

FastFocus^{'''}

WIRELESS VITAL SIGNS MONITORING



Respiration



Oxygen saturation



Pulse rate



Physical activity



Posture



VITAL SIGNS MONITORING SYSTEM*

The sustainable trend-monitoring solution for the frequent and remote measurement of vital signs, including posture and movement intensity. The use of this system contributes to improving the quality of care and enables caregivers to act quickly and proactively at the first signs of deterioration. Thanks to frequent measurements, healthcare professionals gain a more complete picture of the health condition and recovery of patients. It facilitates organized and efficient work and provides 24/7 focus on patients who require closer monitoring.



Respiration



Oxygen saturation



Pulse rate



Physical activity



Posture

Parameter:

Measuring frequency:



*This device meets the requirements of the CE marking in accordance with the European Medical Device Regulation (EU) 2017/745



INTENDED USE

The Vital Signs Monitoring System (REF 1200) is intended for frequent non-invasive measurement of functional oxygen saturation of arterial haemoglobin (SpO₂), pulse rate, and respiratory rate during no motion conditions and measurement of physical activity, including posture and motion intensity, for the purpose of monitoring rehabilitation and early detection of deterioration of adult patients. The Vital Signs Monitoring System uses a smart, lightweight EarSensor and is intended to be used by healthcare professionals in professional healthcare facility environments, such as hospitals, rehabilitation centres, and nursing homes.



BENEFITS

- ✔ Enables early detection of deterioration
- ✔ Allows for earlier intervention to prevent deteriorating conditions
- ✔ Provides 24/7 insight into the patient's health condition
- ✔ Clearly displays the condition of all monitored patients on one screen
- ✔ Reduces the number of manual tasks (when integrated with EHR)
- ✔ Provides supporting trend graphs when involving a doctor or emergency team
- ✔ Can help to reduce registration errors
- ✔ Clear display of values with color coding according to the National Early Warning Score 2 (NEWS2)
- ✔ The smart, lightweight EarSensors (15 grams) are reusable and can be disinfected with an alcohol solution
- ✔ The wireless EarSensors are comfortable to wear, allowing patients to maintain their freedom of movement
- ✔ Less measurement disruptions due to stable measurement location (the ear)
- ✔ Added value for lung patients by measuring oxygen saturation and respiratory rate

COST REDUCTION

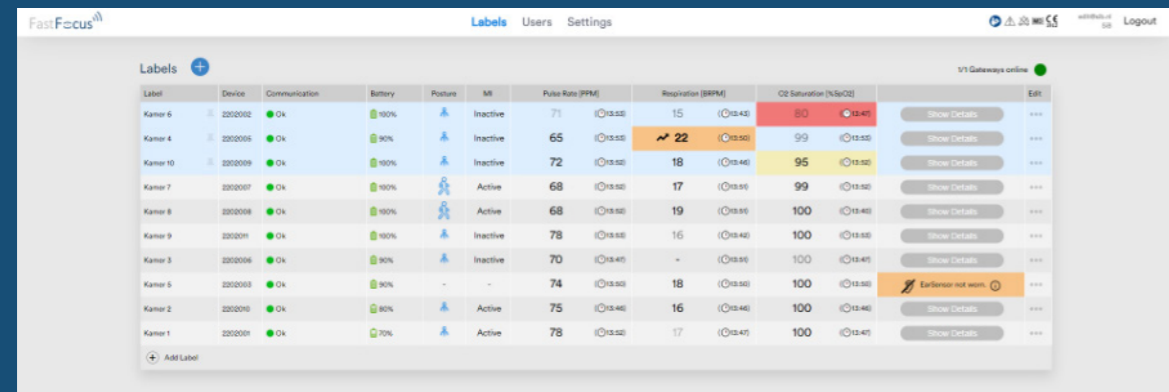
Intended goals:

- Improved patient outcomes
- Reduction in unplanned ICU admissions
- Shorter hospital stays
- More efficient patient flow
- Reduction in both registration burden and workload
- Decrease in emergency response calls



USER INTERFACE

Overview of multiple patients

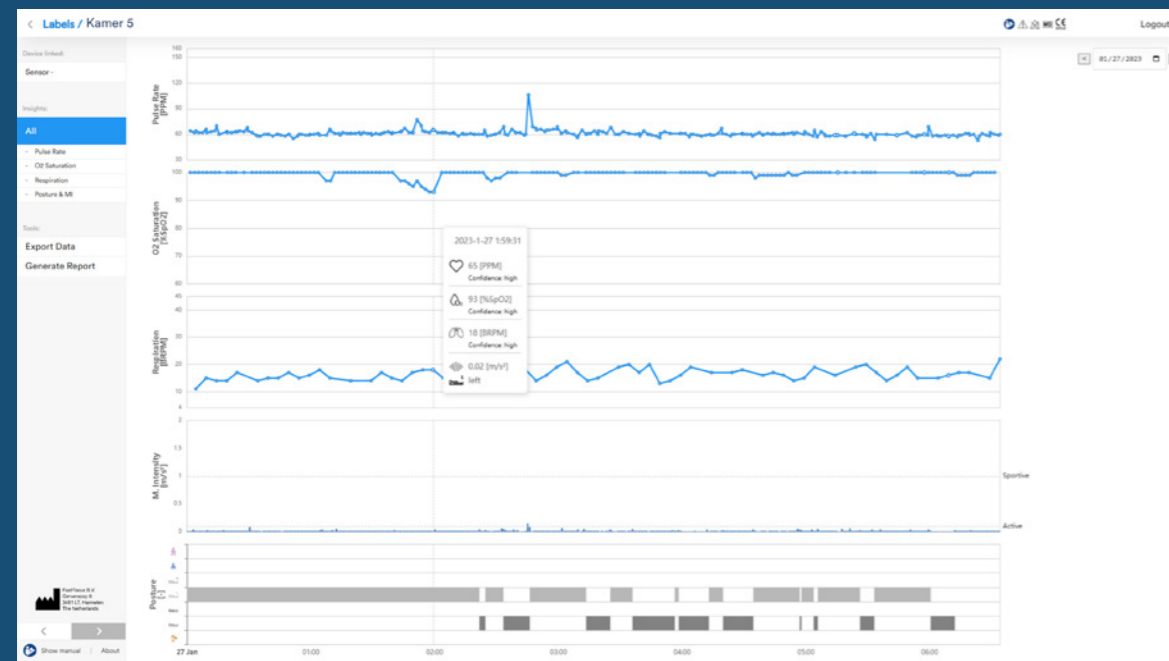


The screenshot shows the FastFocus user interface with a table of patient data. The table has columns for Label, Device, Communication, Battery, Posture, IM, Pulse Rate (PPM), Respiration (BRPM), and O2 Saturation (%SpO2). The data is as follows:

Label	Device	Communication	Battery	Posture	IM	Pulse Rate (PPM)	Respiration (BRPM)	O2 Saturation (%SpO2)	
Kamer 6	2202002	OK	100%	Inactive	71	15	99	95	Show Details
Kamer 4	2202006	OK	90%	Inactive	65	22	99	95	Show Details
Kamer 10	2202009	OK	100%	Inactive	72	18	99	95	Show Details
Kamer 7	2202007	OK	100%	Active	68	17	99	95	Show Details
Kamer 8	2202008	OK	100%	Active	68	19	100	95	Show Details
Kamer 9	2202001	OK	100%	Inactive	78	16	100	95	Show Details
Kamer 3	2202004	OK	90%	Inactive	70	-	100	95	Show Details
Kamer 5	2202003	OK	90%	-	74	18	100	95	Show Details
Kamer 2	2202010	OK	90%	Active	75	16	100	95	Show Details
Kamer 1	2202005	OK	70%	Active	78	17	100	95	Show Details

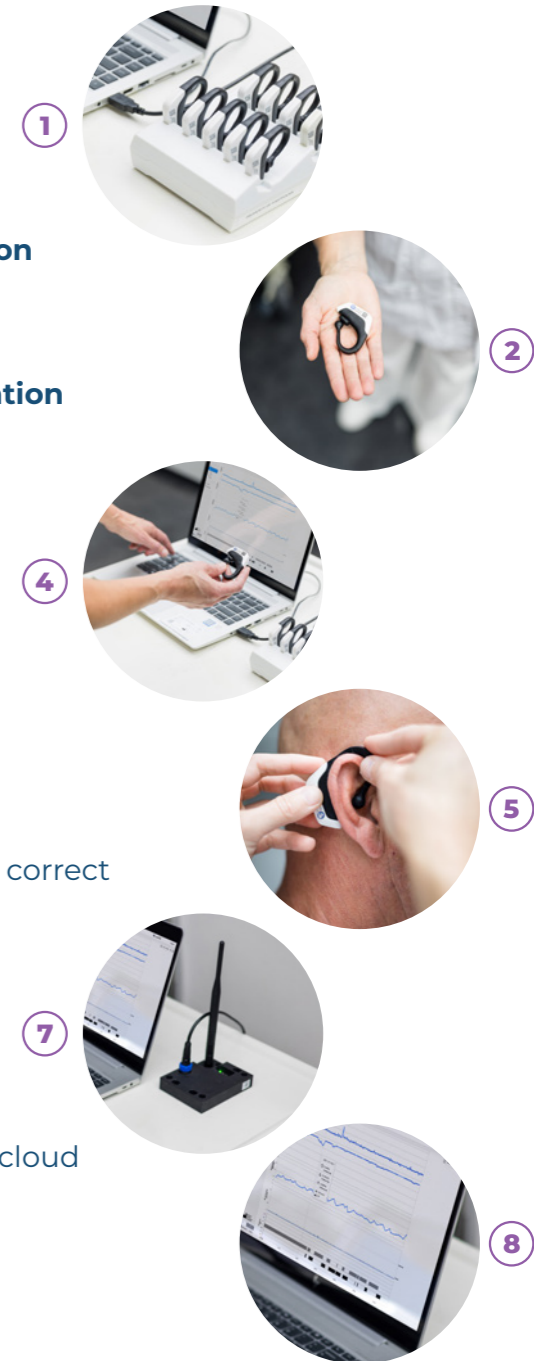
MORE INSIGHT INTO PATIENT RECOVERY

Display of trend graphs per patient, allowing early detection of deterioration



HOW IT WORKS

- 1. The EarSensor is placed in the Multi-Docking Station**
LED continuously cyan > EarSensor fully charged
- 2. Remove the EarSensor from the Multi-Docking Station**
LED flashes green > ready for placement on the ear
- 3. Create a label**
This can be done in the user interface
- 4. Link the EarSensor**
Select the correct EarSensor from the menu
- 5. Place the EarSensor on the patient**
LED continuously green for 5 seconds > placement is correct
- 6. Measurements start**
Measurements are initiated automatically
- 7. Data is transferred**
Collected data is sent via a receiver to the server and cloud
- 8. Display of patient data**
Measurement results are shown in the user interface





SAFE MONITORING, TRUSTED TECHNOLOGY

The Vital Signs Monitoring System ensures the security of patient data by using patient labels with end-to-end encryption and strict access controls, supported by our ISO 27001 certification. At FastFocus, data privacy, security, and trust are always our highest priorities.

DETAILS

Vital Signs Monitoring System



Battery life

Total battery life is 20 hours.
Fully rechargeable
within 4 hours



Base set

Includes 10 EarSensors*
and a Multi-Docking
Station (expandable)



Coverage

One system covers
an entire nursing ward



HL7 support

Integration possible with
EHR and compatible with
mobile alert systems



Memory storage

Data is stored for an
additional 15 minutes if the
system is out of range



Web-based interface

The patient overview is
accessible via a
web browser

Quick deployment possible because the Vital Signs Monitoring System can operate on its own 4G network.

**The EarSensor is splash-proof (IPX4)*



For more information or a demo, let us know.



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