



The Biosaca video system for Sleep Laboratory

The recording system consists of:

- Monit 3.0 Video software.
- Biosaca unit plus accessories.
- Fixed camera, wall mounted on a stand.
- Infrared illuminator.
- Microphone.

The Monit 3.0 Video software is the online / offline monitoring software for any Biosaca and has a connection to a camera thru the network.

It is not necessary to use online monitoring to make a video recording. It's possible to use the Biosaca PC-card recording and later import it and synchronize it with the video recording.

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

The Video package includes:

- Monit Video software.
- Camera with stand.
- Microphone.
- IR-illuminator with wall stand.

The system works together with the portable home video system.



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How to set up a Sleep Laboratory recording:

1. Use the Monit 3.0 Video software in the PC to set up the Biosaca and the "Video recording".
2. Connect the sensors, electrodes and transducers to the patient.
3. Connect the patient headboxes and sensors to the Biosaca.
4. In the Monit 3.0 Video software, press Record.

The video and vital signs recording are now recorded and automatically synchronized.

PC Requirement

Windows XP Pro
CPU 2.0 GHz or higher
Ram: 1 Gb or more
One or preferably two display screens
Network
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 accusation data will normally need approximately 1.3 Gb of hard disk space.

Technical Specifications

Biosaca Any Biosaca could be used

Software Monit 3.0 Video.
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
Number of simultaneous review: 5 or higher depending on CPU power.

Camera specifications

Fixed camera with wall stand
CPU: Trimedia PNX1300
RAM: 16MB SDRAM
ROM: 4MB FLASH ROM



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Networking Protocol

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

Physical 10BaseT Ethernet or 100BaseT Fast Ethernet, Auto negotiation

Algorithm supported

MPEG4 simple profile/MJPEG selectable
JPEG for still image

Features Adjustable image size, quality and bit rate
Timestamp and text overlay (patient ID)
3 motion detection windows
Flip and mirror.
Video output connector.

Resolution Up to 30/25 frames at 176x120 or 176x144
Up to 30/25 frames at 352x240 or 352x288
Up to 15/12 frames at 704x480 or 704x576

Not: Video quality performance could vary somewhat due to poor connectivity because of the network's burst constraint.

Video 1/3 inch color CCD sensor
Typical: 0.5 Lux / F2.0, 0 Lux with 10 meters IR-lens on
AGC, AWB, AES

Electronic shutter:

1/60(1/50) to 1/100,000 sec

Lens CS mount F2.0, f=6.0mm

Audio 32Kbps, 24Kbps, 8Kbps
Acoustic echo cancellation
Full duplex audio communication (as option in Monit software)

Microphone

Omni-directional
Frequency: 20 – 20,000Hz
S/N ratio: more than 58dB

Weight: NET. 430g

Dimension: 140 mm (L) * 70mm (W) * 55 mm (H)



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Power

Consumption: MAX 7.0 W
Adapter input: 100-240VAC, 50/60Hz, 0.4A
Adapter output: 12VDC, 1.5A

Operating Environment

Temperature: 0-40°C/32-102°F
Humidity: 85%RH

EMI & Safety: CE, FCC

IR-illuminator: Automatic on/of at 10 lux

Options:

- Different lenses, zoom and fixed on request
- Full duplex audio communication from Monit to camera.