

BeneVision™

See more With ease

**Central Monitoring System**

Visible anywhere

Flexible system

Easier to use



[www.mindray.com](http://www.mindray.com)

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healthcare within reach

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**BeneVision™  
Central Monitoring System**

A better vision of care







# BeneVision™ Central Monitoring System.

A versatile partner that really enhances your clinical work

The everyday routines of modern hospitals call for ever higher efficiency and place more demanding requirements on clinical diagnosis. BeneVision™ Central Monitoring System(CMS) is the ideal tool to meet these requirements and redefine versatile clinical surveillance.

## Make your team more efficient.

BeneVision™ Central Monitoring System evolves from a centralised monitoring station to a distributed and patient-oriented system. It provides five correlative system components - CentralStation, WorkStation, ViewStation, CMS Viewer, and Mobile Viewer. You can combine these components in a flexible way to build various monitoring systems that satisfy different departments' needs and the whole hospital's monitoring requirements.

## Make your workflows smoother.

BeneVision™ Central Monitoring System not only allows you to oversee patient monitor devices but also devices connected to patient monitors via the BeneLink technology. With diverse system component options, you can get comprehensive patient information anytime and anywhere, at a nurse station, in corridors, offices, and so on. In addition, based on the capacitive touch screen technology, the intuitive and friendly user interfaces of the BeneVision™ Central Monitoring System enable you to operate the system quickly and reduce your training costs.

## Make your clinical decisions easier.

BeneVision™ Central Monitoring System provides various review applications to fast-track patient conditions, and contrast windows enabling you to simultaneously view patient data in different ways. In addition, sophisticated analysis tools help you make clinical decisions faster and easier.



Nurse:  
*"It is more intuitive and helps me to save more time for my patients."*



Doctor:  
*"I can access my patient's data immediately no matter where I am. With clinical assistant applications, I can make a quick and accurate diagnosis."*



IT technicians:  
*"The BeneVision CMS fits seamlessly with our existing IT infrastructure, satisfies all of our safety and security strategies, and is easy to maintain."*



Supervisor:  
*"It offers a better solution to improve our care quality within a reasonable investment."*



# BeneVision™ Central Monitoring System: Patient control at any point of care



## Observe patients in different departments

The WorkStation (WS) can be connected to CentralStations from different departments simultaneously, enabling clinical supervisors to conveniently observe and review multiple patients at one glance.

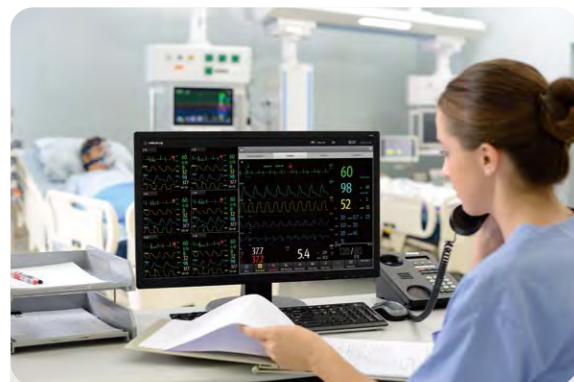


**Analyse patient conditions in the office**  
The CMS Viewer allows access to patient monitoring information and bedside peripheral devices on the PC in your office. Comprehensive review and clinical assistive applications make diagnosis more convenient.



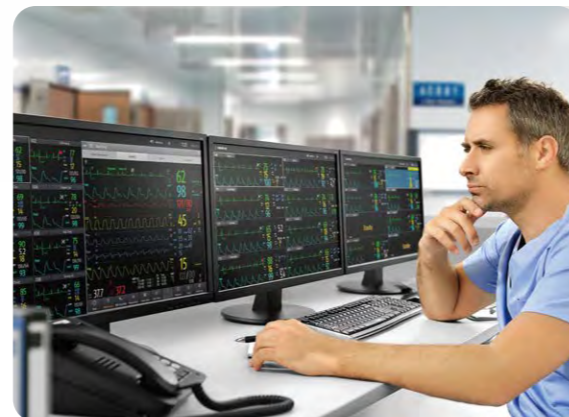
## Get detailed patient information anywhere

The ViewStation (VS) can be located anywhere it is needed, such as the lounge or corridor. Unlike the usual CentralStation mirroring solution, the ViewStation can display patient information from one or multiple CentralStations. In addition, it allows you to view detailed information from any single patient and supports touch screen operation.



## Monitor patients in a care group

The WorkStation (WS) can help you concentrate more on the patients in your care group. As well as monitoring real-time information, you can also adjust settings and admit patients to the WorkStation. The patient information will be synchronised with that in the bedside monitor and in the host CentralStation.



## Access all bedside device data at the nurse station

The CentralStation (CS) not only displays information from patient monitors but also from peripheral devices such as ventilators connected to patient monitors via the BeneLink module. All of this device data is patient-centered and well-organized for easy browsing and review. This data is also transferred to other BeneVision™ CMS components such as WS and VS.



## View patients by smart phone/pad

For even greater flexibility, the Mobile Viewer is a BeneVision™ Centralstation in your pocket. You can get patient data for clinical decision making via a smart phone or pad no matter where you are.



# For nurses: Improve care with your own simplified workflows

## Panoramic patient monitoring

Up to 64 beds can be connected to BeneVision™ CentralStation simultaneously. All the measurements from the patient monitors, plus integrated data collected from peripheral devices together with continual EWS score are displayed on multiple, full HD wide screens.

## Prompt alarm

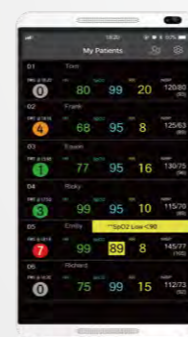
No matter where you are, the BeneVision™ Central Monitoring System can inform you of patient's conditions based on your preset alarm strategy for both patient monitors and other peripheral devices. If a patient wears a telemetry device, the "locate device" & "electronic fence" functions can help to limit patient moving range and identify the patient's whereabouts quickly.

## Intelligent workflows

Your workflow becomes simpler and more dynamic with BeneVision™ Central Monitoring System. After establishing connection with your ADT system, BeneVision™ CentralStation/WorkStation can find the desired patient by the bed number automatically, enabling quick patient admission. During patient transfer, patient data is automatically transferred and merged. Electronic reports are regularly sent to the EMR. When an important event occurs, a notification can be sent to the nurse's PDA via Mobile Viewer. The Care Group function can help the nurse focus on patients whom she is caring for, thus simplifying workflows and reducing information overload.

## Intuitive user interface

The BeneVision™ Central Monitoring System with capacitive touch screens makes operations more intuitive and adopts the same interface design style of the latest BeneVision™N series patient monitors, helping to reduce your learning time.



### Mobile Viewer

The Mobile Viewer allows you to see your patients' condition anywhere and at any time. And event notification can immediately notify you when your patient is at risk



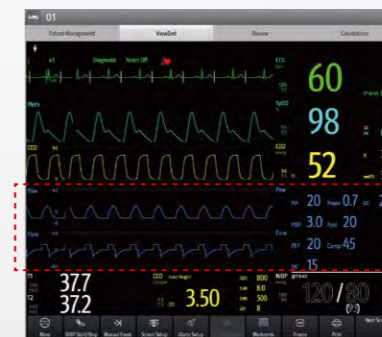
### Alarm Setup

Clear and intuitive interface make it easy to understand and setup



### Capacitive Touch Screen

Capacitive Touch Screen supports both drag and swipe operation, making patient data review quicker and easier



### Integrated devices

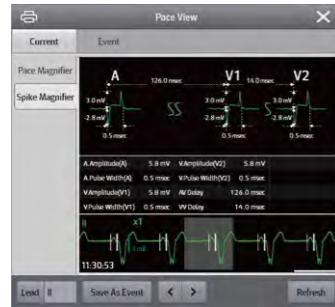
Patient monitoring data and data from peripheral devices (such as ventilators) connected with the patient monitor are displayed in the same patient sector and ViewBed window



# For clinicians: Confidence with comprehensive information at any time



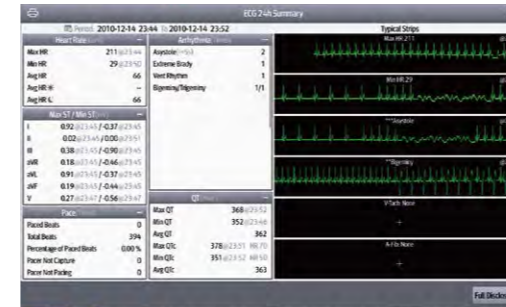
**ST graphics™**  
Fast and accurate detection of changes in ST values for analysis.



**PACE View**  
Help to check the pacemaker status and adjust pacer parameters



**ABPM Analysis**  
Comprehensive analysis of blood pressure changes over time



**24-hour ECG Summary**  
Understand patient cardiac condition at a glance

## Professional clinical application

BeneVision™ Central Monitoring System provides reliable clinical assistive applications to help physicians make quick and accurate clinical decisions. 24-hour ECG summary shows patient cardiac condition as statistics tables and graphs and provides tools for thorough analysis. ST graphic shows real-time ST value variation from the baseline, and the classification in inferior, anterior and lateral direction to help assess the patients cardiac condition quickly. Moreover, with the latest Mindray ambulatory blood pressure monitoring technology, ABPM analysis reports can be reviewed and printed.

## Comprehensive data review

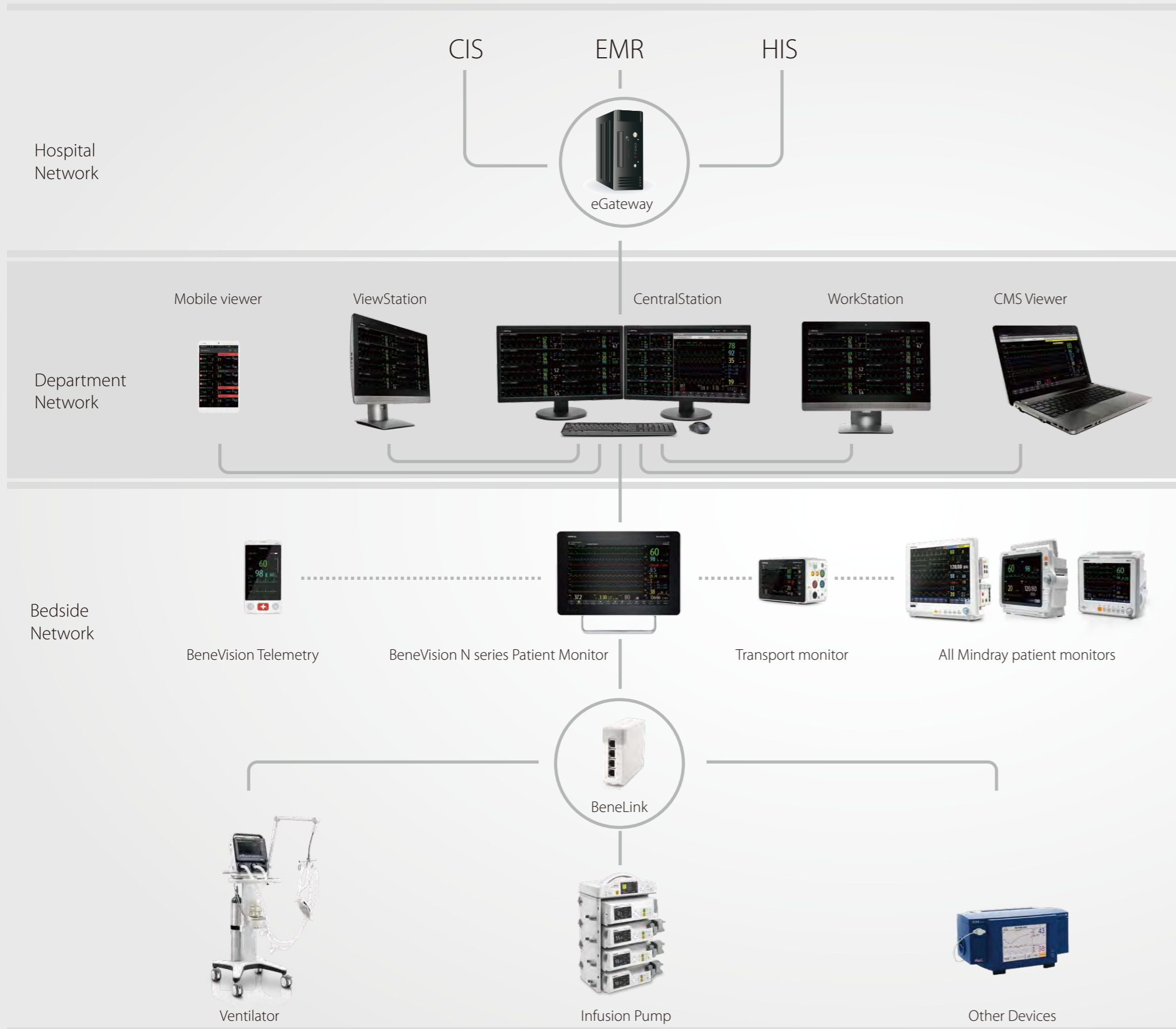
You can assess your patient more comprehensively via BeneVision™ Central Monitoring System. Up to 10-day full disclosure, with both patient monitoring and peripheral device data, can cover the whole course of treatment from admission to discharge. Seven review functions present the patient's conditions from different perspectives to extend the basis for your analysis.

## Flexible working platform

The variety of BeneVision™ Central Monitoring System options delivers a truly flexible working platform. CMS Viewer, an application that can be installed on your PC, allows you to analyse your patient's condition in the office, away from the clinical area, making your work more comfortable and efficient. Mobile Viewer, an Android-based application, can be installed on a smart phone or pad, helping you to easily assess your patient's condition wherever you are and whenever you need to.







For IT technicians: Access to hospital networks with enhanced solutions following your IT strategy

### Adaptable infrastructure

BeneVision™ Central Monitoring System supports a large network deployment of up to 1200 beds for mixed wired, wireless and WMTS telemetry connections. The underlying infrastructure of BeneVision™ Central Monitoring System is full 3-layer compatible, supports both unicast and multicast communication and so fits perfectly into your existing network without any extra investment. The IHE HL7 protocol output through eGateway makes it very easy to connect BeneVision™ Central Monitoring System with other hospital systems such as EMR and CIS.

### Reliable safety & security design

Data safety and security is a big concern for IT technicians. So, BeneVision™ Central Monitoring System supports SSL communication encryption, LDAP authorisation and incorporates McAfee white list to block external intrusion. The system adopts RAID1 technology for error and disaster tolerance, QoS support to ensure real-time data transfer quality when the network is congested and overall backfilling strategy to guarantee no loss of patient data.

### Easy to maintain

BeneVision™ Central Monitoring System can be fully virtualised on your own server hardware via a VMware environment, which is easier for IT clustering maintenance and cost control. In addition, BeneVision™ Central Monitoring System integrates a powerful maintenance function which can centrally acquire maintenance information, logs of networked patient monitoring devices, and centralised configure and upgrade firmware of these devices. With authorisation, Mindray can offer remote services, which makes maintenance easier and more efficient.

For supervisors: Upgradeable monitoring solution with cost-effective investment

### Protected investment

BeneVision™ Central Monitoring System supports the whole family of Mindray patient monitoring products, protecting your investment. In addition, it is fully compatible with your existing hospital network, avoiding extra network construction costs. Through the eGateway that supports the IHE HL7 protocol, the BeneVision™ Central Monitoring System can easily connect to your existing hospital information system. The intuitive user interface is consistent with the latest BeneVision™ N series patient monitors, helping to reduce learning time and training costs.

### Enhanced monitoring solution

A wide variety of BeneVision™ Central Monitoring System options deliver extremely flexible monitoring solutions to meet the various requirements of different departments or even the whole hospital, enhancing your working efficiency. In addition, the BeneVision™ Central Monitoring System not only displays information from patient monitors but also from peripheral devices such as ventilators connected to patient monitors via the BeneLink module, improving patient safety. Also the alarm statistics tool can help to find out meaningless alarms, assist to change alarm settings and reduce alarm fatigue.

