GE Healthcare

ApexPro CH Telemetry

Connecting intelligence and care.

Expanding the power of telemetry.

Telemetry is an important technology in today's healthcare environment. With patient care and outcomes among your concerns, GE Healthcare's ApexPro® CH telemetry system delivers exceptional reliability and clinical technology to help reduce the possibility of transmission interference, dropout and downtime.

ApexPro CH integrates with CARESCAPE™ Enterprise Access, GE's distributed antenna system solution, giving you the option to unite clinical intelligence across the enterprise under one halo of wireless coverage. This single-infrastructure approach provides more channels, coverage area and flexibility to deploy ApexPro CH telemetry wherever you need it.

Stronger together.

ApexPro CH relies on an exceptional networking infrastructure operating in the Wireless Medical Telemetry Service (WMTS) spectrum for dependable communication of vital patient information. Multiple WMTS frequency bands are accommodated within the CARESCAPE Enterprise Access multi-use wireless infrastructure, providing you the capacity and flexibility to meet your telemetry demands.

As part of GE's comprehensive wireless solution, ApexPro CH delivers the relevant clinical intelligence to help caregivers respond to critical situations faster and work more productively. Together with the comprehensive GE Healthcare suite of mobile, remote and bedside monitoring technologies, ApexPro CH helps you deliver information to the critical point of clinical decision-making.

Maximizing capacity and coverage.

ApexPro CH offers a WMTS-protected, wireless patient monitoring system that helps protect against signal interference and dropout. The system operates in both the 608 to 614 MHz and 1395 to 1400 MHz ranges, giving you flexibility and scalability to reduce the possibility of external interference in any RF environment.

The CARESCAPE Telemetry T14 Transmitter expands the capacity of the ApexPro CH telemetry system, enabling you to monitor up to 438 patients across the coverage area. This accommodates today's requirements while helping to ensure capacity for future expansion.

ApexPro CH includes exclusive GE technologies such as quad-diversity antennas, which search up to four separate antenna fields each second for the best signal from each patient. It also features Dynamic Spatial Adaptive Attenuation (DSA2) technology to provide even and continuous telemetry coverage throughout the hospital.

Designed to be both backward-compatible and forward-flexible, ApexPro CH enables you to extract maximum value from your telemetry system while protecting your investment over time.

The foundation for clinical quality.

Patient care and outcomes are among your top priorities. ApexPro CH addresses both with exceptional detection and analysis of patient data to help you monitor your patients' status more fully and accurately.

- ApexPro CH uses the GE EK-Pro clinical algorithm, which processes and analyzes up to five independent and simultaneous ECG leads. By this design, EK-Pro has the ability to evaluate data from the inferior, anterior and lateral walls of the heart, allowing for the detection and alarming of cardiac events that may have otherwise gone unnoticed[1]
- ApexPro CH also uses an innovative Smart Leads Fail feature that provides uninterrupted monitoring and algorithm analysis in the event of an electrode failure
- With the EK-Pro algorithm, ApexPro CH supports advanced atrial fibrillation detection and alarming. Accurate identification of A-Fib may help prevent this arrhythmia from becoming chronic through early detection and trending analysis
- ApexPro CH has the capability to monitor two V-leads on a patient. Caregivers can be vigilant for both arrhythmias and ST segment changes by monitoring both the V1 lead and a left precordial lead
- Pace detection across two vectors improves the system's ability to recognize when a patient's pacemaker is being utilized–allowing for a visual differentiation to appear on the waveform signal
- The flexible design of ApexPro CH allows each transmitter to monitor only the parameters each patient requires. Continuous monitoring of ECG and SpO_2, allow caregivers to tailor monitoring according to the patient's acuity
- Masimo uSpO2™ Pulse Oximetry Cable, utilizing Masimo SET® Measure-through Motion and Low Perfusion™ pulse oximetry technology, delivers accurate oxygen saturation (SpO_2) and pulse rate readings for a high detection of true events and a low incidence of false events. This technology may enable clinicians to intervene earlier for potentially better patient outcomes and increased patient care while simultaneously helping to reduce clinician alarm fatigue

(1) Bowman, J. A., MSEE; Earl, R. G., PhD; Haupt, N., BSEE; Hutchinson, G.M., PhD; Salvo, J., BSCE; Sitzman, D. A. MSEE. *Ventricular Arrhythmia Detection Performance of Two Commercially Available Patient Monitors Using Previously Unpublished ECG Waveforms.*

Intelligence comes in many forms.

With ApexPro CH, vital patient details are available through a variety of information viewing devices to enable constant vigilance and workflow flexibility. When clinical intelligence can be accessed in many convenient ways, caregivers are empowered to respond quickly to critical situations and take appropriate action.

ApexPro CH can be used effectively for either centralized or decentralized monitoring. Because telemetry data is accessible enterprise-wide, patients can be placed with flexibility throughout the organization while being monitored with ApexPro CH. Nurses are free to focus on patient care with the confidence that their patients receive continuous, quality monitoring.

Whether you choose centralized or decentralized monitoring, ApexPro CH can support your hospital protocol for continuous patient surveillance.

Web Viewer connects patients and caregivers virtually any time and place by enabling remote viewing of telemetry information on laptops and tablet PCs.

GE's central stations enable you to manage patient information gathered from any patient monitor on the CARESCAPE Network.

In Combination Mode, CARESCAPE modular monitors can display ApexPro CH telemetry waveforms alongside other vital signs, saving the time and inconvenience of disconnecting and reconnecting the patient to telemetry. In Rover Combo Mode, a wireless GE monitor and ApexPro CH telemetry together create a powerful mobile monitoring solution.

Patient monitoring no longer operates in a silo. Ease of use and continuous, connective flow of patient data make wireless patient monitoring simpler and more efficient. ApexPro CH puts vital information in caregivers' hands wherever they are, at the moment they need it most.

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imagination at work

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