

Product Portfolio **2009**

MedLogics

Fall Prevention

DAZA Opticare



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DAZA Opticare has developed a range of electronic aids that improve the wellbeing of patients and reduce the workload of the healthcare staff. The DAZA products are used by psycho-geriatric, somatic and handicapped institutions, home care and hospitals around the world. All DAZA devices send a wireless alarm either via the DAZA receiver to any nurse call system or to a separate stand alone DAZA Pager. The DAZA pager can be used in situations where no nurse call system is installed e.g. small institutions or home care situation

Solutions

The physical protection of the patient is an important aspect of patient care. In the past, preventative restraint was used, but this is now quite rightly regarded as inhumane. Because of this more and more institutions are now switching to the preventative monitoring of situations in which danger to their patients may arise, for example the threat of falling or roaming around the building.

This monitoring can take place at the moment when the patient prepares to get out of bed (with the [Optiscan](#)) or rise from a chair (with the [Optiseat](#)). But also in the case of permitted restricted freedom of movement around a room, our [Door Contact](#) can monitor whether the door to the room is opened by the patient. In situations when the patient falls, our [Man Down Transmitter](#) immediately sends an alarm signal.

Optiscan

The Optiscan fall prevention sensor incorporates a unique combination of infrared technology, dedicated software and wireless technology. The Optiscan has proven to be a reliable and flexible alarm system in the prevention of falls. The Optiscan sensor registers if the patient is trying to get out of bed. The alarm is sent to the nursing staff. This early alarm signal gives the nurse the opportunity to respond swiftly so that serious harm can be prevented.

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Research has shown that with the use of the Optiscan, the number of fall incidents can be reduced considerably. In practice, it appears that 85% of the patients are still on the edge of the bed when the care staff arrives in the room

By using the Optiscan, the need to restrain patients is reduced to an absolute minimum. As soon as the patient begins to pose a risk to himself, the Optiscan sends an alarm to the nursing staff. Because of this, restraint is unnecessary in most cases, which is a lot more humane.

Positive additional benefits

For patients who get up during the night it is apparent that regular monitoring with the Optiscan helps their daytime and night time rhythms return to a more natural pattern. Additionally the prevention of undesirable behavior such as the emptying of wardrobes, getting dressed at night, disturbing other patients, urinating on the floor etc are all considered to be positive additional benefits of the use of the Optiscan. The high workload which accompanies these kinds of incidents is being reduced considerably. The Optiscan has a replaceable lithium battery with an average lifespan of 2 to 2.5 years. A low battery warning ensures that the Optiscan will not fail unexpectedly.

With the Optiscan:

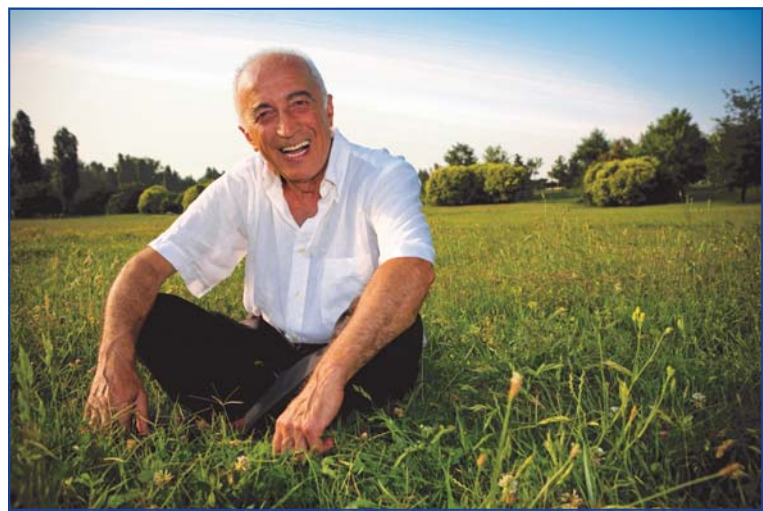
- The incidence of falls is reduced to an absolute minimum.
- 85% of the patients are still on the edge of the bed when the care staff arrives after the call.
- Patient intervention is swift which enables patients to regain their day and night rhythms.
- Reduction in staff workload.

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“85% of the patients is still on the edge of the bed when the nurse arrives after an alarm with the Optiscan”

“In contrast to other bed exist alarms, the Optiscan makes an alarm when the patient is trying to get out of bed, and not when the patient is already on his feet”



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Optiscan models

Wireless Optiscan:

The most used Optiscan sensor. This is a flexible mobile unit which sends a wireless signal to the Nurse Call system or DAZA Pager.

Optiscan Fixed Model

This version has the same features as the Wireless Optiscan but is fixed to the wall and connected to the nurse call system by a cable. This version needs to be integrated into the nurse call system and should be equipped with the facility for the alarm to be switched off via an on/off switch (preferably situated near the door)

Topscan

The Topscan is applied in cases where an extremely quick response is required. The Topscan registers if a patient tries to get up. The Topscan sensor has an amended lens construction for quick reaction. If the sensor is placed approx. 45 cm above the mattress the client can move around in bed because he/she stays beneath the Topscan's detection field. If the client sits up however, his/her head enters the detection zone which creates the required alarm. The Topscan can be supplied as a wired or a wireless version.

Inactivity Sensor

In contrast to the Optiscan, the Inactivity sensor gives an alarm when no movement has been detected within the preset time interval (3 to 24 hours). The inactivity sensor is used where social control is not available and where a sign of life is required. This sensor can be supplied as a wired or wireless version.

Wireless Optiscan



Optiscan Fixed



Topscan



Inactivity Sensor



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Optiseat

The unique and comfortable Optiscan cushion is equipped with a sensor that registers pressure. If the client stands up, the Optiseat responds immediately with an acoustic signal (the duration is adjustable). If the client stays out of the Optiseat for longer than the set time an alarm is sent to the care staff.

Advantages of the Optiseat

The number of falls is considerably reduced.
The Optiseat has a preventive effect because some clients are alerted by the delay-signal.
Reduced workload for the health care staff.
Use of the Optiseat means there is less need for restraint which makes it a more humane product.

Features of the Optiseat

A comfortable, flexible cushion made of waterproof, oxygen-transferable, anti slip material.
Duration of the delay-signal can be adjusted.
The Optiseat gives a signal when the health-care staff forgets to switch the Optiseat on.
Easy usage with a single button.

Door Contact

The door contact is attached to the door frame outside the room. An alarm signal is emitted when the door is opened. We supply two versions, one with and one without an on/off switch. When the version with the on/off switch is used the care staff can switch off the door contact when entering the room without making an alarm.

The door contact can be used in situations when a client is allowed to get out of bed, but should not leave the room unattended.

Pendant

The waterproof pendant transmitter comes with a neck cord with built-in safety release mechanism and belt-clip. The pendant is waterproof and can be worn under the shower. We also supply a version that offers a man down function. When the pendant is tilted to a horizontal position, it will send an alarm message.

Optiseat



Door Contact



Pendant



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Emergency Watch

Elderly people who have an emergency alarm (pendant) to call for help in case of emergencies, are often not carrying them. A recent investigation revealed that 70% of the owners of a pendant alarm feel stigmatized by wearing them. The fact that they never had to use the alarm is another reason for this growing carelessness.

Yet, in the newspaper we can daily read about people who fell or suddenly became unwell. If help does not arrive quickly, a life threatening situation may arise. The solution is this elegant watch that combines an emergency alarm with a watch. This piece of jewelry is pleasant to wear, even if you just want to know what time it is. There is no barrier and no sense of stigmatization.

The Switch Watch come with a leather band for wearing it on the wrist as well as a medallion for wearing it as a pendant.

Communication

All DAZA products (Optiscan, Optiseat, Door contact, Pendant, Watch etc) can send their alarm signals to any nurse call system in use in nursing homes and hospitals or to a standalone DAZA pager. The DAZA pager can be used in situations no nurse call system is installed e.g. home care or small/temporary care facilities



Emergency Watch



Receiver

Communication with Nurse Call system

When using the DAZA products in combination with a Nurse Call system, the DAZA products don't send their alarm directly to the nurse call system but through the DAZA receiver. The receiver is placed in the patients' room and by use of a connection cable connected to the nurse call system. We have numerous connection cables available and we can connect our products to any nurse call system.

Specifications Receiver

- Low battery warning for all devices connected to the receiver
- Sabotage safety application when receiver is removed from power plug
- Can be used at every nurse calling system
- Can also be used without nurse calling system (acoustic version)
- Possible to program up to 16 devices per receiver



All DAZA products can be connected to the existing nurse call system

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Program Unit

With the program unit it is possible to program/delete devices into/from the receiver. Additionally the program unit can be used to adjust time settings like: relay alarm duration, buzzer alarm duration, button press duration to switch on/off the receiver alarm delay time and man-down delay.



Pager

Program Unit



Communication with DAZA Pager

In case no nurse call system is present we have another solution, the DAZA Pager. All DAZA products can communicate directly with the Pager. This makes the Pager ideal not only for home care situations, but also for use in professional care institutions. Departments within care institutions in which no infrastructure for a nurse calling system exist also come to mind, or for example places for temporary reception or journeys made by residents.

Either 16 or 32 DAZA items of equipment can be 'scanned' into a pager, according to preference. This can be a complete configuration with various peripheral equipment, or for example, individual DAZA Optiscans or neck transmitters can also be selected. During an alarm, a digit from 0 to 99 appears on the display, depending on which room the alarm comes from.

With the Pager it is therefore very easy to create a complete nurse calling system without the necessary infrastructure and fitting. The system is also completely wireless.

The Pager has a clear, bright display and can easily be clipped to a breast or trouser pocket. When activated, an acoustic signal or a vibration signal or both can be selected. For the power supply it uses an extremely durable lithium-ion battery which often only needs to be charged once a week.

Range

In the home environment, the range is totally sufficient for all situations. An average distance of 50 meters can be covered, however this distance depends upon building construction and can be influenced by external factors (for example by the presence of steel structures). You should therefore always test the range before commencing use.

In the event of a greater distance to be covered, which can be the case in care institutions, a signal amplifier (repeater) can be installed in a simple way. This signal amplifier does not require any operation and only needs an electric socket. All the signals received are relayed by the signal amplifier to the Pager or to a following amplifier. It is possible to cover great distances in this way.

Features Pager

- Complete Wireless Technology.
- Space for 16 or 32 items.
- Acoustic and Vibrating alarms.
- Large Battery capacity due to lithium ion battery.
- Standard range approx. 50 meters.
- Range can be extended with amplifiers.

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Let's give you an example

Mr. Jones suffers from Alzheimer's disease and spends a lot of time in bed, but sometimes he gets up. Because of this he poses a risk to himself. The Optiscan registers Mr. Jones' attempt to get up and sends a signal to the Optipager which Mrs. Jones is carrying around with her. She is now aware of the situation and can act immediately. When Mr. Jones is not asleep, he sometimes wants to call someone for help. The waterproof neck transmitter (which can be used under the shower) gives him the opportunity to call for help at any time. This knowledge gives him peace of mind and confidence.

During the day, Mr. Jones often sits in his chair. To prevent him leaving his chair unnoticed, the Optiseat sends an alarm when he stands up. This detection cushion has anti-decubitus material in the upholstery which increases comfort. To prevent Mr. Jones leaving the house without Mrs. Jones' knowledge, the doors can be equipped with a magnetic door contact. Now he will never be able to leave the house unnoticed. If - despite all these precautions - a fall should occur, the man-down switch (which can be clipped to the belt of his trousers) will immediately send an emergency signal to the pager.

In Short: The caregiver enjoys much greater peace of mind and does not have to be 'on guard' at all times. This means that she will be able to care for her husband at home for much longer now

