# TECHMEDIC

Telemonitoring
Hospitals

**"The Dyna-Vision Telemonitoring System is designed to enhance patient safety: better for the patient, better for the clinician and better for the hospital"**

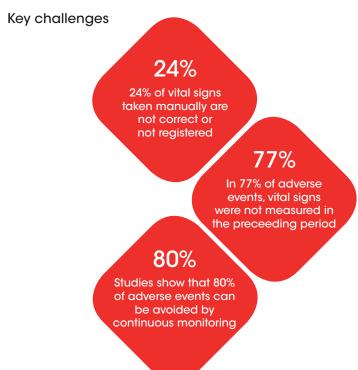## Let our solutions address your day to day challenges

The Dyna-Vision System is a flexible and ambulatory patient-worn monitoring solution that goes far beyond the capabilities of traditional patient monitors. It helps enhance patient care by providing wireless and near real-time monitoring and clinical decision support aiding caregivers on the general floor in the early recognition of patient deterioration. This innovative, easy-to-use, and multi- purpose monitoring solution offers 3-, 5- and 12-lead diagnostic ECG, Heart Rate, SpO2, Plethysmogram, Respiration, SkinTemp, and Continuous Non Invasive Blood Pressure*.

The Dyna-Vision device is a continuous transmitter that uses built-in Wi-Fi and 3G radio's for reliable longer-term ambulatory monitoring, and its Early Warning Score (EWS)* feature allows the Dyna-Vision device to immediately detect vital changes with high accuracy.

The ECG arrhythmia detection supports non-stop surveillance of cardiac patients regardless of where they stay in the medical facility.

Because the Dyna-Vision device also embeds 3G for near real-time transmission, it is highly suitable for seemless and uninterrupted monitoring of patients from their homes. The Dyna-Vision Telemonitoring System offers reliable monitoring for and between hospitals, nursing homes and the patient's home.
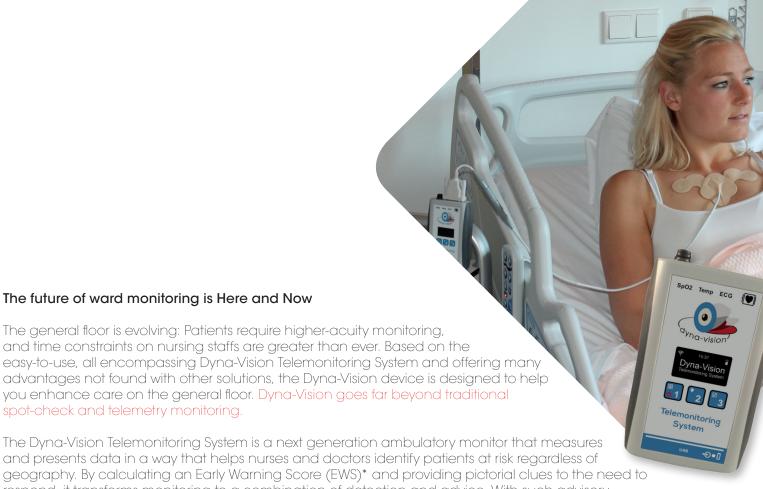
The single-use CasperPatch sensor is used with the Dyna-Vision device to measure ECG, Skin Temperature and Respiration. By its unique and patented design it eliminates risk for lead-off alerts, cable entanglement and transmission of micro-organisms from one patient to the other to reduce the risk for Hospital Acquired Infections (HAI). CasperPatch helps avoiding false alarms and alarm fatigue. The design of the sensor makes it very easy to apply it to the patient.

## Key challenges

**24%**
24% of vital signs taken manually are not correct or not registered

**77%**
In 77% of adverse events, vital signs were not measured in the preceeding period

**80%**
Studies show that 80% of adverse events can be avoided by continuous monitoring

## Key advantages

Dyna-Vision enables early recognition of deteriorating patient condition to prevent treatment delays:

- May avoid adverse events and readmissions to the ICU
- Built-in Wi-Fi and 3G radio for seemless and flexible ambulatory patient monitoring
- Dyna-Vision user interface optimized for ease of use on the general floor
- Patient monitoring is no longer exclusive to critical care units.
- Any patient regardless of their location can now be kept under full surveillance
- Unique sensor to reduce false alarms, avoid HAI's and increase comfort of patients and their caregivers.

* For investigational use only

## The future of ward monitoring is Here and Now

The general floor is evolving: Patients require higher-acuity monitoring, and time constraints on nursing staffs are greater than ever. Based on the easy-to-use, all encompassing Dyna-Vision Telemonitoring System and offering many advantages not found with other solutions, the Dyna-Vision device is designed to help you enhance care on the general floor. Dyna-Vision goes far beyond traditional spot-check and telemetry monitoring.

The Dyna-Vision Telemonitoring System is a next generation ambulatory monitor that measures and presents data in a way that helps nurses and doctors identify patients at risk regardless of geography. By calculating an Early Warning Score (EWS)* and providing pictorial clues to the need to respond, it transforms monitoring to a combination of detection and advice. With such advisory and notifications on various handheld devices, Dyna-Vision is the future of ward monitoring.

## Better monitoring, faster response

- Hospitals have the unique ability to take an existing escalation protocol and automate it by the user-configurable alert settings feature in the Dyna-Vision Telemonitoring System.
- Provides best-in-class, continuous monitoring and analysis, superb ease of use, and innovative Clinical Decision Support to improve workflow and patient care in a variety of care settings.
- Continuous wireless patient monitoring on the general floor.

## Fast track your escalation protocol

The Dyna-Vision Telemonitoring System aids your hospital's escalation protocol system by enabling quicker activation and intervention of the escalation team, compared to current practice.

Because the Dyna-Vision Telemonitoring System is fully configurable, it helps hospitals to standardize calling criteria to meet their specific patient population needs, both inside and outside the hospital.

Once the escalation team has arrived, the monitor can provide full disclosure ECG and vital signs monitoring. The Dyna-Vision Telemonitoring System uses wireless radio's allowing ambulant and remote monitoring under any circumstance.

The Dyna-Vision Telemonitoring System enables multi-patient continuous ECG and vital signs monitoring with full arrhythmia and ST Map monitoring Support.

The Dyna-Vision Telemonitoring System includes Central Workstations and Android and iOS Smartphone Apps for near real-time monitoring of all patients wearing a Dyna-Vision device.

* For investigational use only

**Better for the patient:**

Through immediate and non-stop access to near real-time ECG and vital signs from virtually anywhere, the Dyna-Vision Telemonitoring System allows for more individualized and timely care.

**Better for the clinician:**

The Dyna-Vision Telemonitoring System provides continuous ECG and vital sign information for all of your patients at your finger tips regardless of geography: when you want it and when you need it.

**Better for the hospital:**

The Dyna-Vision Telemonitoring System is designed to enhance overall care by helping to avoid expensive, preventable escalation of care and adverse events.

## Specifications

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| **Lightweight** | for optimal ambulatory use |
| **Up to 30 hours of battery operation** | when used in Wi-Fi transmission mode |
| **When no wireless network is available** | the device uses its built-in 3G radio transmission |
| **Central workstation** | for multi-patient monitoring |
| **Alerts** | based on user changeable thresholds and send to mobile devices |
| **Plug-and-play solution** | for easy installation and operation |
| **Prevents readmissions** | by early detection of abnormal vital signs |

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