Integration Software for Reproducing OR Processes on a Single Platform
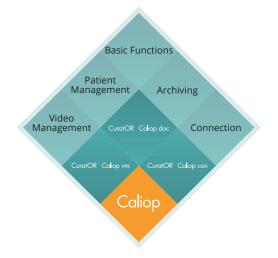
Comprehensive Integration

CuratOR Caliop ensures seamless and manufacturer-independent interaction of the connected components in the OR. With its intuitive menu navigation, they can be managed quickly and from a central location. Additionally, Caliop offers comprehensive video management functionality and facilitates precise workflow planning.

Modular Design

The software Caliop consists of different elements which can be separately purchased based on need. The elements meaningfully summarize the various functional units of the software, the modules. This means, Caliop can be easily adapted to respective requirements on site and expanded at a later date if necessary.

CuratOR® Caliop

Basic Functions

Irrespective of the locally installed elements, Caliop supports OR-workflows with a range of basic functions such as a configurable dashboard, stopwatches and timers, and display of running processes with their respective status. The design for the Caliop user interface can be individually selected in the dashboard.

Video Management (Caliop vm)

In addition to the Caliop basic functions, Caliop vm enables all available video sources to be managed. All image and video sources connected to the EIZO media equipment are displayed clearly arranged in thumbnail images (or optionally with a permanent image). Furthermore, the connected display elements, such as external monitors, and the respectively available layouts are shown. At the click of a mouse or simple touch, a video source can be selected and assigned to the desired monitor or layout. An existing connection is displayed visually. The size of the displayed sources and the targets can be changed using the scaling buttons.

Documentation and Archiving (Caliop doc)

Caliop doc enables all available video sources to be documented and archived. The Patient Management module allows you to manage a list of patients. Patients can be created according to the existing data. With the Video Management module, the available recording devices are displayed. Buttons can be used to start and stop recording of the assigned video sources. Additional buttons are used to create snapshots during a recording. The module Archiving shows all images that have been taken. The view can be individually adapted and filtered. From this list of the images taken, the user can select and display separately the recordings to be archived by mouse click or by touching the screen.

Connection (Caliop con)

Caliop con realizes the software connection to the DICOM worklist and PACS as well as HL7 ADT/ORU. The module connection enables Caliop doc to be integrated into the hospital information system. Patient data therefore are available in Caliop without media disruption. As such, recorded videos and snapshots can be linked to the patient data of the hospital information system and archived. The connection via DICOM worklist and HL7 ADT/ORU supports the selection of patient data from the hospital's IT infrastructure. DICOM storage is used to export images generated during surgery. It is also possible to connect to non-medical archives.

Specifications

Elements (Software Packages)	Caliop basic	Basic Functions
	Caliop vm	Basic Functions + Video Management
	Caliop doc*	Basic Functions + Patient Management + Archiving (*in conjuctions with Caliop vm only)
	Caliop con**	Connection (**in conjunction with Caliop doc only)
Basic Functions	Dashboard	Displays general information, such as the name of the hospital, displays selection of available background images
	Stopwatch and Timer	Multiple timers and countdowns can be set and running at the same time
Modules	Video Management	Manages all video sources and targets, assigns to source and the desired destination by click/touch, layout selection, scale the size of the display by using buttons to adapt to a different number of signals, optional control functions via remote control (for example, endoscope camera head buttons or foot switch)
	Patient Management	Manages patient data, downloads the patient list from HIS via DICOM or HL7, enables manual creation of patients
	Archiving	Displays and stores all recorded files, users can select between different views, various storage options (e.g. USB medium, PACS, different hospital archiving destinations)
	Connection	Connection to the hospital's data interfaces using DICOM worklist and HL7 ADT/ORU, export using DICOM storage or connection to non-medical archive
System Require- ments	Client	Operation system: Windows 10 Hardware (minimum): Intel Core i5, 8 GB RAM, 120 GB SSD HD, Ethernet, USB 3.0, framegrabber (for recording), graphics board with Full HD support
	Server	Operating system: Windows 10, Hardware (minimum): Intel Core i5, 8 GB RAM, 120 GB SSD HD, Ethernet

Caliop Software Architecture