

SecurView®

Breast Imaging Workstation



Release Notes

MAN-07277 Revision 001

HOLOGIC®

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Breast Imaging Workstation

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For Software Version 11.0

Part Number MAN-07277

Revision 001

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Table of Contents

1. Introduction	1
2. Notes for Version 11.0.....	1
2.1. New Features in 11.0	1
2.1.1. Tomosynthesis Scrolling Performance Improvements.....	1
2.1.2. Synchronized Cine Position in Unlinked Viewports	1
2.1.3. Hologic 3D CAD Results Display (Not available in all markets)	1
2.1.4. Automatic Worklist Enhancements	2
2.1.5. Ultrasound Image Display Enhancements	2
2.1.6. Export to Media With Compression	2
2.1.7. Collect Data for Unifi Analytics	3
2.1.8. Contrast Enhanced Biopsy Combinations	3
2.1.9. Suspend and Review Warning	3
2.2. Problems Corrected in Version 11.0	3
2.2.1. Patient List Sorting after Local Search	3
2.2.2. Link Tile Possible With Default Linking Properties Disabled.....	3
2.2.3. Window/Level Not Linked Automatically	3
2.2.4. Predefined Hanging Reset	3
2.2.5. Stalled Image Preparation Restarted.....	3
2.2.6. Display of Rotated Tomosynthesis Reconstructed Slices	3
2.3. Known Issues in Version 11.0.....	4
2.3.1. Compressed Ultrasound Color Images Displayed With Incorrect Colors.....	4
2.3.2. Annotations Not Sent on Secondary Capture Images	4
2.3.3. Ultrasound Measurement Calculations.....	4
2.3.4. Annotations Displayed Incorrectly on Reduced Resolution Center Slice of SCO Image4	

1. Introduction

The Release Notes provide a listing of New Features, Problems Corrected, and Known Issues in the most recent release of the SecurView® DX/RT workstation software. The 11.0 releases include:

Version	Release Date
11.0	July 2020

Version 11.0 requires the Windows® 10 (standalone, client) or Windows Server 2016 (manager) operating system. Windows 7 and Windows Server 2008 operating systems are not supported.

2. Notes for Version 11.0

2.1. New Features in 11.0

2.1.1. Tomosynthesis Scrolling Performance Improvements

Tomosynthesis scrolling on the first and second scroll is improved by using a more efficient strategy to load the slices into memory. The first scroll is also smoother in ReportFlow steps that include automatic cine with a configurable one second delay prior to starting cine.

Tomosynthesis scrolling performance on the second scroll is improved by up to a factor of two by changing the background of the Tomo Slider from transparent to black while scrolling through slices. This setting is configurable per workstation and allows the cine speed maximum to be increased to more than 30 frames per second.

2.1.2. Synchronized Cine Position in Unlinked Viewports

When cine mode is started manually in multiple unlinked viewports, the starting position is synchronized such that approximately the same position in the breast is maintained simultaneously in each viewport. The cine position for each viewport with cine already in progress is set to match the starting position of the viewport where cine mode is started last.

You can disable synchronization of cine for unlinked viewports with a new user preference.

2.1.3. Hologic 3D CAD Results Display (Not available in all markets)

CAD marks from Hologic Genius AI™ Detection that analyze Hologic tomosynthesis reconstructed slices can be displayed on the referenced reconstructed slices or SmartSlices. The Tomo Slider indicates which slices have 3D CAD marks, with highlighted display of CAD marks on the referenced slice and faded display on a few surrounding slices. Whether or not to display CAD score and case score with 3D CAD marks is configurable as a system setting.

Genius AI Detection results are displayed using Hologic RightOn™, PeerView™ and EmphaSize™ CAD marks. The existing CAD mark user preferences apply to both ImageChecker® CAD and Genius AI Detection results.

The CAD marks can be projected onto corresponding conventional 2D images, synthesized 2D images or SmartSlices of the same view and tomosynthesis acquisition. Projection of CAD marks is configurable as a system setting.

The Genius AI Detection case level results CAD Complexity, Reading Priority, and Read Time Indicator are included in the patient list.

2.1.4. Automatic Worklist Enhancements

Automatic worklists do not open eligible patients that are locked by another user in a cluster environment. If eligible cluster-locked patients are unlocked before the user reaches the end of the worklist and another user has not marked the patients as Read, these patients are added to the end of the worklist.

By default Screening and Diagnostic patients are combined in a single automatic worklist. This setting cannot be used if different reading methods (single versus double reading) are used for Screening and Diagnostic studies.

The Undefined study category is no longer used. If Procedure Identification does not identify a study as Screening or Diagnostic, additional logic is applied. All studies that are not identified as Diagnostic are assigned as Screening. For example, a study is identified as Diagnostic if it contains images of modality other than MG, or MG images that are not considered screening views.

You may use Genius AI Detection Read Time Indicator values Low, Medium, and High to customize automatic screening worklists. A new user preference allows configuration of a user defined Read Time Mix.

2.1.5. Ultrasound Image Display Enhancements

Performance improvements were made to preparation of large color multi-frame ultrasound image sets for Mammography Viewer display.

Color images are displayed with color in the Mammography Viewer if a high-resolution color display is connected.

Single-frame ultrasound images of the same laterality within a study are combined under one thumbnail image and sorted by acquisition time, oldest to newest. Additional sorting by series number and instance number in ascending order is applied if necessary. Single-frame ultrasound thumbnail images are labeled "US." Multi-frame ultrasound thumbnail images are labeled "US-MF."

A new horizontal slider is displayed to allow manual scrolling through multiple single-frame ultrasound images stacked within a tile or a multi-frame ultrasound image set. You may also use the keypad scroll wheel. A cine button is included for use with a multi-frame ultrasound image set.

2.1.6. Export to Media With Compression

All grayscale images that are exported to media as a DICOM file compress the pixel data using JPEG Lossless Compression.

2.1.7. Collect Data for Unifi Analytics

A licensed option to collect SecurView application data to provide to Unifi™ Analytics in an XML file produced daily at a configurable time, with anonymized patient information. The recorded events include receipt of DICOM objects, image preparation start and finish, image distribution in a cluster, and patient study user interaction such as open and close.

2.1.8. Contrast Enhanced Biopsy Combinations

Contrast enhanced low energy and subtraction images for a biopsy view are combined in one thumbnail image based on the biopsy view, where the minus and plus images of a paired biopsy view are in separate thumbnail images.

2.1.9. Suspend and Review Warning

A new user preference can be enabled to inform you when returning to an automatic worklist after Suspend and Review that the patient order in the worklist may have changed such that a patient that is not yet reviewed precedes the currently open patient.

2.2. Problems Corrected in Version 11.0

2.2.1. Patient List Sorting after Local Search

Patients that match the search criteria of a local search are grouped at the top of the patient list and now remain there until the user performs a new local search, the user changes patient list sorting manually, the patient list is reset, or the user logs out.

2.2.2. Link Tile Possible With Default Linking Properties Disabled

When one of the User Preferences > Tools and Overlays > Default Linking Properties settings is disabled, it is now possible to link tiles manually using Link Tile on the pie menu.

2.2.3. Window/Level Not Linked Automatically

Window/Level is no longer synchronized automatically by default in linked viewports. You can still activate Window/Level synchronization with a user preference.

2.2.4. Predefined Hanging Reset

After you select a predefined hanging button, if you perform a different action such as dragging and dropping an image into a viewport, the predefined hanging button is reset so the next selection displays current images.

2.2.5. Stalled Image Preparation Restarted

When the SecurView application is shut down while preparing image data, in-process image preparation jobs are now detected and restarted when the SecurView application is restarted.

2.2.6. Display of Rotated Tomosynthesis Reconstructed Slices

Reconstructed slices received as DICOM Breast Tomosynthesis Image with pixel data oriented such that the chest wall is at the top or bottom are now accepted and displayed.

2.3. Known Issues in Version 11.0

2.3.1. Compressed Ultrasound Color Images Displayed With Incorrect Colors

Ultrasound YBR_FULL color images received using JPEG compression are displayed with incorrect colors. To resolve this problem, disable compression transfer syntaxes when receiving ultrasound images. For assistance, contact Technical Support.

2.3.2. Annotations Not Sent on Secondary Capture Images

When a Secondary Capture Image other than digitized film is the only image in a study, user annotations made on that image are not sent at close study.

2.3.3. Ultrasound Measurement Calculations

When Pixel Spacing and Sequence of Ultrasound Regions are both present in an ultrasound image, SecurView software uses the Pixel Spacing value to calculate measurement lengths.

2.3.4. Annotations Displayed Incorrectly on Reduced Resolution Center Slice of SCO Image

If an annotation is made on a tomosynthesis image that was sent as Hologic SCO to a SecurView workstation, then stored to PACS as a GSPS, the marking may appear at the wrong location on a PACS viewer if it is displayed on the reduced resolution center slice stored in the public pixel data attribute of a Hologic SCO image.