APEX™
Software

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APEX™ Software

Operating System for the Horizon® Series of Densitometers

Customer Release Notes

For Software Version 5.6.1.4

Part Number MAN-11056

Revision 001

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Product Support

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APEX Software Release Notes

APEX™ 5.X analysis software is the operating system for the Horizon® series of bone densitometers. For differences in results from previous versions of APEX software, refer to the *APEX Software Statement of Equivalency* (MAN-11056).

> **Note**
> Refer to the *Horizon User Guide* (MAN-08072-002) for operating instructions related to new features.

1.1 Version 5.6.1.4

> **Notes**
> APEX software version 5.6.1.4 is for Windows® 10 operating system only.
>
> Database sync (DBSYNC-APEX) is no longer compatible with Discovery™ bone densitometers.

Enhancements/Changes

- Update to Microsoft SQL Server 2019
- Update to Microsoft Word 2021
- Add support for Hologic Unifi Connect

Resolved Issues

- DICOM SR scan exposure times can have negative values.
- Hip scan analysis cannot be completed with the "Display region of interest coordinates" option selected.
- Fixing an application crash when the auto-analysis feature is enabled and/or the auto-compare feature is enabled.
- Large discrepancy between left and right arm fat measurements of pediatric patients.
- DxReports erroneously reporting "No significant bone loss was observed" between scans of dissimilar scan modes.

1.2   Version 5.6.1.3

Notes

APEX software version 5.6.1.3 is for Windows® 10 operating system only.

Database sync (DBSYNC-APEX) is no longer compatible with Discovery bone densitometers.

Enhancements/Changes

•   Add support for new Asian motors for table and C-Arm motion.

Resolved Issues

•   Position of the **Cancel** button on the *Scan parameters* screen for Japanese language option.

•   Duplicate SOP Instance UID in DICOM SR.

•   Failure restoring DxReport backup created with previous version.

•   Incorrect DxReport text for forearm scans with significant bone loss.

•   Intermittent issue of FRAX values less than 0 .1%.

•   Image Style drop-down not visible when ROI Coordinates selected.

•   CPLD version mismatch message displayed when CPLD is correct.

1.3   Version 5.6.1.2

Notes

APEX software version 5.6.1.2 is for Windows® 10 operating system only.

Database sync (DBSYNC-APEX) is no longer compatible with Discovery bone densitometers.

Enhancements/Changes

•   Add support for new HP® Z2 computer running Windows 10 LTSC 2019.

Resolved Issues

•   Correct missing Radiation Dose Structured Reports (RDSR) fields.

•   Correct intermittent issue where the C-Arm does not move away from knees before lateral repositioning.

1.4 Version 5.6.1.1

Notes

APEX software version 5.6.1.1 is for Windows 10 operating system only.

Database sync (DBSYNC- APEX) is no longer compatible with Discovery bone densitometers.

Enhancements

- Resolve sporadic scan errors when running under Windows 10.
- Add MDD/MDR tier 1 language support.
- Add RDSR.

1.5 Version 5.6.1

Note

APEX software version 5.6.1 is for Windows 7 operating system only.

Features

- Display of Horizon hip and spine scans in the discovery, legacy, and classic image styles.
- Export of patient database in a comma separated value (csv) file format.
- 3rd party developer access to scan images and DAP values.
- Custom buttons to launch user-defined applications.
- Whole body lean mass values included in the DxReport database.
- Pediatric reports to display height-adjusted Z-scores.
- Patient positioning guide for whole body scans that comply with NHANES recommendations.
- Improved support for localized languages.
- Change of default setting on body composition calibration to "Classic" calibration.

1.6   Version 5.6.0.7

Features

- Added support for Windows 10-64.
- Resolved incorrect Ay motion: Table rising prior to C-Arm being at the head position when performing IVA scans.

1.7   Version 5.6.0.6

- This version was not released.

1.8   Version 5.6.0.5

Resolved Issues

- Incorrect Tx motion table continues to rise after aborting a radiographic uniformity test or whole body scan.
- Incorrect Tx motion table continues to rise after releasing the enable button during the lateral portion of an AP/lateral scan.
- Scans archived from a pre-5.6 version that had invalid data in the p-file could not be restored.
- Corrected reference curve database to use subtotal body lean mass in the pediatric lean mass versus BMC curve.
- DxReport does not display the 'Other' medications and medical conditions questionnaire answers.
- Patient names that contain Chinese characters do not display properly in patient lists.
- The database export filter 'new data only' exports all data.
- Incorrect error message "*Data in the following fields are either out of range or missing country code*" displayed when editing a patient on the *Patient Confirmation* screen.
- Updated application training scans (SE femur, whole body, and pediatric).

1.9   Version 5.6.0.4

- Enabled manufacturing flexibility.

1.10   Version 5.6.0.3

Resolved Issues

- DICOM language option corrections.
- Corrected problem resulting in 'unable to find record' when analyzing legacy scan. Scans will need to be restored to be corrected.
- Correct abort when Auto-WB analysis fails.

1.11   Version 5.6.0.2

Features

- Database synchronization added.

Resolved Issues

- Extraneous database messages are no longer saved in the log.
- The call back list report now handles large databases.
- Detail worklist query not functioning.
- Local motion active message at startup on system running at 50 hertz.
- DICOM Send rate of change reports generating message "*Attempt to scroll past end or beginning of data*".
- Abort analyzing IVA scans on Japanese Windows 7.
- Reference curve source can be listed as 2012 BMDCS instead of 2012 BMDS/NHANES.
- Unable to import database with blank referring physician.
- Unable to import only QC data.
- Graph for whole body report for patient less than 20 correctly labeled as 'Age vs. Sub Total'.

1.12   Version 5.6.0.1

Resolved Issues

- DICOM extended dual hip rate of change report does not archive scan to PACS.
- If the DICOM queue is suspended when a scan is performed it does not restart until APEX software is restarted.
- Reports not properly configured upon install.

1.13   Version 5.6

Features

- Patient database converted from Access to SQL. Improves the speed of APEX software when displaying lists of patients or scans.
- SE femur analysis and reporting enhanced to include the ability to annotate the image and add comments.
- Updated reference database for Caucasian and Black children with 2012 BMDCS data.
- New Pediatric reporting for hip, spine, and whole body exams. Allows for the configuration of these reports via the reporting tab under the System Configuration utility.
- Hologic Connect™ software has been added to allow for remote service and support for those sites who have internet connection and sign up for the service.

1.14   Version 5.5.3.1

Resolved Issues

- Increased system stability and performance to mediate '*Device not ready for requested action*' or prolonged unresponsiveness of APEX software.
- Corrected issues with DICOM filtered query/retrieve and disabling of MPPS.

1.15   Version 5.5.3

Features

- APEX software reports T-score based on configurable ethnicity and gender in accordance with ISCD guidelines.
- APEX software report configurable to report L2-L4 in accordance with JSBMR 2012 guidelines.
- BCA clinical report configurable to report weight in pounds.
- DICOM character set configurable.

1.16   Version 5.5.2.2

Features

- Adjustment of patient on/off position for Horizon A system.

1.17   Version 5.5.2.1

Features

- Support of lower pedestals in the Horizon A system.
- DICOM configuration modified to be able to generate any combination of hip rate of change and extended hip rate of change.
- Subscripts removed from DICOM SR.

1.18 Version 5.5.2

Features

- Support for the Horizon A system.
- Updated infant whole body algorithm.
- HP whole body added to database export.
- Export of QC data enhanced.
- The adjusted LSC values displayed under the rate of change table.
- DICOM modified to not mark spine scan as archived with extended spine report.
- SOP instance UID for the DICOM SR modified to be different from DICOM send.
- Added fields to DICOM SR, including reference curve source, analysis method, height, weight, and ethnicity.
- Performed series sequence added to DICOM MPPS message.
- Checking added to ensure proper dual hip positioning.
- Computer power setting adjusted during scanning to prevent computer from going into sleep mode during scans.

1.19 Version 5.5.1

- This version was not released.

1.20 Version 5.5

Features

- Support for Horizon system models Ci, C, Wi, W.
- SE Femur for the visualization of atypical femur fractures.
- Rulers available on the SE femur analysis for measurements of scan features.
- DxReport integration into APEX software.
- Histogram of bone pixels to aid in spine analysis.
- Dual hip reports.
- Wide screen support.
- Legacy media access enhanced.
- HP whole body added to database export.
- Export of QC data enhanced.

Note

APEX 5.5.x software can exchange data with APEX software 3.5.x and 4.5.x. APEX 5.5.x software can read data from APEX 4.0.x software but APEX 5.5.x software will update the data such that it will no longer be compatible with APEX 4.0.x software.