

TECHMEDIC



General
Information

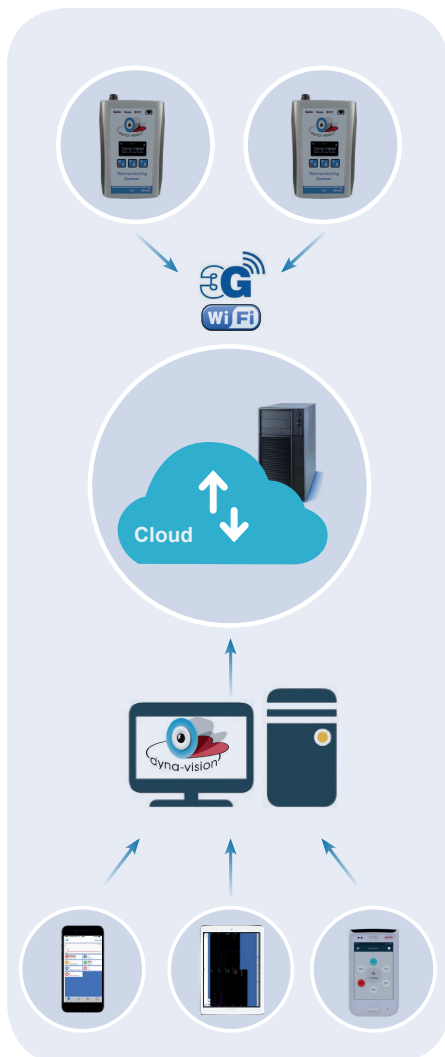
Dyna-Vision Telemonitoring System

The Dyna-Vision Telemonitoring System is designed to continuously measure and transmit the Electrocardiogram (ECG) and vital signs to allow remote patient monitoring, regardless of geography.

The system features early detection of abnormal vital signs with alert escalation to mobile devices, therewith reducing the risk for adverse events throughout the entire hospital stay and after.

Dyna-Vision technology uses built-in data communication for remote monitoring of your patients, even when they are outside the hospital.

The Dyna-Vision Telemonitoring System assists you achieving unequalled outcomes with your patients.



Dyna-Vision device

The Dyna-Vision device transmits data to the Dyna-Vision Server from where it can be accessed by the Dyna-Vision Telemonitoring Software and Smartphone Apps for near real time monitoring.

Data transmission is by Wi-Fi or 3G.

Dyna-Vision server

The server can be located in a hosted data center (cloud) or in the hospital network (local). The Dyna-Vision Telemonitoring Software and Smartphone Apps do not have to be in the same network as the Dyna-Vision devices.

Monitoring can take place anywhere and anytime.

Dyna-Vision telemonitoring software

The software is installed on computers for monitoring at different locations, inside and outside the hospital. All installations monitor the same patients through the server.

The software features patient data management, near real time monitoring, alert detection and display, easy reporting of all recorded data and interfaces with electronic medical records.

Dyna-Vision telemonitoring apps

The telemonitoring app is available for Android and iOS. Both can be downloaded from the add App stores stores free of charge. The credentials for the PC software are used to access the near real time ECG and physiological data, display and push messages of alerts for all patients.



Dyna-Vision unit

The Dyna-Vision unit is a battery powered medical device intended for remote monitoring of ECG and physiological data in near real time using PC software or Smartphone Apps.

Operation

Operation of the device is kept simple by single button control.

Parameters

After turning the device on, it monitors and transmits 3, 5 or 12 lead ECG, SpO2, plethysmogram, Respiration and Skin Temperature and beat-to-beat Non-Invasive Blood Pressure*.

The system performs full ECG arrhythmia diagnostics including ventricular and supra-ventricular rhythms, RBBB, LBBB, AV block, Pause, QT, QTc, ST changes, ECG lead map and many others.

Pulse Wave Transit Time Blood Pressure

Pulse Wave Transit Time is used to calculate beat-to-beat systolic and diastolic blood pressure*.

Wireless

Built-in radios automatically connect to a Wi-Fi or cell phone network for near real time data transmission to the Dyna-Vision Telemonitoring Server.

Sensors

- The CasperPatch is a single-use adhesive sensor for 5-lead ECG and skin temperature measurement.
- It eliminates the use of separate lead wires and reduces artifacts by 40%.
- CasperPatch connects to the Dyna-Vision device by a single wire and connector for optimal comfort of the patient.
- The patch is water proof and allows the patient to shower without replacing the sensors.
- It lasts 3 to 5 days.

For SpO2, a single-use or reusable fingerclip sensor or ear sensor is used.

* For investigational use only



ECG cables

Dyna-Vision can also be used with classic ECG lead wire cables for 3-lead, 5-lead and 12-lead ECG testing. These cables work with standard ECG adhesive electrodes. Using the CasperPatch for the ECG eliminates the classic ECG wires.

Patient Monitoring Software

Dyna-Vision Telemonitoring Software and Smartphone Apps offer non-stop surveillance and immediate alerting when vital signs are changing.

Telemonitoring Software

The Dyna-Vision Telemonitoring Software is a Windows® based program used to register patients, manage devices, configure alerts, monitor ECG and physiological data in near real time and to display and record alerts.

All data can be printed in high-resolution PDF reports or stored for later use.

The software features easy-to-use reporting tools to create on-event, daily and session reports with a single mouse click.

High resolution event strips are part of the alerting and reporting system.

Telemonitoring Apps

Dyna-Vision Smartphone Apps are available for Android and IOS and feature full telemonitoring features. Monitor any patient at any given time from the palm of your hand!



Specifications Dyna-Vision Unit

General

Dimensions:	130 x 79 x 33 mm
Weight:	+/- 270 gram
Power:	4500 mAh Internal rechargeable battery
Operation time:	max. 15 hrs real-time 3G max. 30 hrs real-time Wi-Fi
Charging time:	6 hours
Event button:	Yes
Controls:	Ruggedized foil with integrated buttons
Charger:	USB charger

ECG

Leads:	3, 5 or 12 (I, II, III, AVR, AVL, AVF, V1-V6)
ECG cable:	3, 4, 5 or 10 lead wires
Sample rates:	200, 400, 800 and 1,000 Hz

SpO2

Range (SpO2):	70 to 100%
Rate Range:	35 to 250 bpm
Type:	Infrared 910 nanometers @ 3mW

Temperature

Type:	Disposable integrated in adhesive ECG Patch
Accuracy:	+/- 0.2 °C

Wi-Fi

Type:	2.4 GHz IEEE 802.11 b/g/n transceiver
Frequency:	2.402 to 2.480 MHz
Encryption:	WEP 128-bit/WPA-PSK/WPA2-PSK
Certificates:	FCC/CE/ICS and RoHS compliant

Cellular Modem

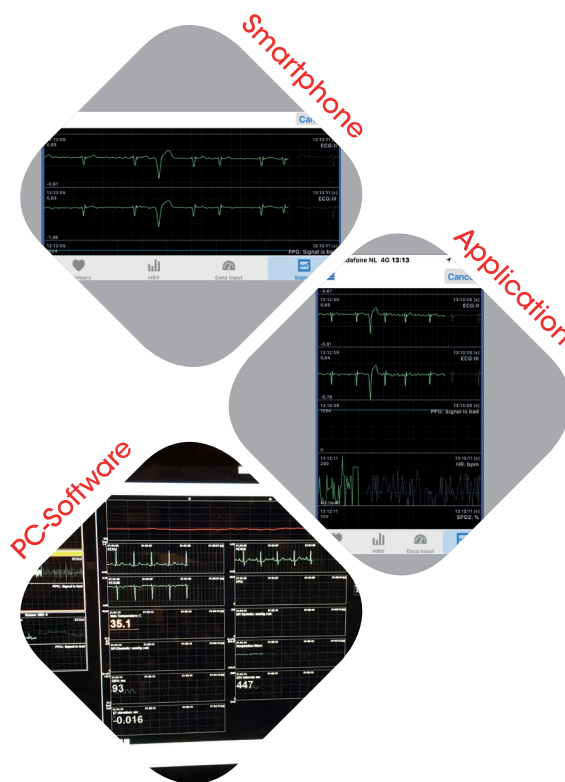
Operation frequencies:	800/850/900/1800/1900/ 2100 mHz GPRS/Edge UMTS/HSPA + FDD (I, II, V, VI, VIII)
Certificates:	R&TTE, FCC, GCF, PTCRB, UL, IC, CE

GPS

Type:	GPS and GLONASS
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USB

Type:	C
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iOS is a registered trademark of Apple, Inc.

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Rx Only. Refer to the Dyna-Vision Telemonitoring System User Manual for Indications for Use, Contraindications, Warnings, Precautions, Description, Set-up, and Operation.

Techmedic, 338 Jericho Turnpike,
Syosset, NY 11791, USA, 800-217-0520
www.techmedic-usa.com

