# System requirements

## for PADSY from 7.5h on and its applications

ⓘ In order to ensure the proper functioning of the PADSY Patient Diagnostic System and its applications, the system requirements mentioned here must be met. Please check whether your PC meets these requirements before installing the software.

PADSY can, in principle, be seamlessly integrated into existing computer and network infrastructures. Nevertheless, it cannot be ruled out that in exceptional cases, adjustments to the existing hardware or software installation may be necessary to ensure PADSY operates reliably, and these will be charged.

If you want to operate PADSY with its applications together with other software applications (which are not from Medset) on one computer, the system must meet the higher set of requirements, and the minimum amount of RAM/processor power for each application must be available (even when in parallel operation). When using computers that only meet the minimum requirements, performance can be reduced.

## Requirements for you computer

### Operating system

*Table 1: Operating system*

| Microsoft | Apple (mit Java 6.0) |
|---|---|
| Windows 7 | OS X El Capitan 10.11 |
| Windows 8 und 8.1 | macOS Sierra 10.12 |
| Windows 10 | macOS High Sierra 10.13 |
| Windows Server 2008, 2008 R2, 2012 R2, 2016, 2019 (also with „Windows Terminal Services and compatible systems) | macOS Mojave 10.14 |

ⓘ In some cases, there may be connection problems with Flashlight USB recorders and macOS Sierra 10.12 and macOS High Sierra 10.13.

ⓘ In some cases, there may be connection problems with ECG Time S longterm ECG recorder and Windows 32 Bit.

ⓘ It is not possible to control locally connected hardware when installing PADSY on server operating systems and for use in "Windows Terminal Services".

## Computer hardware

### Processor

*Table 2: Processor*

| Windows / OS X | Windows Terminalservices |
|---|---|
| Intel bzw. AMD Dual Core Processor (x86) 1,8 GHz or higher (recommentation: Intel Core i3, i5 or i7 ab 2.0 GHz) | Auf Anfrage |

ⓘ "Low-power"/"low-cost" processors of the Intel Atom/AMD Fusion class or comparable systems from other manufacturers, such as are often used for "Netbooks" or "Nettops", are **not** suitable for PADSY recording stations.

**Windows / macOS Processor**

*Table 3: Processor*

| 32 Bit Systeme | 64 Bit Systeme |
|---|---|
| At least 2 GB freely available (recommendation: 4 GB) | At least 2 GB freely available (recommendation: 4 GB) |

> **i** When installing ECG management systems, a larger working memory of at least 8 GB is required. For installations on Windows Terminal Server, the available system resources must be adjusted to the number of simultaneous users.

**Disc space**

*Table 4: Disc space*

| Application | Storage capacity |
|---|---|
| PADSY installation: | At least 1 GB |
| PADSY ECG: | Approx. 180 kB to 2 MB / recording |
| PADSY Ergo: | Approx. 0.6 MB / minute (approx. 10 MB / recording) |
| PADSY Holter: | Approx. 50 MB / recording (depending on the recorder and recording type: 10 MB – 200 MB / recording) |
| PADSY RR: | Approx. 10 kB / recording |
| PADSY Spiro: | Approx. 400 kB / recording |

**Monitor / graphics**

*Table 5: Monitor / graphics*

| Function | Requirements |
|---|---|
| Resolution: | At least 1024 x 768 (recommendation: > 1440 x 900 pixels) |
| Colour depth: | At least 16 bit (recommendation: 24 bit / TureColor) |

> **i** A 2-monitor system is required for ergo-spirometry.

# Required interfaces

> **i** Only a dongle for PADSY servers is required for network installations. For virtual environments, the dongle can alternatively be used with a USB Device Server (see current price list).

*Table 6: Required interfaces*

| Application | Interface |
|---|---|
| **PADSY software protection dongle** | USB 2.0 |

| Application | Interface |
|---|---|
| **PADSY ECG and PADSY Ergo** | |
| ECG Top USB PC 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 D (CardioPortFour): | USB 2.0 |
| ECG Top BT (CardioPortFour): | USB 2.0 for Bluetooth adapter (BBZ5060) or internal Bluetooth adapter |
| ECG Air BT (CardioAirPlus): | USB 2.0 for Bluetooth adapter (BBZ5060) or internal Bluetooth adapter |
| Ergometer – ErgoTop: | USB 2.0 or serial interface |
| Ergo-spirometry – Innocor: | USB 2.0 or serial interface |
| **PADSY Holter** | |
| Telesmart recorder: | USB 2.0 for Bluetooth adapter (BBZ5060) or internal Bluetooth adapter<br>USB 2.0 for the CF card reader |
| liveECG reader: | USB 2.0 |
| ECG Time: | USB 2.0 for the SD card reader |
| ECG Time S: | USB 2.0 for Bluetooth adapter (BBZ5060) or internal Bluetooth adapter |
| Other recorders: | Upon request |
| **PADSY RR** | |
| Scanlight III recorder: | USB 2.0 for Bluetooth adapter (BBZ5060) or internal Bluetooth adapter<br>Alternative: serial interface or USB 2.0 for USB/serial adapter (BBZ5050) |
| Other recorders: | Upon request |
| **PADSY Spiro** | |
| 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) |

**Peripheral equipment**

*Table 7: Peripheral equipment*

| Peripheral equipment | Requirements |
|---|---|
| Input device (required): | Keyboard and mouse |
| Printer: | Windows- or Apple-compatible printer or network printer with a resolution of at least 600 dpi |

**i** A colour printer is recommended for the PADSY Spiro and PADSY RR.

**i** **Special requirements:**
If your hardware, software or configuration requirements differ, please contact your Medset contact person.

# Normative and regulatory requirements

When commissioning, please note any other regulatory requirements that apply in your country. If the computer or other peripheral devices are operated within the patient environment, further measures for patient safety are required, such as the use of medical isolating transformers and/or interface and network isolators.
All connected devices must, at a minimum, meet the standard DIN EN 62368-1.