PADSY System Requirements

PADSY from version 7.5e and applications

Note
To ensure the smoothest possible operation of the PADSY patient and vital data management system, the requirements listed below must be met.
Please check that your computer meets these requirements before you install the software.
PADSY can generally be integrated seamlessly into an existing computer and network environment. In certain cases, however, adjustments will need to be made to already installed systems in order to guarantee reliable operation, thereby incurring additional costs.
If PADSY is operated together with different applications (Medset and non-Medset) on the same computer, the maximum requirements for each individual application must be met and the minimum requirements with respect to RAM/processor capacity must be available for each application, especially in case of parallel operation. Performance of the application may be impaired if the computer meets only the minimum requirements.

Minimum computer requirements

Operating system

Microsoft:

- Windows 7 (32 bit or 64 bit)
- Windows 8 and Windows 8.1 (32 Bit or 64 Bit)
- Windows 10
- Windows Server 2008,2008 R2, 2012 R2 and 2016 (also including “Windows Terminal Services” and compatible systems)

Apple (with Java 6.0):

- MacOS X 10.7 (Lion)
- OS X 10.8 (Mountain Lion)
- OS X 10.9 (Mavericks)
- OS X 10.10 (Yosemite)
- OS X 10.11 (El Capitan)
- OS X 10.12 (Sierra)
- OS X 10.13 (High Sierra)
  in exceptional cases connectivity problems Flashlight USB to OSX 10.12 and OSX 10.13 may occurr.
- OS X 14 (Mojave) – liveECG INIT, the initialization software for liveECG, is not mojave compatible, an Android solution is available.

Linux (PADSY-Server only):

- On request

Note
Operation of locally connected hardware devices is not possible if PADSY is installed on server operating systems running “Windows Terminal services”.

Computer hardware

Processor

Windows / Apple / Linux:	Intel or AMD Dual-Core Prozessor (x86) 1,8-GHz or better (Recommendation: Intel Core i5 or i7 ≥ 2.0 GHz)
Windows Terminal services:	on demand

Note:
„Low-power“ or „low-cost“ processors like members of the Intel-Atom/AMD-Fusion family or similar systems from other manufacturers which can be frequently found in “netbooks” or “nettop-computers” are **not** suitable for PADSY recording stations.

Main memory

Available for use by PADSY:	32bit systems: at least 2 GB (Recommendation: 4 GB) 64bit systems: at least 2 GB (Recommendation: 4 GB)

Note
For installations of ECG management systems a main memory of 8 GB is necessary.
For installations on Windows Terminal Server systems, adapt the available system resources to the number of concurrent users.

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Hard drive

PADSY installation:	at least 1 GB
Resting ECG:	approx. 180 kB to 2 MB / recording
Stress Test ECG:	approx. 0.6 MB / minute (about 10 MB / typical recording)
Holter ECG:	approx. 50 MB / recording (varies according to type of recording and Holter recorder: 10MB–200 MB/recording)
Long Term Blood Pressure:	approx. 10 kB / recording
Spirometry:	approx. 400 kB / recording

Screen / graphics adapter

Resolution:	≥ 1024 x 768 px; 1440 x 900 px recommended
Colour depth:	≥ 16 bit; 24 Bit / TrueColor recommended

Note
A two-monitor system is required for Ergo-Spirometry.

Required interfaces

PADSY Software protection dongle: USB 2.0

Note
In case of a network installation only one dongle is required (server only). If no free USB port is available, e.g. in virtual environments, a USB device server (BBZ5081) can be used to attach the dongle directly to the network.

Resting ECG or stress test ECG

ECG-Top USB-PC-ECG-Amplifier:	USB 2.0
FLASHLIGHT Sensor USB:	USB 2.0
FLASHLIGHT Sensor BT:	USB 2.0 for Bluetooth adapter (BBZ5060) or internal Bluetooth adapter
ECG-Top BT / CardioPort***Four***:	USB 2.0 for Bluetooth adapter (BBZ5060) or internal Bluetooth adapter
Ergometer - ErgoTop:	USB 2.0 or serial interface
ErgoSpirometry - Innocor:	USB 2.0 or serial interface
Other devices:	on demand

Holter ECG

TELESMART Recorder:	USB 2.0 for Bluetooth adapter (BBZ5060) or internal Bluetooth adapter USB 2.0 for card reader
liveECG:	USB 2.0 for docking station the initialization tool for liveECG, is not mojave compatible, an Android solution is available
Other devices:	on demand

ABPM, long-term blood pressure

SCANLIGHT III Recorder:	USB 2.0 for Bluetooth adapter (BBZ5060) or internal Bluetooth adapter Alternative: serial interface or USB 2.0 for USB/serial adapter (BBZ5050)
Other devices:	on demand

Spirometry

Spirosound or ndd easy on-PC	USB-2.0
Ganshorn SpiroScout	USB-2.0
Ganshorn SpiroJet	serial interface or USB 2.0 for USB/serial adapter (BBZ5050)

Note

Current USB 3.0 and 3.1 interfaces are backward compatible to USB 2.0 (www.usb.org). To avoid malfunction, please use only Medset-approved Bluetooth adapters.

PADSY System Requirements

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Peripheral devices

Human interface devices:	Keyboard and mouse are required
Removable drive:	DVD-ROM (needed only for installation purposes and to apply licence files)
Printer:	Windows- or Apple-compatible local printer or network printer Resolution of ≥ 600dpi (e.g. laser printer Brother HL-5340HD)

Note

Use of a colour printer is recommended for PADSY-Spiro and PADSY-RR.

Special conditions:

With divergent conditions as for hardware, software or configuration, please contact your Medset partner.

Regulatory requirements

Please observe any additional regulatory requirements that may apply in your country. If the computer or other peripheral devices are operated within the patient environment, further measures to ensure patient safety are required, e.g. the use of medical isolating transformers and/or interface and network isolators.

All connected devices must conform to at least the EN 60950 standard.