



KONICA MINOLTA

NEW

Wristwatch-Sized Pulse Oximeter with Memory Function

OXYGEN SATURATION MONITOR

PULSOX[®]-300i

Advanced high-capacity/high-resolution memory

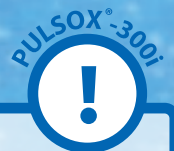
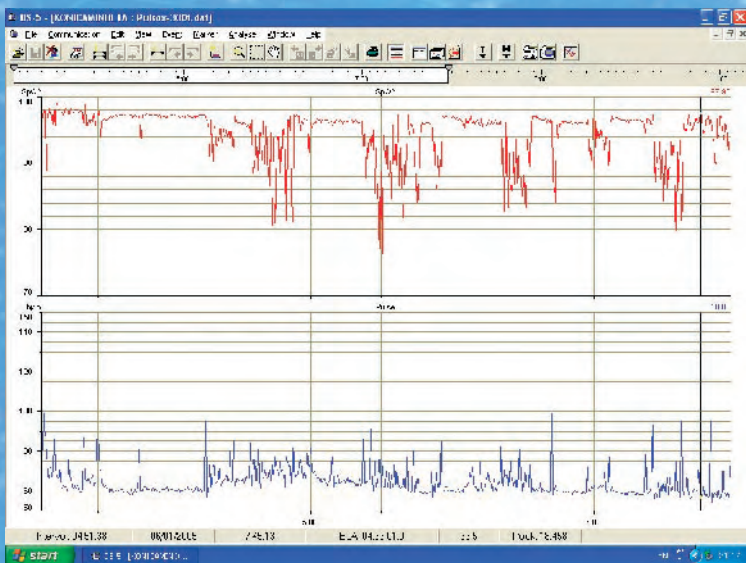
- Large-capacity memory stores up to 300 hours of data
- SpO₂ memory resolution: 0.1%
- 1-second interval measurements



Sleep apnea screening

**Flexible evaluation of HOT (Home Oxygen Therapy)/
NIPPV (Non-Invasive Positive Pressure Ventilation) patients**

Outpatient guidance and management



High-resolution memory enables significantly improved screening accuracy for sleep apnea syndrome!

Long-term memory up to 300 hours

Non-volatile memory for data-safe battery replacement

High-speed download via USB

Lightweight, compact body fits well against wrist.

Long battery life: Up to 30 hours with a single AAA alkaline battery

New software for data analysis is easy to use and offers a variety of analysis functions



High-resolution memory accurately tracks tiny changes!

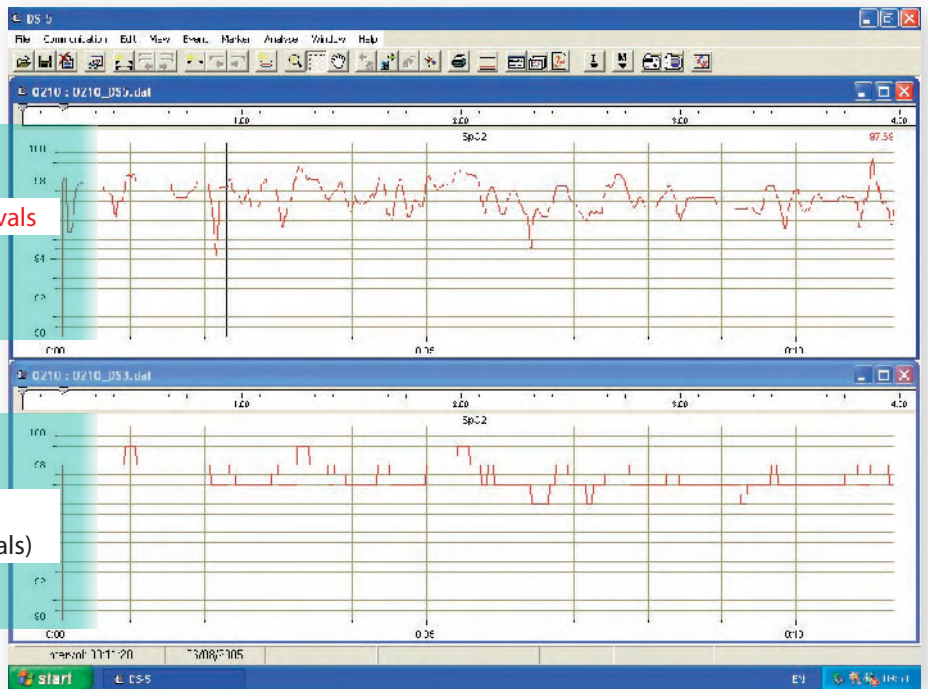
Tiny changes and short-cycle fluctuations can be accurately tracked with data collected in the high-resolution memory at a resolution of 0.1% for SpO₂ and 1-second intervals.

PULSOX-300i

0.1% resolution and 1-second intervals

PULSOX-3i

Conventional model
(1% resolution and 5-second intervals)



Large-capacity memory for up to 300 hours of data /High-speed downloading via USB!

A total of 300 hours of high-resolution memory data, collected with 0.1% SpO₂ resolution at 1-second intervals, can be stored in the unit.

Up to 399 files can be stored. Large amounts data can be quickly downloaded to the software via a special cable supporting USB 1.1.

Data for a whole night (8 hours) can be downloaded in only 10 seconds.



Long battery life: 30-hour continuous operation with a single AAA alkaline battery!

Remaining battery life is shown by a three-level status indicator. No need to worry about the battery failing overnight.

The DS-5 optional data analysis software allows Auto Power Off time to be set.

The non-volatile memory reliably retains data during battery replacement.

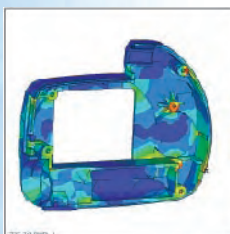


Impact-resistant body designed for a perfect fit on the wrist!

The main unit was designed using advanced 3D CAD to achieve double impact resistance versus Konica Minolta's conventional PULSOX-3 model.

The main unit weighs only 56g including the battery, and its thin profile measures only 15mm at the centre.

The contact surface is contoured for significantly improved stability even when the wearer moves. The large LCD with backlight allows easy reading of the displayed data.



* The data analysis functions of the PULSOX-300i are available only with the DS-5 software. The DS-5 software can also be used with the PULSOX-3 memory-type model.

Interactive communication between the main unit and DS-5 software

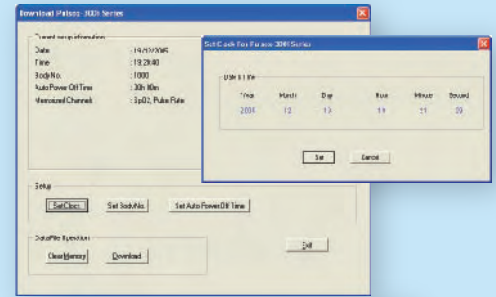
The clock data in the PC can be used to set the clock in the main unit with one-touch operation.

The unit's main number can be loaded from the software to the main unit.

The Auto Power Off time can be set on the main unit.



* The above functions are available on the PULSOX-300i only. To use these functions with the PULSOX-3, it must be connected through the IF-3 interface unit and RS-232C serial port.



Language selection screen

Multi-language support

The display, instruction manual, and help are available in six languages: English, German, French, Italian, Spanish, and Dutch. The languages can be selected easily.

User-friendly display operation


Graph displays, display range, and display time can be easily changed, not only with the menu bar and toolbar icons, but also by clicking the right button of the mouse.

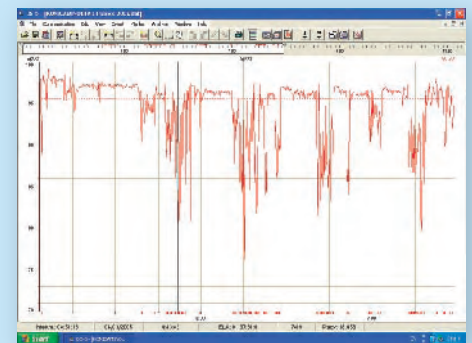


A marker indicates the point of DIP/increased pulse rate on the screen.

The various alarm signals are displayed with different event markers, allowing easy recognition of data characteristics.

Up to five preferred screen configurations can be stored and recalled (montage function).

Just clicking the  icon changes the display screen settings.



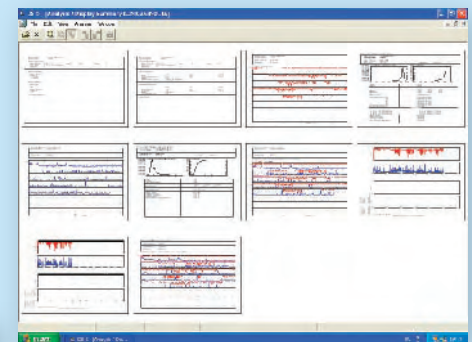
Event marker screen

A variety of easily-operated analysis functions

Analytical reports can be automatically output when a file is downloaded.

One click of the PDF button automatically created a PDF file of the analysis report (Not supported by Windows® 98SE).

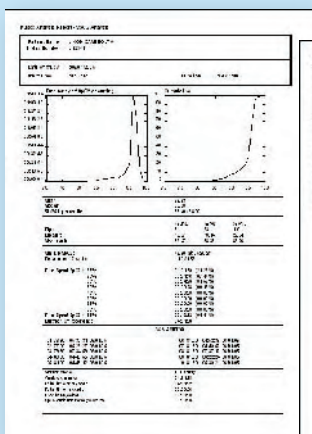
The information/analysis data of multiple patients can be compiled into a single file, and the reports of multiple patients can be printed simultaneously.



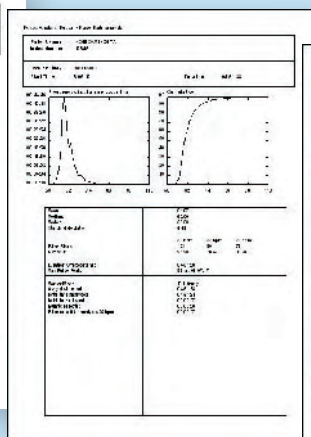
Reports display screen

[Wide range of analytical reports]

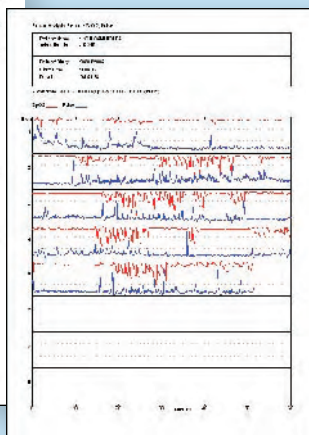
- Summary report
- Patient information report
- SpO₂ analysis report
- Pulse rate analysis report
- SpO₂/pulse rate trend graph
- 12-hour SpO₂/pulse rate trend graph
- 24-hour SpO₂/pulse rate trend graph
- SpO₂ trend graph
- Pulse rate trend graph
- Selected channel trend graph



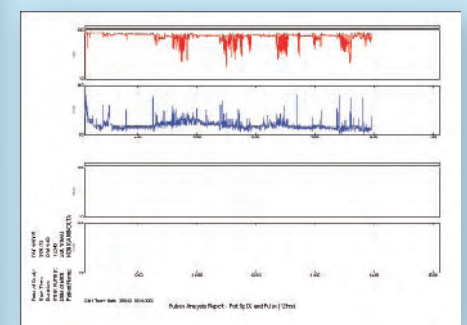
SpO₂ analysis report



Pulse rate analysis report

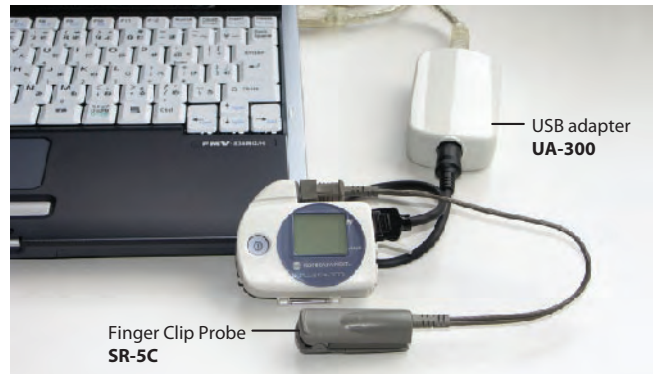
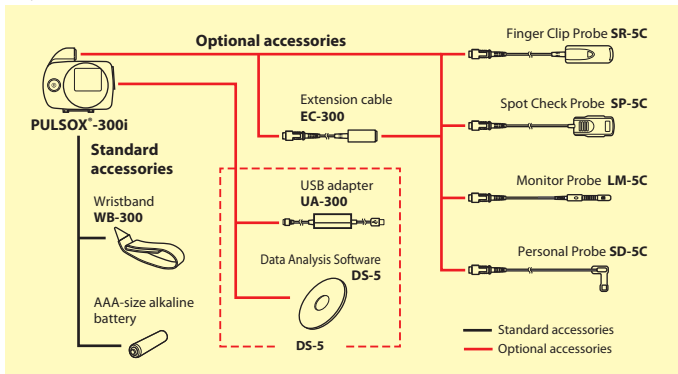


SpO₂/pulse rate trend graph



12-hour SpO₂/pulse rate trend graph

System Diagrams and Accessories



Select from 4 types of optional probes

4 types of probes are available, so you can select the best one for the application.

Finger Clip Probe SR-5C (0.3 m)



For continuous measurements with the main unit worn on the wrist.

Spot Check Probe SP-5C (0.5 m)



For face-to-face measurements in clinics or hospitals.

Personal Probe SD-5C/SD-5C (20) Package of 5 (0.5 m)



For single-patient use to avoid infection.

Monitor Probe LM-5C (0.3 m)



For continuous measurements over a long period of time such as while sleeping.

Main specifications

■ Dual-wavelength pulse type (665 nm/880 nm) arterial blood oxygen saturation measuring instrument

- Name: Oxygen Saturation Monitor
- Model name: PULSOX-300i

■ Functions:

- Measuring range: SpO₂: 0 to 100% SpO₂
Pulse rate: 30 to 230 bpm
- Accuracy: SpO₂: ±2% SpO₂ (70 to 100% range, 1S.D.)
Pulse rate: ±2 bpm (30 to 100 range)
or ±2% of value (100 to 230 range)

■ Display

Display type: Liquid crystal display (with back-light function)
Oxygen saturation (SpO₂), Pulse rate number, Pulse level meter (8 steps),
Battery indication (3 steps), Error messages indication

■ Warning functions

SpO₂: Low SpO₂ warning (flashing display)
Battery indication, Error message indication

■ Memory function (Up to 300 hours at one-second intervals)

Oxygen saturation (SpO₂), pulse rate, measurement date/time

■ Operating conditions

Temperature/humidity range

0 to 40°C (32 to 104°F); 30 to 85 % relative humidity with no condensation

Atmospheric pressure/altitude range

700 to 1060 hPa (altitude: -400 to 3000 m)

■ Storage conditions


Temperature/humidity range

-10 to 60°C (14 to 140°F); 10 to 95% relative humidity with no condensation

Atmospheric pressure/altitude range

700 to 1060 hPa (altitude: -400 to 3000 m)

■ Power

1 AAA-size battery; 1.5 V , 100 mW (Service life under continual usage: approx. 30 hours with alkaline battery)

■ Dimensions (W X H X D)

68 X 58 X 15 mm

■ Weight

56g (including battery/excluding wrist band and probes)

■ Usable life

6 years [Verified by KONICA MINOLTA SENSING, INC. (based on own data)]

Extension Cable (optional) EC-300 (1 m)



Connects between the probe and main unit to allow the probe to be positioned further from the main unit.

DS-5 software operating environment

• PC Specifications (in addition to monitor, mouse, and keyboard)

- CPU:** Intel Pentium 3, 600 MHz or higher
- Memory:** 128 MB or more
- Storage device:** One hard disk drive
(Free disk space of 100 MB or more is recommended. *1)
- Monitor:** 1024 x 768 (SVGA) or more
- Other:** One optical drive *2 (required for installation)
One USB port or serial port *3
Printer supporting one of the following OS
(When printing is required)

- *1: Installing this software requires 40 MB of free space on the drive where the Windows system has been installed. The amount of free space required depends on the amount of data to be stored. To install the software in a location other than the current drive, you need to reserve the required free space on the destination drive.
- *2: An optical drive means a drive supporting CD-ROM media, such as a CD-ROM drive, a DVD-ROM drive, or a DVD-R drive.
- *3: The PULSOX-300i requires a USB port supporting USB 1.1 or higher. The PULSOX-3i Series requires an RS-232C serial port.

• Applicable OS

Windows®XP Pro(SP2), Windows®XP Home(SP2),
Windows®2000 Pro(SP4), Windows®98SE

* Windows®XP Pro64(Professional x64 Edition) is not supported.

• Specifications are subject to change without notice.

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SAFETY PRECAUTIONS



For correct use and for your safety, be sure to read the instruction manual before using the instrument.

- Be sure to use the specified batteries. Using improper batteries may cause a fire or electric shock.