



**PHILIPS**

Patient Monitoring  
Solutions

Stay connected  
to what's vital



“Gaps in critical patient data are not an option. Our care teams need on-the-spot access to timely and historical clinical information on every patient, every step of the way.”



# Many complex challenges. One comprehensive solution.

What patient care challenges do you face today? Are you looking to remove complexity as a barrier to faster decision making? Simplify life for a clinical staff stretched to the limit? Reduce variability in care delivery? Make patient data secure, yet accessible? Integrate emerging technologies with your IT systems and EMR while lowering your maintenance costs?

Philips Patient Monitoring Solution is more than a network of patient monitors strung together and connected to a central station. It is a comprehensive, patient-focused solution that is designed to fit securely into your hospital's IT environment to help you meet your critical clinical challenges.

It captures a steady stream of virtually gap-free patient data and feeds it directly to your EMR from admission to discharge – even during transport.

It gives on-the-move caregivers visibility to a patient's changing condition, wherever care takes place. And it taps the power of advanced clinical decision support tools and smart alarms to help identify patients in need. So clinicians have the relevant information to make informed clinical decisions and deliver timely care – at every level of acuity.

The entire Philips family of IntelliVue stationary, transport and mobile monitors shares the same look and feel to limit complexity, accelerate care and help you to provide consistent quality care. Plus, we offer the ongoing consulting, training, service and support that is essential to help streamline workflow, assist in driving clinical performance and enhance patient care.

It's one comprehensive solution – yours.

With Philips Patient Monitoring Solution,  
**you can confidently deliver quality care everywhere it matters.**

## Philips Patient Information Center iX

This powerful system is at the heart of our patient monitoring solution. It unites patient monitoring data, powerful clinical decision support tools, early warning scoring and advanced algorithms to help you identify patients at risk for deterioration. It captures and consolidates waveforms, trends, alarms and numerics from IntelliVue patient monitors and other networked clinical information systems to connect people, care settings and

data. It helps enable caregivers to view personalized, up-to-the-minute data for up to 1,600 patients across the enterprise – from virtually anywhere at any time. And it communicates bi-directionally with your EMR and HIS, giving nurses the power to automate administrative tasks and use electronic charting so they can spend more time with patients.





“Every patient expects and deserves the best care possible – no matter where in our hospital the care takes place or which caregiver provides it.”

# Consistent quality care. Across the enterprise.

Philips Patient Monitoring Solution includes the products, services, training and support you need to limit unnecessary clinical variation and deliver the exceptional quality care you rely on to enhance your hospital’s reputation and fuel your success.

**A familiar user experience**

Philips IntelliVue patient monitors serve up detailed, timely patient information in a clear, meaningful, and consistent way. Our stationary, transport and mobile monitors all share the same user interface, configurability and supplies to accelerate care, help reduce the need for training and to make it easy to scale up from vital signs monitors for general care to highly advanced systems in your ICU. Philips Patient Monitoring Solution provides custom, personalized profiles that mean similar protocols can be followed across your entire enterprise.

**Training: to achieve a higher standard of care**

A trained clinical staff that is ready and able to exploit the full potential of your patient monitoring system is essential to delivering a wide range of care – from basic to advanced. Philips offers continuous education and training to help your staff make the most of our advanced monitoring technology – so everyone on your clinical team can uniformly apply best practices – to limit the differences in care delivery between one patient and another when treating a specific medical condition.

Philips goes beyond providing training courses and manuals. Our clinical service and education experts can help you assess gaps in staff skills and knowledge to deliver and deploy an education plan customized for you and your evolving organization.

**Consulting: to drive clinical performance\***

Philips helps you tap the power of your high-resolution physiological data to help shape your practices and enhance clinical performance. Clinical experts from our data-centered consulting services organization help you prepare for and master clinical challenges, while supporting advanced initiatives and research – such as Sentinel event review analysis, interoperability consulting, QT research, alarms and more – to help define protocols, design technology configurations and develop clinical best practices.

Philips clinical performance consultants can help you build tailored configuration templates, standardize workflows and manage change. Our consulting services include clinical observation, data analysis and recommendations for delivering consistent quality care.

**Maintenance: to help keep you up and running**

Focal Point centralizes IT and biomed operational management by providing visibility into inventory, alerts, status and performance of Philips products. By facilitating the rapid application of operating system, device and server software patches, Focal Point also strengthens the security of Philips products. This empowers you to more efficiently maintain and troubleshoot issues, for enhanced solution uptime and IT/biomed productivity.

You can also take advantage of our flexible, customizable RightFit Service Agreements to make the most of your monitoring systems – by delivering the support you need to achieve your clinical, operational and financial goals.

Finally, you benefit from software license updates that help you keep your software fully up to date and secure, while ensuring compatibility with other components of your Philips Patient Monitoring Solution, such as measurement modules and the Philips Patient Information Center iX (PIC iX).



## Bedside monitoring for critical care

**IntelliVue MX750** and **MX850** patient monitors feature an innovative patient monitoring platform that actively participates in charting, making it easy for nurses to accurately and efficiently record patient data at the bedside. Optimized for the ICU, the monitors feature projected capacitive (pCAP) touch displays and a host of features designed to address modern cybersecurity challenges. Alongside these features, the monitors also include a built-in RFID/NFC card reader for clinician authentication.



## Monitoring during transport

There is no need for caregivers to use a separate transport monitor with our compact, portable **IntelliVue X3**. Simply unplug the X3 from the stationary monitor and it instantly transforms into a rugged, fully functional transport monitor. When you return, plug it back in to the bedside monitor and it automatically becomes a powerful multi-measurement module. It can even double as a small patient-side independent display and control panel with a simple, smartphone-style interface.





“With sicker patients and fewer caregivers, our staff is stretched to the limit. We need to make the most of our resources. Which patients are at risk? Who is best qualified to respond? We need answers.”



# Know sooner. Do more.

The sooner caregivers know about changes in a patient’s condition, the earlier they can make informed decisions about the right course of care – and the right caregiver to provide it.

Philips Patient Monitoring Solution includes a wealth of tools and technologies to keep patient data in sight and patients within reach across the hospital. It enables virtually anywhere, anytime visibility to a patient’s vital signs, waveforms and alarms at the bedside – during transport, at the central station or via mobile apps and smart devices. So your care team can share clinical observations and knowledge to support timely diagnosis and early intervention.

### Support informed clinical decisions

Philips Clinical Decision Support Solutions (CDSS) such as Horizon Trends, ProtocolWatch and ST Map, enable caregivers to analyze and identify subtle changes in a patient’s condition prior to critical events. And early warning scoring, event surveillance and advanced algorithms work together to help identify patients at risk of deterioration early, giving caregivers the patient data they need to act with confidence – in time to make a difference.

### Manage alarms to support a healing environment

Caregivers are faced with many challenges throughout their day; alarm sounds are just one example. After engaging hundreds of clinicians, plus sound and music experts, Philips developed and introduced new alarm sounds as an option on our patient bedside monitors to support a more healing environment. These sounds provide an essential first step in managing alarms and noise caregivers face daily.

Additionally, Philips offers a broad array of tools and services designed to help you address other aspects of alarm fatigue - from Alarm Advisor and clinical decision dashboards to enterprise-wide alarm consulting and change management initiatives.

Together with these tools and consulting methods, we can design a plan that works for you and your staff to reduce noise and non-actionable alarms, to help improve clinical workflow and support a healing environment for patients and families.

### Increase caregiver productivity

Philips Patient Monitoring Solution is designed from the ground up to limit administrative time and allow nurses more time for patient care. Displays, configurable screens, easy charting, workflow tools and ergonomic solutions are designed around the way caregivers work. Wave strips can be sent electronically to the EMR via a customized schedule, manually or through automatic export. Visual Patient Avatar provides an adjunct view to support anesthesiologists during demanding procedures giving them the ability to see subtle changes in their patient’s condition at a glance. Time-consuming tasks such as admit, discharge and transfer of patients can be done quickly and efficiently at the central station or from any IntelliVue bedside monitor using a barcode scanner. And patient data can easily be seen throughout the entire care journey.

## At-a-glance information to support situational awareness

**Philips Visual Patient Avatar** is an innovative tool that provides an adjunct clear and straightforward view into your patient physiological data exactly where you need it most. Focused on the operating room environment, Visual Patient Avatar helps you make sense of the wealth of parameters, waves and values offered on the bedside monitor during demanding procedures, providing insight into the subtle changes that often get missed.

Please check with your local Philips team if Philips Visual Patient Avatar is available in your area.

## Mobility solutions for caregivers on the go

**CareEvent** turns a smartphone into a powerful clinical tool for receiving alarms and event notifications from Philips Patient Monitoring Solution, nurse call systems, lab systems and more. It provides clinical context for actionable alarms by delivering up to four numerics, four waveforms and associated data from Philips patient monitors directly to the caregiver’s smartphone. Caregivers have the alarm information they need to make quick patient assessments and choose the best course of care, and can change caregiver assignments, communicate with team members, delegate caregivers and escalate tasks to manage workflow.

**Care Assist** enables clinicians to view live physiological vitals, including waveform data and parameters, as well as retrospectively review alarm and waveform data on supported mobile devices. It works with IntelliVue monitors and central stations, providing remote access to the most up-to-date patient information. Caregivers can follow progress, collaborate with colleagues and make informed decisions – even while they are on-the-go.





“We have an enormous investment in IT, so our monitoring system must work with our existing network, EMR and HIS, protect patient privacy and network security, and scale on demand.”

# Working as one. Working together.

As the healthcare environment has evolved, the role of IT professionals has become increasingly complex. The pressure is on to easily assimilate new technologies into your existing IT infrastructure and EMR. Provide on-the-go caregivers with visibility into a patient’s changing condition and complete medical history. Shield your integrated Philips systems from security breaches, ransomware and other cyberattacks and identity fraud. All to help drive down the cost of care delivery. Philips patient monitoring is up to the challenge. Our tested, standards-based approach to IT design and architecture supports compatibility, interoperability and security compliance.

**Compatibility**

A single integration engine enables you to connect your equipment and systems to your hospital’s clinical network – regardless of technology or vendor – so everyone who needs to can access and share vital patient information. Our IntelliBridge System enables you to attach a wide range of medical devices, input their data into the database and display it in context on the patient monitor. Even complex devices such as infusion pump managers can be connected to a Philips Patient Monitoring Solution using the IntelliBridge platform. Most important, this integrated solution can handle multiple modalities and feed critical patient data directly to your EMR.

**Interoperability**

With Philips Patient Monitoring Solution, you have the freedom to use your own wired and wireless network and active directory infrastructure for user administration and authentication. Plus, you can leverage your own virtualized servers to reduce the total cost of ownership over time. Philips IT and Interoperability consultants can work with you to understand your IT and clinical challenges and help you create a custom solution designed around the needs of your hospital.\*

**Security**

With Philips, you can tap the power of our risk-based, defense-in-depth security approach to protect the privacy of patients and integrity of their data. We share our IT security features and risks with you, so you can plan ways to further defend your clinical and information systems from malware, ransomware and identity theft. Philips PIC iX provides the added protection of certificate-based node authentication, network data encryption and more.

**Support**

Our security experts can help you adopt an effective infrastructure for deploying patient monitoring devices in a safe, secure network. We were instrumental in developing the IEC 80001 risk management framework, and publish risk management guidance to help you implement this innovative standard.

**Availability**

System availability is essential to smooth clinical workflow and to support continuous monitoring. To prevent interruptions, you can virtualize servers on your hardware. Our patient monitoring solution also separates the surveillance application from data acquisition to enhance uptime while maintaining key system capabilities. Distributed HL7 enables HL7 service to run on each PIC iX, and each PIC iX connects directly to configured clients. And if an interruption does occur, Focal Point will immediately notify your IT and biomedics while the system stores data and sends it to the EMR, and automatically reconnects when the server is back online.



## Enterprise connections

Philips provides a path toward enhanced interoperability with the IntelliBridge family of solutions, the gateway for streaming data from more than 200 medical devices into bedside monitors and department systems. Our scalable, modular technology supports multi-vendor data sharing and transfer within and beyond the walls of the enterprise to help reduce the cost and complexity of delivering consistent quality care.



## Transform your data into value

The Philips Clinical Insights Manager makes rich, high-fidelity clinical data clear, manageable and understandable. This comprehensive, service-oriented solution combines the storage and aggregation of data with tools to allow you to query, filter and sort it, in compliance with data security requirements. As a retrospective data analysis solution, Clinical Insights Manager helps you unlock your data and put it to work to achieve your clinical healthcare goals.



## Wireless freedom

Philips IntelliVue Clinical Network uses industry-standard 802.11 protocols. Optimize your own Wi-Fi infrastructure to help manage the cost of patient monitoring. Or take advantage of the Philips Smart-hopping Network, created for the transmission of physiological data and trusted in hospitals around the world. We also offer network assessment consulting to help hospitals identify potential gaps in their current infrastructure and develop a high-performance patient monitoring network.\*



## Support for industry standards

IHE-compliant HL7 output on the PIC iX central station provides a standards-based framework for integrating, sharing and accessing electronic health information across a patient’s entire health journey. Philips IT and Interoperability consultants can work with you to help create a custom solution designed around the needs of your hospital.\*

\* Consulting services vary by location. Please check with your Philips representative for what is available in your local market.

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“Clinical performance always comes first, but money matters. We’re looking for a hospital-wide monitoring solution that serves as a foundation for controlling costs and reducing financial risk.”

# Manage costs. Maintain quality.

Philips works in concert with you right from the start and at every stage of ownership to help you customize and standardize your patient monitoring solution to your hospital, your protocols and your people. We provide the ongoing consulting, training, service and support essential to making the most of your patient monitoring system and IT infrastructure to help drive clinical performance.

**Make the right choice**

The Philips IntelliVue patient monitoring portfolio offers a broad and deep portfolio of bedside, central and transport monitors that stream timely, relevant patient data through your Philips network and IntelliBridge Enterprise to your EMR and patient data management systems. You can choose the right level of monitoring technology and clinical parameters for each care setting and patient condition to stay on budget. When you’re ready to grow, your Philips Patient Monitoring Solution scales from just a few interconnected monitors to accommodate over 1,600 patients connected via a single enterprise-wide system.

**Enhance training efficiency**

Since all Philips monitors share a common look and feel, it’s easy for clinicians to move from low-acuity monitoring to the highest level of acuity with Philips clinical training.

**Keep your systems up to speed**

Our patient monitoring solution is designed for easy integration and high availability, so your most critical patients can be continuously monitored with minimal interruptions to your network or EMR workflow. Philips flexible Software Maintenance Agreements make it easy to access the latest software updates, so everyone on your team is on the same page and working at peak capacity.

**Reduce non-actionable alarms**

The fewer unnecessary alarms, the lower the burden on your nursing staff. Philips alarm management tools keep track of how quickly and efficiently your care team responds to each patient alarm and suggest possible modifications to enhance patient care.

**Understand your patient population**

Philips consulting services\* help you customize data extraction software to provide a holistic view of your patient populations at a glance – to help you quickly prioritize those with complex needs and allocate resources and dollars where they will do the most good.

**Centralize maintenance support for IT and biomed teams**

As hospitals grow and your networks become increasingly complex, managing devices, delivering security and controlling costs places a greater strain on resources. Focal Point provides visibility into your Philips product inventory, security, status and solution performance. It provides your IT and biomed teams with operational management alerts and key performance indicators, and helps manage the complexity of applying security and operating system patches to your products and devices. Focal Point reporting and analytics capabilities will give you a clear picture of your system health, while aiding you in troubleshooting, diagnosing and resolving issues faster.



## Simplify alarm management

Philips PIC iX incorporates an alarm audit log designed to help you optimize alarm limits and reduce clinically non-actionable alarms. An Alarm Summary report helps clinicians decide if an alarm limit change would result in a reduction of non-actionable alarms. Plus, it supports hospital research on alarming and sentinel events.



## Transform alarm data

Our consultants can help you turn an overwhelming amount of raw alarm data into meaningful visual analytics you can use to understand alarm behavior and help support quality and performance initiatives.

**Grow your solution your way**

Philips central station and monitoring architectures allow for upgrades with limited downtime to improve utilization. Software licensing can be moved to systems across the enterprise to make the most of resources. Users, upgrades and features can be added via a software upgrade. Philips offers flexible deployment to help you build your solution on your terms and better manage your IT budget.

**Collaboration for life**

With Philips, you can count on expert consulting, training, service and support to help you address your evolving challenges in an efficient and cost-effective way – and deliver consistent quality patient care in a secure, integrated environment. It’s one more reason why hospital systems around the world trust a Philips Patient Monitoring Solution to watch over more than 275 million patients a year.\*



\* Consulting services vary by location. Please check with your Philips representative for what is available in your local market.

\* Extrapolated values based on Philips IntelliVue sales figures.



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