

The Biosaca video system for Home use



The home recording system is available in two different versions.

- One with mobile phone connectivity which makes it possible to wireless view and adjust the camera and check and record the vital signs from any connection using Internet.
- The other system is without the mobile phone connectivity and records the video and vital signs only.

The Home Video package consists of:

Recording unit mounted in a suitcase:

- Pan / Tilt camera
- Infrared illuminator
- Microphone.
- Communication and video recording computer.

Computer Software

- Monit 3.0 Video software.

The Home Video package includes:

- Monit 3.0 Video software.
- Video Suitcase (see technical specifications)

Not included parts:

- Biosaca 3G connector software.
- Biosaca unit plus accessories

The system works together with the Sleep Lab video system.

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PC Requirement

Windows XP pro
Dot.Net 1.0 or higher
CPU 2.0 GHz or higher
Ram: 1 Gb or higher
One or preferably two display screens
Network with Internet connection
1 extra hard disk, internal or external, 300 Gb or more *
DVD Burner and DVD +/-R media for storage
DVD Burner Software
Internal or external speakers

* An eight-hour video recording with patient data will normally need approximately 1.3 Gb of hard disk space.

It's possible to use a LapTop computer and the *Biosaca 3G connector* software to remotely check and adjust the video and vital signs from any ware in the world.

How to make a home recording:

1. Use the Monit 3.0 Basic software to set up the Biosaca and the "Video recording suitcase" before bringing it to the patient's home.
2. Place the suitcase in the foot end of the patient's bed, open the suitcase, lift up the stand and connect the power cord to the wall outlet.
3. Connect the patient headboxes and sensors to the Biosaca.

The system will now start a video and vital signs recording.

The system will also automatically, depending on version, connect via mobile phone data net and VPN to the hospitals/sleep labs network to be available for view and adjust the camera and the Biosaca vital signs recording.

The system could also be setup to **not** use VPN and will in this case be available directly from the Internet and only be protected by username and password.

The Monit Video software is used to empty the video and Biosaca units the day after.

The video and vital signs recording are automatically synchronized.

One night video recording including Biosaca vital signs recording requires approximately 1.3 Gb of hard disk space and fits on a single DVD record for storage.

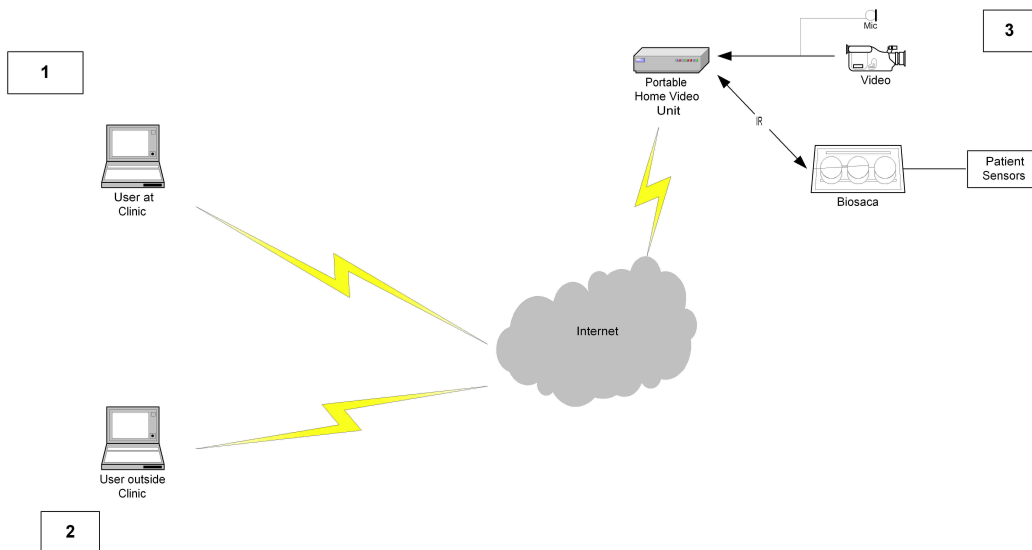
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How to check video and vital signs remotely:

1. Do the steps 1-3 above: *How to make a home recording*
2. Use a computer directly connected (1) to the local network or a computer connected to the local network thru Internet (2).
3. Start *Biosaca 3G Connector* software on the computer. Enter the network address to the recorder and press *Connect*. The camera picture will show up and it is possible to view and adjust if necessary.
4. To check the vital signs, run *Monit 3.0 Video* software to display or change the signals. The Ir-device must be connected to the patient video unit (3) and placed next to Biosaca.

How to do a recording remotely:

1. Do the steps above.
2. Press the Recording button in Monit Video software to store the vital signs to the computer. If the connection is lost, the video and vital signs recording will be stored automatically at the patient's location (3).





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Technical Specifications

Biosaca	Any Biosaca could be used
Software	Monit 3.0 Video. Biosaca 3G connector (for remote video display and adjustment) Motion detection: By video recording and / or thru sensor pad, position belt Synchronization Video/Biosaca recording: +/- 1 second or better. Recording: MPEG4 simple profile Number of simultaneous recording: 1

Camera specifications

Technical specifications System

Video Suitcase

Camera and IR illuminator mounted on a easily packed / unpacked stand
Recording / remote connection computer.
Video recording capability: More than 48 hours.
Power Input: 100-240VAC, 50/60Hz, 1.35A

Camera Specification

1/4-inch color CMOS sensor
Resolution: 640x480
1.5 Lux / F2.0 - 0 Lux with IR illuminator.
AGC, AWB, AES
Electronic shutter: 1/60 ~ 1/15000 second

Lens Fixed focal with fine tuning, 4.0mm, F2.0

Audio AAC, GSM-AMR

Microphone

Omni-directional
Frequency: 50 – 16000Hz
S/N ratio: more than 60dB

Networking Protocol

TCP/IP, HTTP, SMTP, FTP, DDNS, UPnP, Telnet, NTP, DNS, DHCP and RTSP

Operating Environment

Temperature: 0-50°C/32-122°F
Humidity: 95%RH

EMI & Safety CE, FCC

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Video MPEG4 (simple profile) for streaming video
JPEG for still image

Features Adjustable image size, quality and bit rate
Timestamp and text overlay (patient ID)
3 motion detection windows

Resolution Up to 30/25 frames at 160x120
Up to 30/25 frames at 320x240
Up to 30/25 frames at 640x480

Options:

- Suitcase Unit with 3G* connections for remote checking of video and vital signs
- Suitcase Unit without 3G* for recording of video and vital signs only.
- Laptop software for remotely checking video and vital signs.

* Mobile phone data connectivity