

synedra View Personal

Version 22 "Niobe"

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1. Feature Overview

1.1. General Features

- Available in German, English and French
- Documentation available in German, English, French
- Supported operating systems: Windows 10 x32, Windows 10 x64, Windows 11, macOS
- Can be run as a native 64-bit application; for an optimized performance and quick loading of big studies > 4GB
- Support of HTTP and HTTPS for software updates
- Updates can be received via a proxy server
- Options for the export of data to local media:
 - Data can be anonymized
 - Export of one image out of n, marked images
- Integrated file and CD browser with preview function; optional web browser
- Keyboard shortcuts for an efficient access to tools and functions
- Functions can be assigned individually to mouse keys
- Numerous possibilities for format conversions of images and videos; creation of conversion templates

1.2. Image Viewing and Editing

- Direct display of all common image formats without the need to change the application
- Integrated PDF viewer with many features, including search, adjust page, adjust width, print
- Integrated media player based on ffmpeg, providing extensive support of different video formats; saves the current playback position in videos and restores it when playing the video the next time
- DICOM display:
 - All DICOM image types, including x-ray (CR), MR, CT, nuclear medicine, PET, angiography, fluoroscopy
 - Data embedded in DICOM: MPEG2, MPEG4, PDF
 - DICOM Structured Reports
 - DICOM Presentation States
- Viewing area can be flexibly divided into grids: n x m, 2+1 left/right/top/bottom
- Support of HL7 CDA
- Support of numerous image and multimedia file formats, including JPEG, JPEG 2000, Photoshop, TIFF, PNG, BMP (Windows Bitmap), XPM, PNM, GIF
- Wide range of image viewing functions, including window, zoom, magnifier, shutter, scroll, pan, rotate, mirror, false colors
- Individually configurable window presets for CT examinations: cranium, abdomen, bone, lung, liver, spine, postmyelo, petrous portion, mediastinum
- Support of Thick Slab projections (MIP, MinIP, AVG) in stack view and in MPR
- Support of localizers for scrolling in series of slice images
- Visualization of the scroll direction when scrolling through an image stack
- Cine Loops: play-back of multiframe sequences (e.g., angiography, nuclear medicine, ultrasound sequences) and series of slice images (e.g., CT, MR) as film
- Synchronization tools:
 - Synchronous scrolling, windowing, zooming and panning
 - Synchronous application of the viewing properties Invert and Edge enhancement in multiple series
 - Synchronization of changes made to the MinIP, MIP and AVG projections and the slab size in all linked viewers
- Support of multiplanar reconstructions (MPR):
 - Rotation cube for an easy handling of multiplanar reconstructions
 - Orientation lines to visualize how planes are situated to one another; orientation lines can be shown and hidden
 - Tool to measure the volume of spheres/ellipsoids

- Configuration of user-defined slice thickness possible
- Configurable initial view of MPR examinations and configurable layout in MPR view
- In the reconstructed view, it is possible to display two topograms (scouts), which inform users about the position of the reconstructed slice
- Wide range of measurement and annotation tools:
 - Distances with optional display of the midpoint and snapping at 45 degree increments; adding further measuring points is possible
 - Measuring the perpendicular distance
 - Areas; adding further measuring points is possible
 - Angles (3-point, 4-point, 2-line angle measurements) including snapping at 45 degree increments
 - Freehand; adding further measuring points is possible
 - Spline (Catmull-Rom-Splines)
 - Circle measurements either starting from the center of the circle or from 3 points on its circumference; display of diameter, circumference and area
 - Ellipse measurements
 - Density/gray value measurements
 - Measurements on Doppler ultrasound images: time and velocity measurements; display of the Resistive Index
 - Deleting/applying/copying/modifying selected measurements/annotations
 - Image calibration tool; support of different measurement units
- Measurement and annotation tools are available as so-called single shot tools
- Undo and redo for image editing functions

1.3. Integrated Special Features

- DICOM Query/Retrieve: Requests can be made to a DICOM archive or a modality; data can be transferred from this external system to synedra View Personal
- DICOM/EXIF Dump: display of the DICOM and EXIF information contained in the image

1.4. Usage and Support

- synedra View Personal may not be used for medical purposes and does not include any support