

Release Notes RT Software Suite Version 4.2

Release version: 4.2.4990.0

New features in this version

Integration of AXIS camera models

The RT Software Suite has been adapted to be compatible with a range of AXIS camera's. The models in the table below are supported. All of these models have day/night functionality with automatic switching. Thanks to a new audio implementation, in these camera's we are able to offer **superior audio quality** (AAC LC 32 kHz implementation). In addition, all of these camera's support the H.264 High profile which ensures **superior image compression** with respect to the H.264 Main profile supported in Sony camera's. These camera's also offer effective compression by means of variable bit rate: in recordings where the image doesn't change much (patient sitting still or laying down) the compression will result in smaller video files. For the first time, we also offer a **4K resolution** camera.

AXIS model	Image	Max resolution	Lens type	Other specs
V5914		HD	PTZ, auto focus	FANLESS
V5915		Full HD	PTZ, auto focus	FANLESS
V5925		Full HD	PTZ, auto focus	FANLESS
P1375		Full HD	Fixed lens, no auto-focus	
P1378		4K	Fixed lens, no auto-focus	
M5525-E		Full HD	PTZ, auto focus	Integrated IR lamp

For more information about these camera's, please check our camera manuals: "R-Camera Configuration Manual for RT Software Suite-3-0" and "R-Quick AXIS IP Camera Installation Guide 1-0".

Integration of Micromed SD PLUS amplifiers

Starting from this version, the RT Software Suite is compatible with the SD PLUS family of Micromed amplifiers from our Micromed Global branch. These modern amplifiers offer superior signal quality while providing a flexible channel configuration: one or two rows of user selectable bipolar vs referential channels allow the clinical user to set up a measuring protocol for each situation. For the research user, this amplifier offers powerful features such as 16 kHz sampling rate and recording in DC range.



Figure 1: SD PLUS Research

The following amplifier types are available:

SD PLUS model	Specifications
SD PLUS Clinic	29 channels amplifier SpO2 channel Marker button Sampling rate up to 1024 Hz
SD PLUS Clinic High Rate	29 channels SpO2 channel Marker button Sampling rate up to 16 kHz
SD PLUS Flexi	38 channels (of which 32 EEG) SpO2 channel Marker button Sampling rate up to 16 kHz
SD PLUS Research	48 channels (of which 40 EEG) SpO2 channel Marker button Sampling rate up to 1024 Hz

For more information about these amplifiers, please consult our manual "R-Measuring Guide-3-0".

Remark: recording is currently NOT supported for Windows 7, 32 bit acquisition units. Please use a Windows 10 machine in combination with RT Software Suite in order to record data with the SD PLUS amplifier!

Other improvements in this version

We have made the following improvements:

- Correction to report: all multi-zone elements in predefined tables are automatically calculated.
- All “RT Software Suite” elements of the report are automatically filled in when creating the report, without manual update.
- Reports open on the correct location of the screen in correspondence with the settings in the BrainRT Configuration Console.
- HL7 connection for sending report (ORU): Functionality to send PDF to HIS is successful
- Somnolter license requirements have been corrected to allow measurement on local or network license.
- Patient ID and patient name is no longer restricted in length for measurement with Somnolter amplifiers.
- When no measurement is selected during an “measurement export session”, an error message will appear to indicate that you should select a measurement first.
- The Spanish translation has been improved.
- In some cases, the installation of RT Software Suite was incomplete due to incompatibility between the HASP license manager and OS. Thanks to integration of the latest HASP license manager version, this problem has now been solved and no incomplete installation occurs anymore.
- In previous versions, it was required to have leg movement events in order to be able to launch a 2nd order EMG analysis. From this version, the 2nd order EMG analysis can be performed also in case EMG background events, movement events or leg movement events are present.

