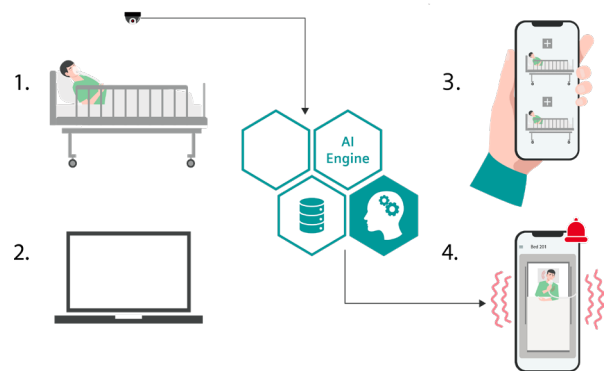# migo

Extended patient proximity

migo[1] is an innovative algorithm-based camera solution for observing hospital patients. It utilizes advanced real-time video feed information to inform hospital personnel about relevant patient movements. As an adjunction to regular hospital patient care, patients now have an extra observation.

Movement detections	Specificity	Sensitivity
Movement of left arm	93.70%	97.80%
Movement of right arm	93.30%	98.80%
Movement of left hand near face	99.80%	92.40%
Movement of right hand near face	96.60%	94.00%
Movement of eyes (blink, partially open)	81.80%	80.80%
Movement of mouth	94.30%	90.40%
Rapid movements in shoulders, head and chest indicating coughing	87.60%	91.30%
Movements of hands near each other	95.70%	98.00%
Any movement	82.70%	93.40%

1. Legal manufacturer M2Call. Distributed by Siemens Healthineers.
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Flow from user perspective

1. The camera is mounted to the ceiling above the bed.

2. Admin modul (new users, teams, wards, movement severity and notification flow).

3. The hospital personnel logs in and select movement monitoring to fit individual patient needs.

4. Hospital personnel is warned if the patient moves, and the hospital personnel can assees the situation by looking at the video feed before accepting or escalating the notification.

migo is a non-invasive patient monitoring solution designed to provide safe and uninterrupted patient care.

Notification escalation

| Primary	1	Secondary	2	Team

The default notification escalation setup will forward the notification if not reacted upon within 120 seconds or if rejected.

migo: GDPR Compliance and Operational Resilience

migo is fully compliant with GDPR, ensuring privacy and data security through the following measures:

1. **No Video Recording Storage:** No video recordings are stored, preserving patient privacy.
2. **End-to-End Encryption:** All data transmissions are encrypted from source to destination.
3. **Strict Access Controls:** Access to patient data is tightly regulated and restricted to authorized personnel only.
4. **Anonymized Data Handling:** Data is anonymized wherever possible to enhance privacy.
5. **Comprehensive Logging:** A detailed logging system tracks access and data handling for accountability and auditing.
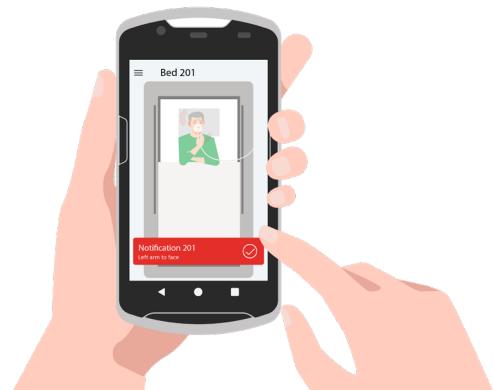
Technical Specifications

Hardware

Migo server	Amount	Specifications
GPU card	2	Nvidia 24GB VRAM
Processor	1	64 VCPU
Memory	1	256 GB
Storage	2	1 TB SSD
Cameras		
Model AXIS P3935-LR	20	HD, 25 fps
Mobile device		
Android mobile device	Min. 1	Android 10+
Other		
Admin modul	1	Webbrowser on local network

`*Hardware components for 20 monitored beds.

Software

Migo server	Specifications
migo product version	V 1.2
migo software version	V 1.3
Mobile Device Application	**Specifications**
Operating system	Android 10+
migo application	V 1.3

*CE MDR-2 approved

migo is designed as a local-only isolated solution, allowing it to operate independently and locally, even during power shortages. It can seamlessly switch to the hospital's emergency power supply, ensuring continuous monitoring.

Hardware requirements
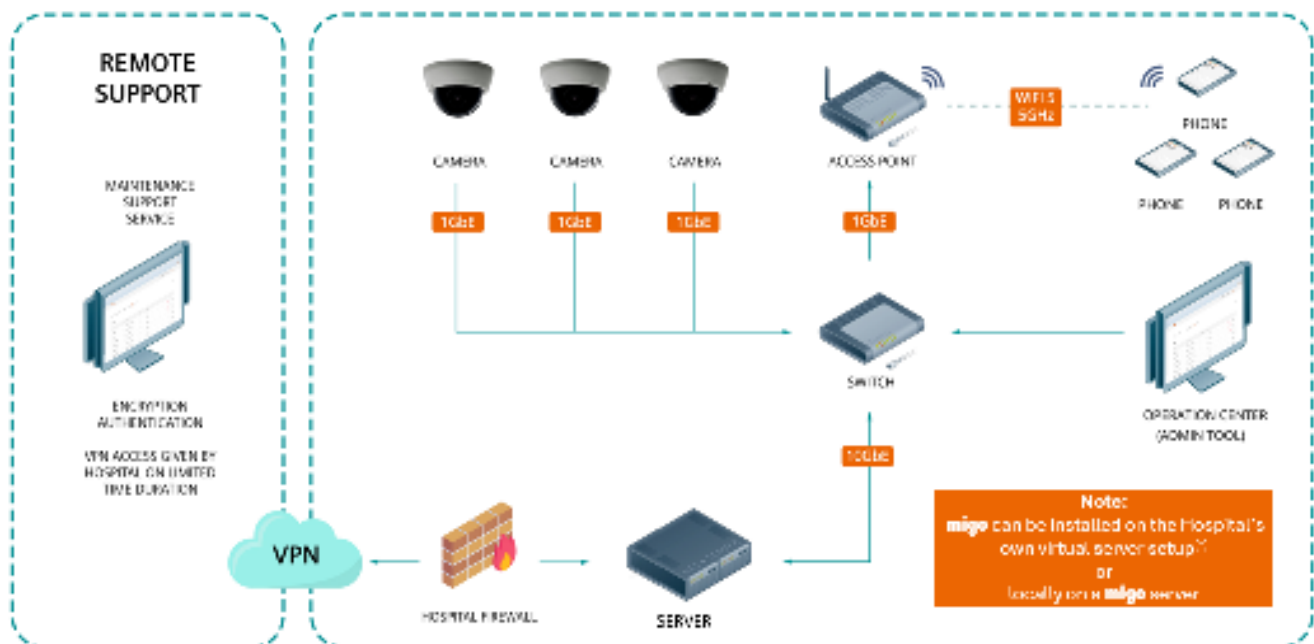
* Needs to fulfill the migo software minimum hardware requirements

It is expected that the customer will provide the sufficient Wi-Fi connection, LAN, mobile devices (white label list) and Server Rack space for the solution.

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