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# synedra View Professional

Feature Overview

Version 17 "Poseidon"

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synedra information technologies

[www.synedra.com](http://www.synedra.com)

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## 1. Feature Overview

### 1.1. General features

- Available in German, English, French, Russian and Turkish
- Documentation available in German, English, French and Russian, tutorial available in German, English and French
- Supported operating systems: Windows 7, Windows 7 x64, Windows 10 Windows 10 x64, OS X x64
- Browser integration of archives via a URL call
- Integration of synedra View Professional with RIS, HIS, or web applications
- Data can be stored in DICOM archives (DICOM c-store)
- Patient-centered, hierarchically structured overview of documents
- Direct display of all relevant image formats without the need to change the application
- Integrated PDF viewer with many features, including search, adjust page and width, zoom, rotate, print (document and individual page)
- Quickview of PDF documents opened in the documenttree
- Integrated media player based on ffmpeg providing extensive support of different video formats

- Documents can be opened in external programs (e.g., MS Word, MS PowerPoint, Adobe Photoshop)
- Documents can be copied to a number of programs for further editing
- Configurable resolution of images for copies to the clipboard and drag&drop
- Data can be stored in a local catalog
- Options for the export of data to local media:
  - Data can be anonymized
  - Export of one image out of n, marked images
- Convenient production of patient CDs/DVDs, optionally with synedra View Personal; support of DICOMDIR
- Support of Rimage and Epson disc producers: CDs with patient data and synedra View Personal can be customized and produced conveniently
- File and CD browser with preview function; optional web browser
- Wide range of print functions (virtual and hardware):
  - For DICOM printers (also in color)
  - For paper printers
  - For the creation of PDF documents, e.g., to provide a compilation of the most relevant images
  - For the creation of new DICOM series, e.g., a series of "key images"
  - Selective printing (one image out of n, marked images)
- Status tab providing feedback on synedra View Professional background activities (e.g. saving)
- Keyboard shortcuts for an efficient access to tools and functions for key users
- Functions can be assigned individually to mouse keys
- IHE-compliant implementation of the following components, among others:
  - Import/export of patient CDs
  - DICOM Query/Retrieve
  - Viewer
    - Same Size as well as True Size function
    - Consistent Presentation of Images (CPI)

## 1.2. To view and edit images

- DICOM display:
  - All DICOM image types, including x-ray (CR), MR, CT, nuclear medicine, PET, angiography, fluoroscopy
  - Data embedded in DICOM, including MPEG2, MPEG4, PDF

- DICOM Structured Reports
- DICOM ECG data
- Support of HL7 CDA
- Support of image file formats: JPEG, JGEP 2000, Photoshop, TIFF, PNG, BMP (Windows Bitmap), XPM, PNM, GIF, ...
- Single- and multi-monitor set-ups:
  - Standard clinical application on standard PCs with 1 monitor on each workstation in the hospital
- Image display on all screens available; fullscreen mode
- Specific GUI for the creation and adaptation of hanging protocols:
  - Automated hanging of examinations/series/sequences based on pre-defined hanging protocols (also available for multiple selections of examinations or series)
  - Users can adjust the priority and activation of the hanging protocols available
  - Configuration of comparative protocols
  - A hanging protocol might contain the following settings: layout and synchronization of viewers, initial display mode (slice images, film, MPR, meta data view), initial zoom (adjust to image width/height, 1:1, fixed value), initial image orientation (left/right/upper/lower margin, centered), image sorting in a viewer, horizontal/vertical flipping, MPR viewing options
  - Hanging protocols can be activated with buttons and keyboard shortcuts
  - Mammo-specific hanging protocols
  - Specified elements, e.g., presentation states, localizers, can be shown and hidden in the documenttree with a toggle button
- Mammo-specific tools:
  - Edge enhancement and highlighting of micro-calcifications
  - Images can be centered horizontally and/or vertically
- Screens can be divided independently from one another; screen contents can be distributed over the available monitors and moved flexibly
- Specified elements, e.g., presentation states, localizers, can be shown and hidden in the documenttree with a toggle button
- Wide range of image viewing functions, including window, zoom, magnifier, shutter, pan, rotate, mirror, false colors
- Window values can be entered manually
- Window tool also allows to adjust the contrast and brightness of color images
- DICOM series can be split into sequences based on pre-defined criteria, e.g., resolution, slice thickness, MR weighting

- Individually configurable window presets for CT examinations, including bone window, lung window
- Support of multiplanar reconstructions (MPR):
  - Rotation cube for an easy handling of multiplanar reconstructions
  - Support of thickslab reconstructions (MinIP, MIP, AVG, MED)
  - Configurable initial view of MPR examinations
- Wide range of measurement tools:
  - Length, surface (also in percent), angle (3- and 4-point), freehand
  - Density/gray values
- Image calibration tool; support of different measurement units
- Text annotations can be magnified and/or reduced in size independently from one another
- Image text can be configured and masked by default for specific modalities
- Localizer display when scrolling in series of slice images
- Undo and redo for image editing functions
- Cine Loops: Multiframe sequences (e.g., angiography, nuclear medicine, ultrasound) and series of slice images as film
- Numerous possibilities to convert files to different formats:
  - Multiframe sequences and series of slice images to AVI
  - DICOM in JPEG
  - DICOM in DICOM

### 1.3. To search documents

- Search in local catalog and/or - after logging in - in synedra Archive via a configurable web portal
  - Search can be restricted to one source, i.e. catalog or web



#### Note

For synedra View Professional to support the login to a synedra web portal, specific conditions must be fulfilled.

- Search for previous examinations of a patient

### 1.4. 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 Professional
- DICOM/EXIF Dump: display of the DICOM and EXIF information contained in the image

- Support of DICOM ECG documents including specific tools, i.e., ECG time measurement, ECG heart rate measurement, ECG tension measurement

## 1.5. Usage and support

synedra View Professional is a class IIb medical device certified to directive 93/42/EEC.

synedra View Professional may be used for medical purposes.

synedra View Professional includes a professional e-mail and telephone support.

synedra View Professional may be used on diagnostic workstations.