

ApexPro

Enterprise-wide telemetry



Expanding the power of telemetry.

Telemetry is an important technology in today's healthcare environment. With patient care and safety as your primary concerns, the GE Healthcare ApexPro® telemetry system delivers proven reliability and exceptional clinical technology that reduces the possibility of transmission interference, dropout and downtime.

Built on GE's legacy of quality and innovation, ApexPro offers a flexible, reliable way to deploy telemetry wherever it is needed.

Stronger together.

ApexPro relies on an exceptional networking infrastructure operating in the 420-460 MHz frequency band. This custom-designed infrastructure gives you the flexibility and scalability to help provide interference-free wireless transmissions within your specific RF environment. Because GE delivers “coverage area” rather than “infrastructure equipment,” you are assured of comprehensive, reliable coverage across the entire area you need.

As part of GE’s comprehensive wireless solution, ApexPro delivers the relevant clinical intelligence to help caregivers respond to critical situations faster and work more productively. Together with GE’s comprehensive suite of mobile, remote and bedside monitoring technologies, ApexPro helps you deftly manage Clinical Information Logistics™ across the enterprise by delivering information to the critical point of clinical decision-making.



The power of reliable coverage.



GE vital signs monitors use exceptional algorithms, including GE DINAMAP® SuperSTAT™, Alaris® Turbo Temp® and a selection of SpO₂ technologies. The captured measurements are sent to the central station when a DinaLink cable is connected to the ApexPro transmitter.

ApexPro offers a wireless patient monitoring system that helps protect against signal interference and dropout. Within the 420-460 MHz frequency band, GE custom-designs the ApexPro telemetry infrastructure for your unique RF environment to filter out “noise” that could interfere with telemetry signals.

ApexPro includes exclusive GE technologies such as quad-diversity antennas, which search four separate antenna fields each second for the best signal from each patient. It also features DSA²™ technology to provide even and continuous telemetry coverage throughout the hospital. Backed by GE’s standard of quality and performance, ApexPro helps enable you to deliver safe, high-quality care across your enterprise.

Designed to be both backward-compatible and forward-flexible, ApexPro enables you to extract maximum value from your telemetry system while protecting your investment over time. This helps to ensure that vital patient data is transmitted using a redundant, interference-free network that operates independently of your other Wi-Fi networks.



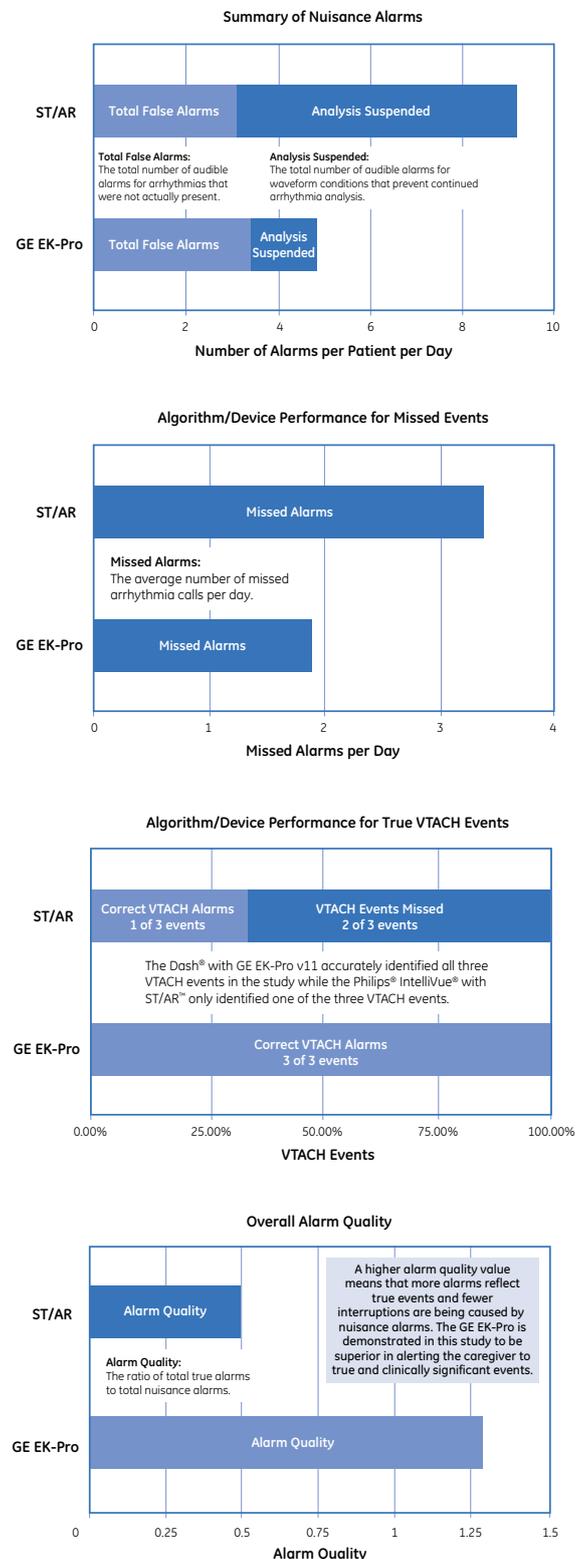
The foundation for clinical quality.

Patient safety and outcomes are among your top priorities. ApexPro addresses both with exceptional detection and analysis of patient data to help you monitor your patients' status more fully and accurately. With ApexPro telemetry, clinical excellence is never compromised.

- ApexPro uses the GE EK-Pro clinical algorithm, which processes and analyzes four independent, simultaneous ECG leads — meeting and exceeding stringent AHA guidelines. Plus, an innovative Smart Leads Fail feature significantly reduces false ECG alarms.
- With GE EK-Pro, ApexPro supports advanced atrial fibrillation detection and alarming. Early and accurate identification of AFib may help prevent this arrhythmia from becoming chronic.
- ApexPro has the capability to monitor two V-leads on each patient. Caregivers can be vigilant for both arrhythmias and ST segment changes through a better picture of the patient's heart.
- The flexible design of ApexPro allows each transmitter to monitor only the parameters each patient requires. Continuous monitoring of ECG and SpO₂, and episodic monitoring of NIBP and temperature allow caregivers to tailor monitoring according to the patient's acuity.



Based on results of a scientific study,¹ GE EK-Pro v11 arrhythmia analysis software outperformed that of a leading major competitor on several key metrics:



Intelligence comes in many forms.

With ApexPro, 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 so many convenient ways, caregivers are empowered to respond quickly to critical situations and take appropriate action.



CARESCAPE™ Mobile Viewers™ connect patients and caregivers virtually any time and place by enabling remote viewing of telemetry information on laptops, PDAs, Tablet PCs or cell phones.



CARESCAPE CIC Pro central station enables you to manage patient information gathered from any patient monitor on the CARESCAPE Network.



In Combination Mode, a Dash or Solar® monitor at the bedside can display ApexPro 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 Dash monitor and ApexPro telemetry together create a powerful mobile monitoring solution.

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

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

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Reference:

1. "Ventricular Arrhythmia Detection Performance of Two Commercially Available Patient Monitors Using Previously Unpublished ECG Waveforms." Nicole Haupt, BSEE; Jennifer A. Bowman, MSEE; Jennifer Salvo, BSCE; David A. Sitzman, MSEE; R. Gary Earl, PhD; and George M. Hutchinson, PhD.

Healthcare Re-imagined

GE is dedicated to helping you transform healthcare delivery by driving critical breakthroughs in biology and technology. Our expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, and biopharmaceutical manufacturing technologies is enabling healthcare professionals around the world to discover new ways to predict, diagnose and treat disease earlier. We call this model of care "Early Health." The goal: to help clinicians detect disease earlier, access more information and intervene earlier with more targeted treatments, so they can help their patients live their lives to the fullest. Re-think, Re-discover, Re-invent, Re-imagine.

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GE imagination at work