

HERMIA



# RELEASE NOTES

## Hybrid Viewer

Version 7.1.1



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These Release Notes inform users of news and improvements in Hybrid Viewer 7.1.1, as well as any known issues to be aware of.

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# 1 INTRODUCTION

This document contains the public Release Notes for Hybrid Viewer 7.1.1. 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

- P31-162 Instructions For Use Hybrid Viewer7.1.1 Rev.2
- PC-007 System Environment Requirements, applicable revision can be found at [www.hermesmedical.com/ifu](http://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

These are the new 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 New Features implemented in Hybrid Viewer 7.1

These are the new features introduced in this release:

- Licensing support for syngo.via/OpenApps integration added.

### 2.3 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

## **2.4 Problems fixed and minor enhancements in version 7.1.1**

No problems were fixed, and no enhancements were made in this version.

### 3 KNOWN ISSUES

There are no known issues related to patient safety in Hybrid Viewer. Below is a selection of open known issues relevant to the end users. All issues have been risk analyzed and have been classified as acceptable.

#### General

- Changing colormap for fused studies is not working as expected for dosemaps
- Missing pro.specta info in mappings.xml file
- Phase Delay (0054|0036) is not respected in dynamic application
- Two splash widgets are displayed one on top of each other on a dynamic tab
- SUV cannot be calculated for dynamic acquisition that started before injection
- Error message appear when loading Siemens DICOM Dynamic multi-pass PET data
- 2D ROI value not displayed beside ROI with 3D data
- Alignment is wrong when using static Fusion with double isotope.
- SUV different in triangulation sphere depending of TCS view for same sphere
- Pre/post tab of Hybrid Viewer, VOIs are grouped by number rather than by name, causing some incorrect names to be presented.

#### Saving

- Saving cardiac PT study causes overflow
- PT study saved after rigid registration with Compatibility set to yes cannot be loaded
- Label issue in SC using "commonSeriesUidForPrints"
- 3 group dynamic data saved as 2 group after motion correction

#### Printing

- Screen capture set to modality type OT instead of SC
- Quick Print with 8Fusion protocol only prints first screen
- Mediso ISO\_IR 192 files corrupts some characters in patient name when saving prints

#### NM Processing Workflows

##### Renogram

- Missing "Geometric Mean" annotation in Combined tab of Renogram workflow
- Some values in Renogram results table are NA in some layout pages
- Subtraction slider in parathyroid doesn't work if you use mouse wheel or click on bar
- Renogram2 graph does not honour the option 'Show all values of a dynamic PM' but instead displays a single time point for the summed PM images
- When loading one dynamic renogram + a dynamic post-mict with automatic kidney ROIs on, the ROIs do not disappear when motion correction is performed on the main cinematic.
- Renogram application: Patlak-values are not removed from result table when Blood ROI is removed
- Values of dynamic post-mict are not plotted for Renogram 2
- Fixed y-axis values in Renogram is not honoured
- GFR results table not displayed on flow tab
- Automatic regions are not deleted after performing motion correction on renogram
- Renogram post mict statics sync: ROIs move with image during sync when independent contour per bin is active
- Unable to apply the slope relative function analysis on a 2 phase dynamic dataset
- Activity is not displayed correctly in for studies saved from Hybrid Recon Thyroid and Renal(GFR,Arroyo,Bubeck) application

- Patlak-values are not removed from result table when Blood ROI is removed

### DMSA

- DMSA Duplex Table - missing asterisk (\*) to indicate background subtraction on Ant/Post/Geomean results titles
- Duplex Kidney result, Percentage Contribution of Summed Kidneys is not working if only 1 duplex kidney
- Pseudoplanar DMSA scan from StarGuide is not opened correctly in Classic DMSA. The manual does not state that the pixel and matrix size of the DMSA study must be square

### Gastric Emptying

- Gastric emptying tab not displaying if static and dynamic are ticked

### GBEF

- Option to sum frames in GBEF should be set OFF by default

### SeHCAT

- SeHCAT 8 day analysis not working
- SeHCAT calculation proceeds as normal with non-standard acquisition protocol is used

### Liver Remnant

- Remnant VOI not constrained by edited Liver VOI if edit increases the size of the Liver
- Liver Remnant Calculation is affected with SUV Spect after using masking on gallbladder

### Cardiac Splash

- Cardiac studies with same FOR UID (GE MyoSpect 540) cannot be unlocked
- Cardiac splash not detecting 2 datasets acquired on the same day

### Thyroid

- Activity is not displayed correctly in for studies saved from Hybrid Recon Thyroid and Renal(GFR,Arroyo,Bubeck) application
- Lines on Thyroid ROI when increasing size

### Dosimetry

- Radiopharmaceutical is not always read from study header in Dosimetry
- If the "pseudo planar" is stored when the co-registered data is stored and then reloaded together with the co-registered data, no ROIs from the xml are displayed
- When changing the weight of an organ (or lesion) in Dosimetry, it will not be correctly stated in the final report.
- Copy ROIs/VOIs button in HV Dosimetry should not re-copy regions which are already present on all time points
- Not able to load an created XML filer with the reconstructed study when a long label used for reconstructed study

### BRASS

- BRASS with no template and MR study produces incorrect isocontour
- BRASS results incorrect when string matching is used with some single study protocols
- BRASS loads same study twice when string matching is not saved beforehand

### Lung V/Q

- Lung VQ ratio does not account for Diff number of projections in Vent and Perf when performing subtraction/corrections
- Limits disappear on Cor/Sag in V-Splash



## 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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