RELEASE NOTES

Hybrid Viewer

Version 7.0.2

HERMES MEDICAL SOLUTIONS

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These Release Notes inform users of news and improvements in Hybrid Viewer 7.0.2, as well as any known issues to be aware of.

This is an electronic document, a copy of which can be downloaded from www.hermesmedical.com/ifu. Hard copies of Instructions for Use, System Environment Requirements, and Release Notes are available for free (as many as number of purchased licenses) upon request.

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1 INTRODUCTION

This document contains the public Release Notes for Hybrid Viewer 7.0.2. It provides a list of novel features, enhancements and problem fixes since last release, 6.1.4.

The document also includes known issues. Every user must be familiar with these known issues. Contact the manufacturer for any questions about the content.

1.1 Associated documentation

- P31-104 Instructions For Use Hybrid Viewer7.0.2 Rev.1
- PC-007 System Environment Requirements, applicable revision can be found at www.hermesmedical.com/ifu.

The Instructions For Use contains the necessary basic information to configure the application at your own preferences.

A user guidance, intended to assist users in using the software, is available from the Help function in the software itself.

Warning messages are now listed in both the Instructions For Use and the user guidance. The warning messages clearly describe intended users, limitations in the software and the risks of making changes to the software.

1.2 Complaints and serious incidents

Report incidents and errors to our support, see *Contact Information*.

Any serious incident that has occurred in relation to the device must be reported to the manufacturer.

Depending on applicable regulations, incidents may also need to be reported to national authorities. For the European Union, serious incidents must be reported to the competent authority of the European Union Member State in which the user and/or patient is established.

Hermes Medical Solutions welcomes feedback from readers of this manual, please report any errors in content or typography and suggestions for improvements to our support, see *Contact Information*.

2 NEWS AND IMPROVEMENTS

This release ensures compatibility with new camera models and that you are able to use your equipment at full capacity with matching robust processing.

2.1 New Features implemented in Hybrid Viewer 7.0.2

These are the major novel features introduced in this release:

- DMSA: now supports automatic region creation, motion correction for dynamic studies, and support for SPECT studies
- Renogram: Geometric mean analysis for post micturition dynamics
- Renogram: Combine tab now supports separate markers for each study
- Gastric Emptying: Option to create an image layout for planar studies
- Gastric Emptying: Extra Nottingham University Hospital calculations
- Organ Dosimetry: Option to read regions drawn in Affinity
- Pseudo planar lung images can now be generated from a tomographic acquisition study without user interaction
- Create screencap without patient information while still maintaining name on screen
- Support for reading and writing DICOM SEG files for PT studies
- Neurology and Cardiology studies rotated during reconstruction with Hybrid Recon are now correctly displayed
- QC: Calculation of Efficiency factor added to QC tools
- Gall Bladder: Additional markers and I-123 decay correction
- Renogram: Geometric mean analysis for post micturition dynamics renal studies
- Motion Correction: Possibility to save both dual isotope studies
- Option to remove patient information in screen captures while still maintaining name on screen
- Various improvements to comply with the new MDR requirements

2.2 Problems fixed and minor enhancements in version 7.0.2

There are several problems fixed and minor enhancements in this release. A selection of issues are listed below:

- Renogram: New option to always skip last frame for result calculations
- Organ Dosimetry: Ability to delete ROIs which are part of VOIs
- Salivary: Uptake and Relative Uptake Ratios now calculated on first dynamic of dual phase study
- Liver Remnant: Extra masking volumes added and masking problems fixed
- BRASS: Removed option to save with Compatibility set to "No". Various problems fixed.
- Thyroid: Option to display thyroid image with and without ROIs and marker points
- Various improvements and fixes to maintain compatibility with latest acquisition cameras
- New functionality for Edit feature to speed up multiple Region edits
- Improve some warning messages issued by the application
- Several updates in the User Handbooks
- SUV values displayed using sphere triangulation now only displayed for the current orientation
- DICOM print and movie labels now honoured
- RenalCurve option removed

For a full list of resolved reported issues, see Appendix 1.

3 KNOWN ISSUES

There are no known issues related to patient safety in Hybrid Viewer.

Other known issues:

SF Case Number	Summary	Components	Affects versions
50856	Double ROIs in Gastric emptying when loaded from result		7.0
48660	Duplex Kidney result, Percentage Contribution of Summed Kidneys is not working if only 1 duplex kidney	DMSA Analysis	7.0
57991	Asterisk confirming background subtraction is missing in Duplex Results table	DMSA Analysis	7.0, 6.1.4
58248	Cardiac splash not detecting 2 datasets acquired on the same day	Cardiac	7.0, 6.1.4
53933	Cardiac studies with same FOR UID (GE MyoSpect 540) cannot be unlocked	Cardiac	6.1.4
53679	SeHCAT calculation proceeds as normal when different acquisition durations are used	SeHCAT	6.1.4
53516	Multiple splash widget on the same tab issue.	Dynamic Splash	6.1.4
53508	Dynamic SPECT DICOM for GE StarGuide is not supported		6.1.4
53437	3 group dynamic data saved as 2 group after motion correction	Motion Correction	6.1.4
53128	New option to sum frames in GBEF should be set OFF by default	Gallbladder Analysis	6.1.4
51659	Remnant VOI not constrained by edited Liver VOI if edit increases the size of the Liver	Liver Remnant Function	6.1.4
49545	Roi Edit minor bug		6.1.4
49532	Empty XML files/ Hybrid Dosimetry not recognizing the study and XML	Dosimetry	6.1.4
49479	Quick Print on 8Fusion protocol only take first screen (4 study)	Printing	6.1.4
48627	2D ROI value not displayed beside ROI with 3D data	ROI / VOI	6.1.4
49698	Label issue in SC using "commonSeriesUidForPrints"	Printing	6.1.3
47701	PT study saved after rigid registration with Compatibility set to yes cannot be loaded	Sync	6.1.3
47390	Slice thickness setting should follow when opening a full-screen pop-out window, also scrolling issue		6.1.3
47188	Error message appear when loading Siemens DICOM Dynamic multi-pass PET data		6.1.3
47059	SUV cannot be calculated for dynamic acquisition that started before injection.		6.1.3
43411	Screen capture set to modality type OT instead of SC	Printing	6.1.3
46175	When using Triangulation Sphere, or quick VOI sphere, SUV value are different depending of the view		6.1.2
43579	Pre/Post tab VOI names incorrectly populated - VOI number used instead	ROI / VOI	6.1

SF Case Number	Summary	Components	Affects versions
42972	Radiopharmaceutical is not always read from study header in Dosimetry	Dosimetry	6.1
42081	When changing the weight of an organ (or lesion) in Dosimetry, it will not be correctly stated in the final report.	Dosimetry	6.1
37193	Don't minimize window while loading		6, 5.0.2
37721	Dosimetry Application crashing frequently	Dosimetry	5.1
35353	BRASS with no template and MR study produces incorrect isocontour	Brass	5.1
34958	Saving cardiac PT study causes overflow		5.1
33920	When using Dark theme, printer header is still white when making a print		5.1
39312	Unable to apply the slope relative function analysis on a 2 phase dynamic dataset	Renogram	5

4 CONTACT INFORMATION

Contact any of the addresses below for service, support or if you have any other questions.

4.1 Manufacturer contact information

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4.2 Representatives

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5 APPENDIX 1 - RESOLVED REPORTED ISSUES

5.1 Problems fixed

SF Case Number	Summary	Components
18881	Triangulate click on MIP does not always show the correct position in Hybrid Viewer	Triangulation
19304	Renaming in 'Change Selection' should be disabled for Dynamic studies	
25965	Rotating 2 registered studies causes loss of synchronisation	Sync
29926	'Dot' Marker bug in HV Macro not working as expected	Macro
30307, 31173	Get message about urinary bladder residence time being larger than WBD residence time when plotting urinary bladder curve	Dosimetry
30660	Viewport doesn't update when using triangulation in quick VOI mode	QuickRoi
30851	Specific Ratio and Zscore plot not updated when click on 'Apply Camera Correction'	Brass
31006	Using Resize to reference during Sync with Rigid registration cuts the NM/PT volume	Sync
31009	Reports saved as PNG instead of DICOM when 'Automatic Save Report' is selected	Brass
31010	Append 'deviation' to the existing series description when saving the Deviation map	Brass
31290	2 bugs when saving from Sync window in Motion correction	Motion Correction
32184, 40768	Studies saved with Compatibility set to No are not correctly aligned	Brass
32404	Option 'independent contour per bin' causes wrong behaviour when multiple dynamic studies loaded	Renogram
34090	Organ Dosimetry is dependent on scan length for count rate calculation	Dosimetry
35365	Modify Color in Print to absolute does not work with protocols which have 1 ScreenCapture widget	
36103	Actual frame duration is saved incorrectly after translation or rotation	DICOM
36659	Isocountour Datscan Earl database not displayed on Splash tab (if set as default)	Brass
38094	Renal curve launches three times when combined dynamic series are input	Renogram
38123	Markers are shared in Renogram Compare	Renogram
39337	Gates GFR analysis is affected by the curve depth correction settings	Renogram
39384, 41504	Statics appear cut off after semi-automatic alignment	Sync
40477	3D Quick VOI Sphere bug in full Screen mode	
40525	Transit study string matching	Oesophageal

SF Case Number	Summary	Components
		Analysis
41247	Toolbar disappears from Full Screen window	QuickRoi
42894	Normalization factor text is unreadable in Parathyroid subtraction application when CT loaded	Parathyroid Analysis
43967	HV not displaying all PET statistics files	
44017	When using Combine in renogram, last frame value is not loaded back on combine tab	
44189	Quick Print should print current layout even if no layout has Print ticked in user properties Report tab	Brass
44529	GBEF: Meal and Post Meal markers do not stay 'turned on' after save	Gallbladder Analysis
48107	Gallbladder EF: edited ROI name is not honoured in plot legend	Gallbladder Analysis
48208	The title of the renogram graph always includes 'Vascular Background Subtraction' even when vascular subtraction is off	Renogram
48297	Post Miction are not aligned in result file when 2 det dynamic is loaded (but only post used)	
48400	Crash with measure tool when delete on Screencap tab	
48432	Gastric emptying: no points are displayed on plot when 'None' fit is selected; results are not decay corrected	Gastric Analysis
48445	SUV retention on viewport when using Triangulation Sphere	
48469, 48496, 48497	Issue with Dataset using new GE collimator and half time acquisition	
48623	Honor Right/left detecting a frame with the label 'Lantio' as being Anterior and labelling accordingly	
49527	Organ Dosimetry: Unable to delete ROIs which are part of VOIs	Dosimetry
49954	Parathyroid Subtraction of Veriton SPECT data	Parathyroid Analysis
50015	Red Z score threshold change depending of tab	Brass
50470	Dose is displayed wrong in overlay in HybridViewer	
51255	Normal ranges from another application appear with string matcher	Heart Mediastinum
51435	When using synchronize option with rotation and/or scaling the resulting images are shifted	Brass
51754	Duplicate ROIs using SUV threshold on Biograph64 440x440 matrix size	ROI / VOI
51932	Liver Remnant split function masking not working correctly	Liver Remnant Function
51939	Crash when closing motion correction with result file and post miction	
47461	Not possible to save image series with non-dicom standardization for dicom tag PatientAge back to GOLD	
55918	Hybrid Viewer Dosimetry crashing	Dosimetry
54639	Artefacts in CDMSA functional image	DMSA Classic Analysis with

SF Case Number	Summary	Components
		DB
59227	BRASS 'set 2' in properties looks to set10 in brmodel file	Brass
58859	Patient orientation labels are wrong in Parathyroid tab of SPECT parathyroid subtraction	Parathyroid Analysis
56194, 57904	Load Veriton extracted planar images	DICOM

5.2 Enhancements

SF Case Number	Summary	Components
10623, 16242	Renal · manual entry of Diuretic administration time in Pt Info	Renogram
17458	New option for screen print	Thyroid Analysis
19378	GFR and ERPF Arroyo calculations are not valid for Transplant kidneys due to incorrect depth correction	Renogram
30056	Small bowel transit imaging time display	Gastric Analysis
30250	Ability to save additional studies from the Moco window	Motion Correction
31822	Option to always skip last frame for result calculation	Renogram
34205	Add Calculation of Efficiency factor to QC tools	Uniformity
34800	Lung Quant Results (requesting K count option as in older HV version)	Lung Quantification
34960	Automatic ROI creation for DMSA	DMSA Analysis
36111, 19709	DMSA SPECT analysis	DMSA Analysis
36681	Liver Remnant: Extra masking VOIs needed	Liver Remnant Function
36993	Option to duplicate thyroid image to show without ROIs	Thyroid Analysis
37272	Include I·123 decay correction option for Gall bladder ejection fraction	Gallbladder Analysis
37669, 42869	Request for no patient info burned into screen capture for generic display protocols	Printing
38434	Organ Dosimetry: accept regions drawn in Affinity or created from auto segmentation	Dosimetry
39390, 48293	HV BRASS Datscan display: show brmodel3 and brmodel5 results + remove 'normal' title from plot	Brass
40818	UI checkbox for voxel display interpolation bicubic (·shader) or trilinear to remove artefact	
42851	HV Lung · Cannot do direct import of the previous version file for VENT/PERF string matching	LungVQ
42977	Allow the ·user function in Hybrid Viewer for specific user property	All
43072	Hide Output window when saving MR from Hybrid Viewer	Sync
43273	Add an option in the common xml to hide the patient name on Title bar	All

SF Case Number	Summary	Components
43965	Possibility to change default layout of gastric emptying (static)	Gastric Analysis
44936	HybridViewer should support dicom compliant ROI Segmentation files	DICOM
45295	Add Metz fourier/cm filter as a display filter in FUGA application.	Fuga
45676	Option to remove patient identifiers in screen captures	Printing
46850, 50629	Lung Pseudo Planar should be created automatically similar to the movie option.	
46946	Renogram Curve 0 doesn't match perfusion time 0 curve	Renogram
47241	Geometric mean analysis for post mict dynamics in renogram application	Renogram
58471	Improve description of Flow string matching page 41 of Renogram user manual	Renogram
58063	Update the user manual to make options clear when 2 Renogram Graphs are configured	Renogram