medical Inc. All rights reserved.

Revision 1

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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 .

General Information

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- The content of this User Manual is protected by copyright. If the content of this User Manual is modified or distributed without the written consent of AIRS Medical Inc., you will be liable for legal responsibilities.
- 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

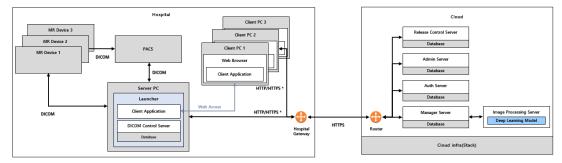
1.1. Product Overview

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 Cloud 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.

HTTP/HTTPS * : HTTP and HTTPS are used for in-hospital and external network communication, respectively

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. Target Species

- Major Species
 - Dog Canis lupus familiaris (Domestic Dog)
 - Cat Felis catus (Domestic Cat)
 - Horse Equus ferus caballus (Domestic Horse)
 - Swine Sus scrofa domesticus (Domestic Pig)
 - Cattle Bos taurus (Domestic Cattle)
- Minor Species
 - Parrots Psittaciformes (Parrots and related species)
 - Ferret Mustela putorius furo (Ferret)
 - o Rabbit Oryctolagus cuniculus (Domestic Rabbit)
 - Lion Panthera leo (Lion)
 - Tiger Panthera tigris (Tiger)
 - Rats Rattus norvegicus (Rats)
 - Mice Mus musculu (Mice)
 - Monkey Platyrrhini/ Cercopithecidae

1.4. Limitations

SwiftMR is only available in certain countries. This product meets the FDA requirements for medical device software.

1.5. Functionalities

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



Item	Launcher	Client Application		
OS	Microsoft Window 10 64 bit	N/A		
Hardware	CPU: Intel i3 and above RAM: 4GB and above Storage: 250GB available	N/A		
Web Browser	N/A	Google Chrome 92.0.4515 version or later Microsoft Edge 92 version or later		
Network	Ethernet-based Intranet/internet conr			
Monitor	N/A	1600X900 resolution with 8-bit color		

1.6. Minimum Requirements for the Software Operating Environment

1.7. 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
\triangle	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.
	e-IFU (electronic-Instructions for Use)
l	The link that directs users to this user manual is alongside the symbol.
REF	Catalog number
LOT	Lot number. Version number of the software.
	Unique Device Identifier
UDI	
Rx Only	Indicates that SwiftMR is a prescription device

1.8. Cautions



- 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.

\triangle

General Caution

Warning

- 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.
- \circ $\,$ Do not turn off the power of the PC or programs during use.
- After use, be sure to log out of the program.

1.9. 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]: 50000/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.

SwiftMR	Ubar 50 skurrer,//1 Pääsward antinenteenees
Password	Parameter and the second

- Login: Enter ID and password provided by AIRS Medical and then click SIGN IN. When login succeeds, the main page of SwiftMR will appear.
- **Logout:** You can log out from SwiftMR to prevent unauthorized access by clicking the Logout button (⊇ Logout). When logout 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 (<u>Download user manual</u>).

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

SwiftMR

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.

Automated Logout	
Timed-out due to inactivity.	
	ОК

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.

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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	A Profile	User Profile			
		Settings	Software settings			
		⑦ S/W Info	Software information			

SwiftMR

		➔ 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
			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	Series number	Sequence number of the series within the study
· ·	Table		selected from the study table
		Series Date	Scan date of each series
		Series Description	Detailed description of the scanned sequences for
		н ^т	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	Series Name: Processed sequence name
			Device: MRI equipment name images are
			stored in
			 DICOM AE: PACS name images are stored



			 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	() Expiration date	Contract End Date
	Status Bar	Usage	Current Usage and Maximum Usage

Caution: The network connection status icon shows the connection between the ∕!∖ institution's network and the cloud 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 IT Manager or the manufacturer. Caution: Worklist displays only the acquired MR images from the selected MR 尒 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 T 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.

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 follow

• Ima	age 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:

Toast Message	Description
Chrome ··· × SwiftMR - Completed (30 / 30) 2023-05-15 19:29 MRI-BRAIN siemensGeneral2d 192.168.40.22:50000	Image processing complete.
Chrome ··· × SwiftMR - Process Error 2023-05-15 19:28 Error Detail Code : ERR_PROCESS Message: ("Message":"failed to 192.168.40.24:50000 닫기	Image processing failed.
Automated Logout Timed-out due to inactivity. OK	Automated logout.
Note Your license has expired. Contact AIRS Medical to re new your license. OK	End Date and Usage Expiration

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 (Settings). 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.

Settings		×
General	Auto Logout	
QC	Log out after 10 minutes 💌 of inactivity	
Appearance		SAVE CHANGES
Profile		
Device		
ScanItem		
Info		

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.
 - **Daily QC:** User can check how the QC time is set.
 - **QC Logs:** User can view the notifications regarding QC results.

Setting		×
General QC Appearance Profile Device ScanItem Info	QC Status Success Last executed: 2023-11-28 01:00:00 Daily QC Execute quality check automatically at selected time and days. Time 유전 12:00 ⓒ Days 5 에 T 및 TH F 5A	
	QC Logs • ManagerServer: Success, RabbitMq: Success, Redis: Success 2023-11-28 01:00:00 • ManagerServer: Success, RabbitMq: Success, Redis: Success 2023-11-27 01:00:00 • ManagerServer: Success, RabbitMq: Success, Redis: Success 2023-11-24 01:00:00	
	SAVE CHAN	GES

2.7.3. Appearance Settings

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

Settings						×
General	Font					
QC	Time	○ Small	O Medium	🔘 Large		
Appearance	Weight	🔘 Normal	O Bold			
Profile		S	wiftMR Sample	Text		
Device						
ScanItem	Table					
Info	Column	🛃 Study Date		🗹 Requested Pr	ocedure	
		🗹 Patient ID		Study Descrip	otion	
		🗹 Patient Nan	ne	🛂 Number of Se	eries	
		🗆 Sex		🗹 Number of To		
		🛃 Age		🛃 Accession Nu	mber	
		🗹 Date of Birt	h			
						SAVE CHANGES

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 (<u>Change Password</u>) and change the user's password from the password change page.
- After establishing the settings, click on the SAVE CHANGES button.

Settings			×
General QC Appearance Profile Device ScanItem Info	Basic Info Name ID E-mail Created at Description Change Passw Change P		
Change Pas The current passwo been changed for 6 New Password Repeat New Password Sign out from other CHANGE PASSWO	rd is a default passw months . ord	word or has not	

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 (<u>support@airsmed.com</u>) to modify device settings.

Setting		×
General QC	C Enter device name	
Appearance	Z Device Name Vendor DICOM AE Description	
Profile	DEFAULT Unspecified (Default) Null serial number device	
Device	MR Device 1 Siemens defaultPACS MR Device 1	
ScanItem	MR Device 2 GE defaultPACS MR Device 2	
Info	MR Device 3 Philips defaultPACS MR Device 3	
	SAVE CH	IANGES

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 (support@airsmed.com) to modify scan item settings.

Setting				×
General QC	Select an MR Device Select an MR device to manage scan ltem .			
Appearance	DEFAULT	Unspecified	No ScanItems	>
Profile	MR Device 1	Siemens	4 ScanItems	>
Device	MR Device 2	GE	No ScanItems	>
ScanItem	MR Device 3	Philips	No ScanItems	>
Info				

Setting			×
General	Q Enter scan item name, model		
QC	Selected Device: MR Device 1 (Siemens)		← BACK TO LIST
Appearance	ScanItem Name	Swift Model	Sharpness
Profile	SAG_T2_se_Swift	Auto	0
Device	SAG_T1_se_Swift	Auto	0
ScanItem	AX_T1_tse_Swift	Auto	0
Info	AX_T2_tse_Swift	Auto	0



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** ($^{\textcircled{O} S/W Info}$) button or from the Info tab of Settings.

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

Settings		×
General		
QC	SwiftMR	
Appearance	Software	
Profile	Version v3.0.4.0	
Device		
ScanItem	User Manual	
Info	The user manual for SwiftMR is provided in electronic form via the link above.	
	To view the user manuals, PDF reader program is required.	
	en.airsmed.com/eifu	
	License info	
	Belongs to AIRS Clinic (ABC Gwanak)	
	Contractual 2023. 08. 01 ~ 2026. 10. 01	
	Term	
	Manufactured by	
	Full Name AIRS Medical Inc. E-mail support@airsmed.com	
	E nun Supporteursneuton	
	SwiftMR Radiology DICOM image processing application software	
Settings		×
General	License info	
QC	Belongs to AIRS Clinic (ABC Gwanak)	
Appearance	Contractual 2023. 08. 01 ~ 2026. 10. 01 Term	
Profile		
Device	Manufactured by	
	Full Name AIRS Medical Inc.	
ScanItem	Full Name AIRS Medical Inc. E-mail support@airsmed.com	
ScanItem		
	E-mail support@airsmed.com SwiftMR Radiology DICOM image processing application software	
	E-mail support@airsmed.com SwiftMR Radiology DICOM image processing application software (GMDN: 57812)	
	E-mail support@airsmed.com SwiftMR Radiology DICOM image processing application software	
	E-mail support@airsmed.com SwiftMR Radiology DICOM image processing application software (GMDN: 57812)	
	E-mail support@airsmed.com SwiftMR Radiology DICOM image processing application software (GMDN: 57812) REF A20-CL LOT v3.0.4.0 Rx Only UDI (01)08800124700099(10)v3.0.4.0 Name : AIRS Medical Inc.	
	E-mail support@airsmed.com SwiftMR Radiology DICOM image processing application software (GMDN: 57812) REF A20-CL LOT v3.0.4.0 Rx Only UDI (01)08800124700099(10)v3.0.4.0	
	E-mail support@airsmed.com SwiftMR Radiology DICOM image processing application software (GMDN: 57812) REF A20-CL LOT v3.0.4.0 REF A20-CL LOT v3.0.4.0 Marre: AIRS Medical Inc. Address: 1314F, Keungil Tower, 223. Teheran-ro	
	E-mail support@airsmed.com SwiftMR Radiology DICOM image processing application software (GMDN: 57812) REF A20-CL LOT v3.0.4.0 REF A20-CL LOT v3.0.4.0 Marre: AIRS Medical Inc. Address: 1314F, Keungil Tower, 223. Teheran-ro	
	E-mail support@airsmed.com SwiftMR Radiology DICOM image processing application software (GMDN: 57812) REF A20-CL LOT v3.0.4.0 REF A20-CL LOT v3.0.4.0 Marre: AIRS Medical Inc. Address: 1314F, Keungil Tower, 223. Teheran-ro	



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 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 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 (ie, the image to which the sharpening function level 0 was applied).
- The scope of scanner models supported by SwiftMR is as follows.
 - Scanner manufacturers: vendor neutral
 - o Field Strength: 3.0T, 1.5T, 0.6T, 0.25T
- The scope of body parts and 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.

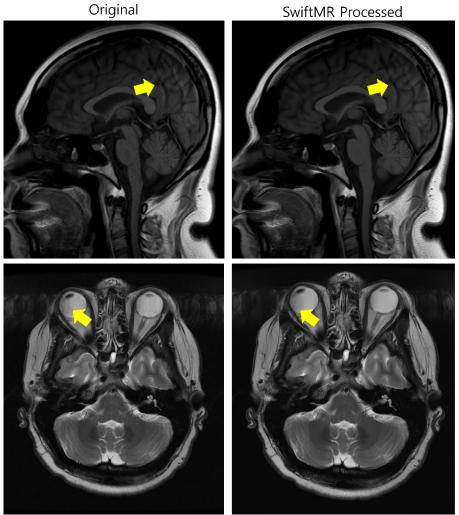
Test Group	Avg FWHM decrease rate (%)
level 0	11.91±18.18
level 1	14.85±18.46
level 2	19.77±19.42
level 3	27.43±23.07
level 4	32.23±24.49
level 5	36.20±25.66



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.

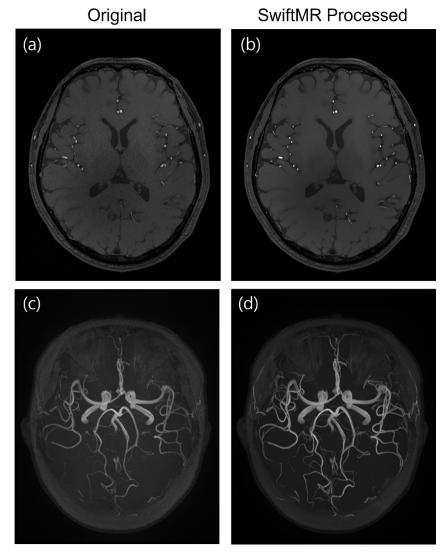


Figure. (a), (b): Slice image before and after SwiftMR processing. (c), (d): MIP image before and after SwiftMR processing



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 (<u>support@airsmed.com</u>).

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.
- Confirm that the latest security updates are applied to your OS.
- Activate your PC's firewall. Windows 10 or above is equipped with a built-in firewall.
- SwiftMR has the highest possible security settings selected by default.
- 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.
- Even if a temporary error occurs while using the Client Application, image processing will still operate normally, due to the functioning server programs. 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 once they are resent to the server. In case of the server programs, uninterrupted operation is guaranteed via automatic restart or executing multiple instances during server shut down.

- 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).
- AIRS Medical is not responsible for accidents caused by not complying with the above instructions.

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 (<u>support@airsmed.com</u>).

5. Trouble Shooting

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

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 cloud 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 \rightarrow 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.

• In the case of the Cloud type model (A20-CL), all updates and upgrades are performed automatically on the server, so you can utilize the most up-to-date performance.

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: <u>support@airsmed.com</u>



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