IntelliVue Telemetry System

Surveillance and Networking

PHILIPS
In a clinical network, real strength

Today, more monitored patients are mobile. Broad wireless coverage means more freedom for patients and more flexibility for clinicians.
As wireless medical devices proliferate, our robust clinical network will evolve with you to support your wired and wireless patient data flows.

For clinical users, the network should essentially be invisible. The information you rely on should be available when and where it’s needed, whether the source is a wireless monitor, a networked bedside monitor, or a laboratory information system.

To maximize return from your investment in a clinical network infrastructure over time, our latest wireless technologies coexist with our legacy systems.

**Wireless bedside monitoring on the same infrastructure**

Our Common Wireless Infrastructure also supports wireless bedside monitoring. This gives hospitals the benefit of a shared infrastructure that still isolates sensitive patient monitoring transmissions from enterprise network traffic.

**System design and installation**

Philips technical consultants work closely with your clinical staff along with IT, biomedical, and facilities departments to design and implement a system that will work for you now, and for years to come.

**Training and support**

We offer training in many forms, from on-site classes led by clinical experts to carefully constructed computer-based training. Our customers can also rely on our service organization for exceptionally prompt, responsive support.

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**IntelliVue Telemetry System**

Industry-leading innovation with a Smart-hopping™ cellular system (operating at 1.4 GHz)

The IntelliVue Telemetry System uses a cellular architecture with Smart-hopping technology to provide reliable two-way communications between transceivers and the IntelliVue Information Center. Smart-hopping technology dodges interference and seeks out the strongest available signal to achieve seamless connections wherever patients roam on the network. Access points give facilities considerable flexibility in setting up their systems.
The IntelliVue Telemedicine System uses advanced Smart-hopping technology, an adaptation of a protocol originally developed for voice communications, to maintain seamless connections between the central station and telemetry devices. With Smart-hopping, the transceiver will change frequencies only to dodge interference or when it finds a stronger signal. Smart-hopping technology also manages bandwidth usage so efficiently that many more simultaneous users can share a channel, in comparison with simple frequency-hopping. And that means the IntelliVue Telemedicine System is highly scalable, with capacity to support up to 1,000 transceivers or wireless bedside monitors.

**IntelliVue Telemedicine System overview**
- Compact, lightweight transceivers
- Cellular infrastructure for two-way communication between transceivers and the IntelliVue Information Center
- Smart-hopping technology
- Auto-resume of monitoring when a device comes back into network range
- 2V-leads with 6-wire ECG for improved tachycardia assessment
- Audible feedback from transceiver on SpO2 spot checks, patient out of range
- Coexists with UHF Philips Telemedicine System in the same space

Leadset cables are 79cm (30”) to accommodate patient movements. Colored leadsets are available.

- AA batteries are significantly less expensive than 9V batteries and easier to change.

* EASI derived 12-lead ECGs and their measurements are approximations to conventional 12-lead ECGs and should not be used for diagnostic interpretations.
** Device location not available for sale.
Telemetry overview links a patient’s transceiver and an IntelliVue monitor so that the patient’s telemetry measurements (waves, numerics, and alarms) appear on the bedside monitor and the central station in context with other physiological data.

Markings on the leadsets and ports make it easy to set up EASI* or standard ECG monitoring on the same device.

IntelliVue Device Location** shows which access point a transceiver is associated with so that you can find missing devices more easily. The map application runs on a standard PC, and access point names appear in the associated bed sectors on the IntelliVue Information Center.

The IntelliVue Telemetry System is an integral part of the IntelliVue Clinical Network. Access points give the system flexibility and range and can help isolate the impact of broadband interference. Smart-hopping allows many more simultaneous users per channel than simple frequency-hopping.
The portable TeleMon companion monitor provides local alarms and displays ECG, SpO₂ (optional), and non-invasive blood pressure measurements at the patient’s side simply by attaching a cable from the patient’s transceiver.

The IntelliVue Clinical Network is designed specifically to manage flows of time-critical, round-the-clock patient monitoring data. Isolation (physical and/or logical) protects the network from many of the day-to-day hazards of business networks, including viruses and transmission delays.

At the same time, the IntelliVue Clinical Network can maintain a controlled connection with the hospital LAN so that useful patient information – such as lab results or PACS images – can be delivered to the bedside monitor or central station without the risk of disrupting the flow of physiologic data or alarms.
The IntelliVue Information Center is the heart of the IntelliVue Clinical Network

Combining advanced patient surveillance capabilities across the network with state-of-the-art clinical decision support tools, the IntelliVue Information Center is so much more than a central station.

The IntelliVue Information Center presents a comprehensive view of patient status past and present, with up to 96 hours of full disclosure. Export 12-lead ECGs to your Holter system or waveform strips to the CareVue Chart clinical information system.

Our suite of clinical review applications includes arrhythmia analysis, alarm review, and event-based surveillance. Web-based access enables everything from better informed consults to the remote ICU care model.

Flexible wireless monitoring applications

Hospitals have discovered that telemetry systems have broad applications, from the emergency department where incoming patients with suspected cardiac abnormalities can be monitored without necessarily tying up a monitored bed, to neuroscience units where ECG telemetry can be useful in caring for stroke patients.

- **Emergency department**
  Mobile monitoring for patients with suspected cardiac problems
- **ICU stepdown**
  Less intensive monitoring for recovering patients
- **Cardiac unit**
  Continuous surveillance for ambulatory cardiac patients
- **Neuroscience unit**
  Critical surveillance for arrhythmias in the aftermath of a stroke
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Would you like to know more about our imaginative products? Please do not hesitate to contact us. We would be glad to hear from you.

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