

## mindray

BeneVision™ Central Monitoring System

A better vision of care



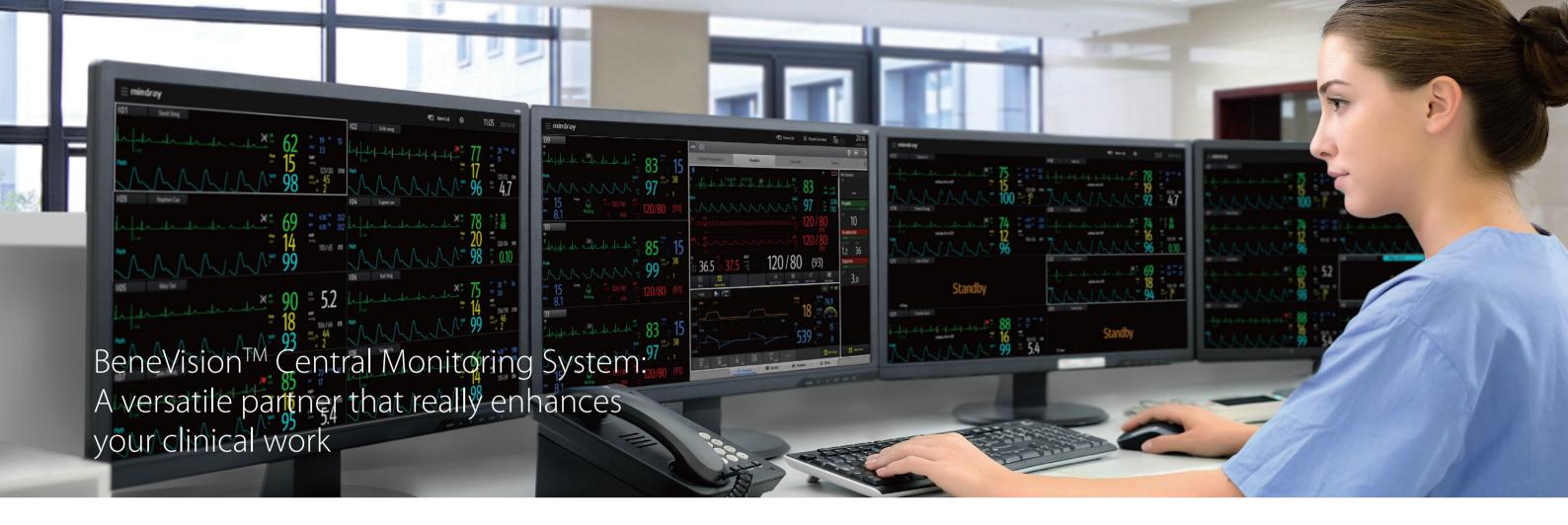


www.mindray.com

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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 several correlative system components - CentralStation, WorkStation, ViewStation, CMS Viewer, Mobile Viewer, AlarmGUARD and web client. 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 but also infusion pump, ventilator, and devices connected via the BeneLink. With diverse system component options, you can get comprehensive patient information at a nurse station, corridors, offices and so on. In addition, based on the capacitive touch screen, the intuitive and friendly user interface of the Central Monitoring 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 help 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 tochnicians

"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 patient detailed 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 Lite can be installed on the same host with the information system, which helps you concentrate more on your work and patients care. As well as real-time monitoring information, you can also adjust settings and admit patients. All patient data will be synchronized with that in the bedside monitor and in the CentralStation.



The CentralStation (CS) not only displays information from patient monitors but also from infusion pumps, ventilators and 3rd party devices via the BeneLink module. All data is patient-centered and well-organised for easy browsing and review. These 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 CentralStation in your pocket. You can get patient data for clinical decision making no matter where you are. Alarm distribution management through AlarmGUARD to ensure patient safety.

## For nurses: Improve care with your own simplified workflows

## Panoramic patient monitoring

Up to 64 beds can be connected to BeneVision Central Station simultaneously. All the measurements from the patient monitors, infusion pumps, ventilators and ultrasound, plus integrated data collected from peripheral devices are displayed on multiple, full HD wide screens.

## Prompt alarm

No matter where you are, BeneVision Central Monitoring System can inform you of patient's conditions according to the flexibly deployed WorkStation and ViewStation. The AlarmGUARD dedicated alarm distribution system can help you keep abreast the patient's risk at all times.

## 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 automatically admit patient synchronously with the information system without any operation. During patient transfer, patient data is automatically transferred and merged. Electronic reports are regularly sent to EMR. 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, ventilators and infusion pumps helping to reduce your learning time.

## Patient centered multi equipment Central Monitoring System

The BeneVision Central Monitoring System integrates all bedside device information such as patient monitors, infusion pumps, ventilators, ultrasound and video, patient status information is readily available, which can better meet the needs of titration therapy.

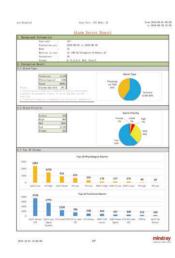






#### **Medication Management**

Overview of all infusion pumps with remaining infusion time summary, gives clear visibility to the caregiver, facilitation timely actions.



#### **Alarm Statistics**

Count the alarm load and response, analyse the alarm types that can be reduced and improve the alarm fatigue through closed-loop management.



#### **Alarm Distribution**

AlarmGUARD supports customization to receive important alarms and view real-time and historical data. If there is no timely response, it will automatically notify the superior to ensure patient safety.



# For clinicians: Confidence with comprehensive information at any time

## Merged multi-device evaluation

#### **Ultrasound-Vital Signs evaluation**

- Vital signs and waveforms are simultaneously transmitted to ultrasound and displayed on the same screen to assist ultrasound diagnosis
- The Central Monitoring System supports the storage and review of ultrasound images, videos and reports.

  Ultrasound examination and vital sign can be reviewed at the same timeline, which is convenient to trace the patient's condition and confirm the treatment effect.

#### Spontaneous breath test

- The ventilator Weaning Tool can start the spontaneous breathing experiment (SBT), and evaluate the patient's status in combination with EtCO<sub>2</sub>, SpO<sub>2</sub>, PR and other parameters, and prompt the weaning after the successful completion of SBT
- Automatically withdraw from SBT in abnormal situations to ensure patient safety and reduce the burden of medical care





## Intelligent clinical assistive applications

The BeneVision Central Station supports complete clinical functions and tools which include BoA, Hemosight, SepsisSight, GCS, EWS, PACE View, 12 lead ECG reanalysis and comparision to assist clinicians understand the situation of responsible patients, intervene or modify the treatment plan in advance.



#### **Continuous EWS scoring**

Remote centralized EWS management, continuous attention to patient status.

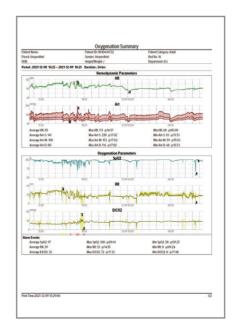


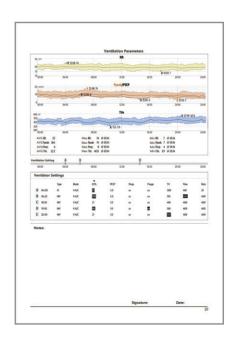
12 lead ECG reanalysis and report comparison

Analysis of patient's typical waveform and disease evolution.

The BeneVision Central Monitoring System intelligently counts patients' physiological parameters and abnormal changes, outputs various patient status summary reports, helps clinical medical personnel quickly obtain patient status, improves diagnosis and treatment efficiency.

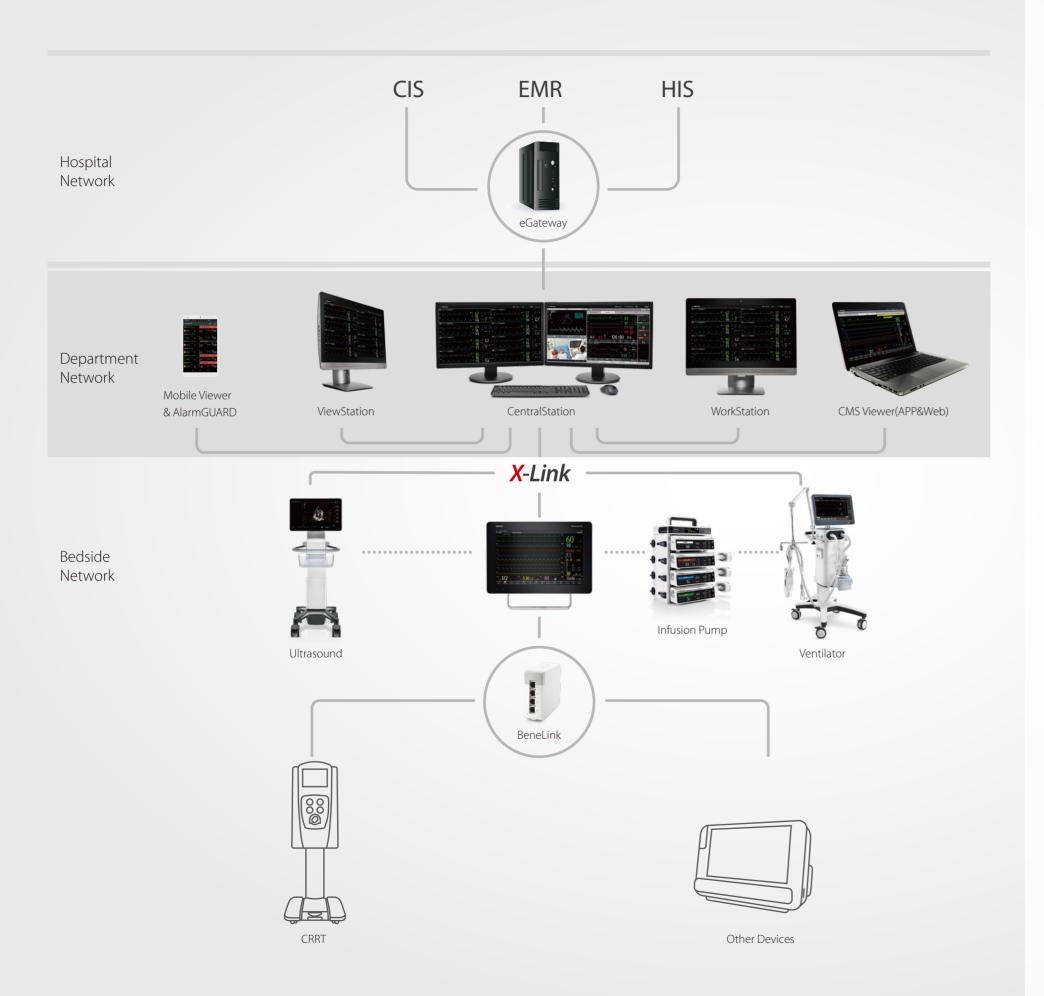
- Comparison and review of long-term trends to understand the evolution of the disease.
- Graphical indication of clinical thinking, intuitively summarizing patient status.
- Supports vital signs, 24h ECG, ventricular arrhythmia, atrial fibrillation, oxygenation and HRV summary.





#### **Oxygenation Summary**

Combine the patient's hemodynamics, oxygenation status, ventilation parameters and ventilator ventilation settings to quickly grasp the patient's oxygenation.



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

## Adaptable infrastructure

BeneVision Central Monitoring System supports large network deployment 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 authorization 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 powerful maintenance function which can centrally acquire maintenance information, logs of networked patient monitoring devices, and centralized configure and upgrade firmware of these devices. With authorization, Mindray can offer remote services, which makes maintenance easier and more efficient.

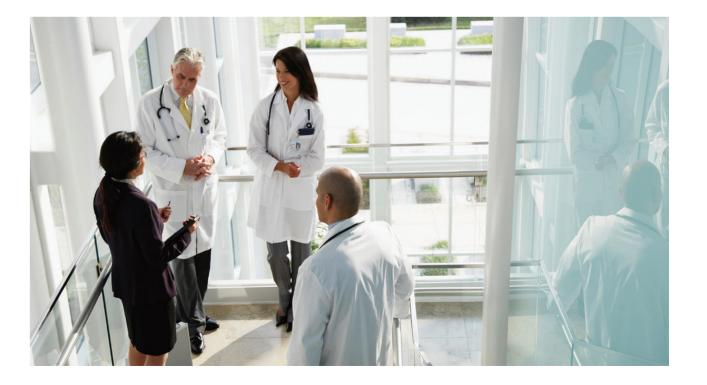
# For supervisors: Upgradeable monitoring solution with cost-effective investment

#### 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 BeneVison Central Monitoring System options delivers 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. And alarm statistics tool can help to find out meaningless alarms, assist to change alarm setting and reduce alarm fatigue.



| Functions                              | CentralStaiton | CentralStaiton<br>Server Edition* | WorkStation | ViewStation | CMS Viewer  | Mobile Viewer |
|--|----------------|-----------------------------------|-------------|-------------|-------------|---------------|
| Manage networked devices               | Yes            | Yes                               | No          | No          | No          | No            |
| Store monitoring data locally          | Yes            | Yes                               | No          | No          | No          | No            |
| Admit/Discharge /Transfer patients     | Yes            | No                                | Yes         | No          | No          | No            |
| Manage alarm                           | Yes            | No                                | Yes         | No          | No          | No            |
| Change monitoring devices' settings    | Yes            | No                                | Yes         | No          | No          | No            |
| Give visual and audio alarm indicators | Yes            | No                                | Yes         | Yes         | Only visual | Only visual   |
| Perform real-time monitoring           | Yes            | No                                | Yes         | Yes         | Yes         | Yes           |
| Change display settings                | Yes            | No                                | Yes         | Yes         | Yes         | Yes           |
| Review online patients                 | Yes            | No                                | Yes         | Yes         | Yes         | Only events   |
| Review discharged patient              | Yes            | No                                | Yes         | Yes         | Yes         | No            |
| Print reports                          | Yes            | No                                | Yes         | Yes         | Yes         | No            |



## BeneVision™ Central Monitoring System







| System Compone                                       | ents  | ARR detection               | Asystole, VFib/VTac, Vtac, Vent. Brady, Extreme Tachy, Extreme  | Clinical Assistant Ap  | plication   | iOS System                            | iOS 9.2 or above   |
|--|---|-----------------------------|---|--|---|---------------------------------------|--|
| Software   |   |                             | Brady, PVCs/min, Pauses/min, R on T, Run PVCs, Couplet,   | ST Graphic   | ST histogram and ST vectogram   |                                       | iPhone 6/plus or above   |
| CentralStation                                       | System center which connects bedside devices  |                             | Multif. PVC, PVC, Bigeminy, Trigeminy, Tachy, Brady, Pacer  | ABPM   | Analysis and report printouts supported   |                                       | iPad mini 2 or above   |
|  | and other remote access devices   |                             | Not Pacing, Pacer Not Capture, Missed Beat, Nonsus. Vtac,   | 24 hours ECG   | Summary Statistics and report printouts supported   | Resolution                            | Self-adaptation  |
| WorkStation  | Remote station with interactive capability  |                             | Vent. Rhythm, Pause, Irr. Rhythm and Afib   | PACE View  | Pace Magnifier and Spike Magnifier  |                                       | optimum 1920x1080  |
| iewStation   | Remote station with the view-only capability  | ST analysis                 | Supported   | EWS  | Continual EWS score and dashboard   | Number of patients                    | ·  |
| :MS Viewer   | Windows based remote access software running on PC  | QT analysis                 | Supported   | LVVS   | Continual EWS score and dashboard   | ViewBed                               | View up to 32 patients simultaneously  View parameters and waveforms monitored   |
|  |   | Q1 arialysis                | Supported   | Data Intenfere   |   |                                       | •  |
| Mobile Viewer  | Remote access software running on mobile device   |                             |   | Data Interface   |   | Review                                | InfusionView, Event, Graphic Trends, 12-lead ECG   |
| Nobile Server  | Service running on standalone server or integrated with   | Alarm                       |   |  | e Integrated eGateway or standalone eGateway  | Events                                | Alarm events, arrhythmia events, manual events,  |
|  | Central Station for Mobile Viewer & Alarm GUARD remote access   | - /                         | Physiological alarm, technical alarm, and system prompt   | ADT  | Support getting patient demographics from ADT system  |                                       | operation-related events   |
|  |   | Priority                    | High, mediate, low and message  |  | Support receiving admit/discharge/transfer patient  | Event Notification                    | Support vibration and sound  |
| ardware  |   | Notification                | Audible and visual  |  | command from ADT system   |                                       | Support configuring trigger condition  |
| lain unit  | Traditional PC  | Remote control              | Alarm switch, alarm limits, alarm priority, alarm pause, and  | CIS/EMR  | Support physiological parameters output   |                                       | Require Android 5.0 or above   |
|  | 1U Blade Server   |                             | alarm reset   |  | Support PDF/XML- format reports output  |                                       | Not supported by iOS   |
|  | Mini PC   | Alarm analysis              | Support alarm statistics  |  | Support infusion information output   |                                       |  |
| isplay   | 24-inch TFT LCD screen  |                             |   | CPOE   | Support transferring doctor's prescription to connected   | Mobile Server Sp                      | ecifications   |
| ,  | 23-inch PCT touch screen  | Summary                     |   |  | infusion pumps  | Standalone Mobile                     |  |
| inter  | Network laser printer   | •                           | Summary, Oxygenation Summary, ECG Summary, Ventricular  | ECG System   | Support full disclosure output  | Operating System                      | Windows 10 or Windows Server 2016/2019   |
| PS   | 1000 VA, 220V / 50Hz  | Arrhythmia Summa            |   | Ecd System   | Support XML-format 12 leads-report output, sample rate of   | CPU CPU                               | 4 cores and 2.9 GHz or above   |
|  | ·   | Allinytiiliia Sulliilia     | ary, Ar Surrinary   |  | 1000Hz for BeneVision N & ePM series patient monitor and  | RAM                                   |  |
| corder   | 3-channel thermal recorder  |                             |   |  | ·   |                                       | 8 GB or above  |
|  |   | Review                      |   |  | of 500Hz for other patient monitors   | Hard drives                           | 128 GB or above  |
|  |   | Trend review                | Most recent 240 hours of tabular trends and graphic   | Alarm system   | Support alarm events output   | Number of beds                        | Up to 1200 beds can be connected simultaneous  |
| lain System Soft                                     | tware Specifications  |                             | trends for all parameters   | Time   | Support synchronizing with NTP server   | Number of Mobile \                    | /iewer Up to 500 Mobile Viewers can be connected   |
| asic   |   | Full disclosure             | Most recent 240 hours of full-disclosure waveforms and  |  | Support synchronizing with eGateway   |                                       | simultaneously   |
| omponents  | CentralStation(CS), WorkStation(WS), ViewStation(VS)  |                             | compressed waveforms  |  | Support synchronization of time to patient monitors and   |                                       |  |
| umber of devices                                     | Up to 64 patient monitors and infusion pumps per station  | Events                      | Most recent 3000 events, including the parameter name   |  | infusion pumps  | Integrated Mobile                     | Server   |
|  | Up to 128 patient monitors and infusion pumps for   |                             | and 16-second waveforms before and after an alarm is  |  |   | Number of beds                        | Up to 128 beds can be connected simultaneously   |
|  | CentralStation Server Edition*  |                             | triggered   | Minimum Runtime  | Environment   | Number of Mobile \                    | /iewer Up to 200 Mobile Viewers can be connected   |
| evices supported                                     | BeneVision N series, BeneView T series, iPM series, iMEC series,  | NIBP review                 | Most recent 3000 NIBP measurements  | CPU  | 4 cores and 3.0 GHz or above  |                                       | simultaneously   |
| evices supported                                     | uMEC series, PM series, MEC series, ePM Series patient  | C.O. review                 | Most recent 720 C.O. measurements   | RAM  | 16GB or above for 64 beds   |                                       | Simultaneously   |
|  | monitors, VS series vital signs monitors, TMS-6016, BeneVision  | OxyCRG review               | Most recent 48 hours OxyCRG   | 10 001   | 16GB for 128 beds (Server Edition)  | Network Specific                      | -ti  |
|  | 9   | ,                           | · · · · · · · · · · · · · · · · · · ·   | Hand debica  |   | -                                     | ations   |
|  | TM80/TD40 telemetry, BeneHeart series defibrillator, Infusion   | 12-lead review              | Most recent 720 12-lead analysis results, with 12 analysis  | Hard drives  | CS: 500G or above   | Infrastructure                        |  |
|  | pump: BeneFusion nSP/nVP/nDS/eSP/eVP/eDS, SV series & NB  |                             | waveforms for each analysis result  |  | WS/VS: 100G or above  | Topology                              | 3-layer network supported, applicable for both ho  |
|  | series ventilators, TEX series ultrasound   | ST review                   | Most recent 240 hours of ST segments  | Networking   | Ethernet 802.3  |                                       | networks and dedicated networks  |
| ntegrated devices                                    | Mindray & 3rd party devices (such as Ventilators, anesthesia  | Historic review             | At least 200 discharged patients' data depending on the   |  | 100M or above self-adapted  | Scale                                 | Up to 1200 bedside monitoring devices for the w  |
|  | machines) connected to patient monitors via the BeneLink  |                             | storage volume  | Graphic card   | Support dual or multiple displays   |                                       | network  |
|  | module  | Minitrends                  | Most recent 8 hours for all parameters  | Speaker  | Built in the host computer or display   | Type                                  | Wired, wireless, and dedicated WMTS network  |
|  |   |                             |   |  | 45 to 85dB alarm tones  | IP config                             | DHCP and DNS supported   |
| Display  |   | Reports                     |   | USB port   | two or more   | Communication qu                      | ality QoS supported  |
| esolution  | 3840x2160, 1920x1080, 1280x1024   | Style                       | Paper and paperless (PDF file) report   | Operating System   | Windows 7/10 or Window Server   | Security                              | LDAP authentication supported  |
|  | plays up to 4 displays, 1 display for 3840x2160   | Size                        | A4 or letter  | 1,111 31,111   | 2008/2012/2016/2019   |                                       | SSL encryption supported   |
| isplay config  | Up to 64 patients on one display with 3840x2160 resolution  | Color                       | Monochrome, Color   |  | 2000, 2012, 2010, 2017  |                                       | McAfee antivirus application (Solidcore Solidifier)  |
| isplay coming  | Up to 36 patients on one display with 36 lox2100 resolution   | Type                        | Titration table report, hemodynamic calculation report,   | CMS Viewer's Spec  | rifications   | Safety                                | Raid 1 supported   |
|  |   | туре                        |   |  |   | Salety                                |  |
|  | Up to 16 patients on one display with 1280x1024 resolution  |                             | oxygenation calculation report, ventilation calculation   | Operating System   | Windows 7/10 or Window Server   |                                       | Backfilling data supported   |
| ace  | Up to 8 waveforms per patient in the sectors  |                             | report, renal calculation report, graphic trends report,  |  | 2008/2012/2016  |                                       | Redundancy supported   |
|  |   |                             | tabular trends report, full disclosure overview report, full  | Resolution   | Self-adaptation   | Virtualization                        | VMware supported   |
|  | Up to 12 waveforms for specific patient in the ViewBed  |                             |   |  |   |                                       |  |
|  | Up to 12 waveforms for specific patient in the ViewBed window   |                             | disclosure detail report, waveform segment report, event  |  | Optimum 1920x1080   |                                       |  |
|  |   |                             |   | Number of patients   | ·   | Environmental S <sub>1</sub>          | pecifications  |
|  | window  |                             | disclosure detail report, waveform segment report, event  |  | •   | <b>Environmental S</b><br>Temperature | pecifications Operating: 10 to 35°C (50 to 95°F)   |
|  | window<br>Up to 16 infusion details for one docking station   |                             | disclosure detail report, waveform segment report, event report, event list report, 12-lead interpretation report, multi-lead ECG report, ST report, QT report, Arrh statistics   | Number of patients   | View one patient at one time  |                                       |  |
| atient sector lavou                                  | window Up to 16 infusion details for one docking station Up to 24 infusion details for two docking stations (master-slave mode)   |                             | disclosure detail report, waveform segment report, event report, event list report, 12-lead interpretation report, multi-lead ECG report, ST report, QT report, Arrh statistics report, OxyCRG report, OxyCRG review report, OxyCRG   | Number of patients   | View one patient at one time<br>Tabular trends, graphic trends, events, full disclosure,  | Temperature                           | Operating: 10 to 35°C (50 to 95°F)<br>Non-operating: -30 to 60°C (-22 to 140°F)  |
|  | window Up to 16 infusion details for one docking station Up to 24 infusion details for two docking stations (master-slave mode) ut Normal Screen, Big Numerics  |                             | disclosure detail report, waveform segment report, event report, event list report, 12-lead interpretation report, multi-lead ECG report, ST report, QT report, Arrh statistics report, OxyCRG report, OxyCRG review report, OxyCRG event summary report, OxyCRG event detail report,   | Number of patients<br>Review   | View one patient at one time Tabular trends, graphic trends, events, full disclosure, 12-lead ECG, ST, Arr statistics, OxyCRG   |                                       | Operating: 10 to 35°C (50 to 95°F)<br>Non-operating: -30 to 60°C (-22 to 140°F)<br>Operating: 10% to 90%   |
|  | window Up to 16 infusion details for one docking station Up to 24 infusion details for two docking stations (master-slave mode) ut Normal Screen, Big Numerics vout Normal Screen, OxyCRG, Minitrends, Integrated Devices,  |                             | disclosure detail report, waveform segment report, event report, event list report, 12-lead interpretation report, multi-lead ECG report, ST report, QT report, Arrh statistics report, OxyCRG report, OxyCRG review report, OxyCRG event summary report, OxyCRG event detail report, realtime report, print on alarm report, EEG report, CSA   | Number of patients<br>Review  Mobile Viewer's Sp   | View one patient at one time Tabular trends, graphic trends, events, full disclosure, 12-lead ECG, ST, Arr statistics, OxyCRG  Decifications  | Temperature<br>Humidity               | Operating: 10 to 35°C (50 to 95°F)  Non-operating: -30 to 60°C (-22 to 140°F)  Operating: 10% to 90%  Non-operating: 5% to 95%   |
|  | window Up to 16 infusion details for one docking station Up to 24 infusion details for two docking stations (master-slave mode) ut Normal Screen, Big Numerics out Normal Screen, OxyCRG, Minitrends, Integrated Devices, ECG Full-Screen, ECG 12- Lead, EWS, Infusion Details, BoA   |                             | disclosure detail report, waveform segment report, event report, event list report, 12-lead interpretation report, multi-lead ECG report, ST report, QT report, Arrh statistics report, OxyCRG report, OxyCRG review report, OxyCRG event summary report, OxyCRG event detail report, realtime report, print on alarm report, EEG report, CSA report, hemoSight parameters report, alarm limits report,   | Number of patients<br>Review  Mobile Viewer's Sp   | View one patient at one time Tabular trends, graphic trends, events, full disclosure, 12-lead ECG, ST, Arr statistics, OxyCRG  Decifications fications System Android 8.0 or above  | Temperature                           | Operating: 10 to 35°C (50 to 95°F)  Non-operating: -30 to 60°C (-22 to 140°F)  Operating: 10% to 90%  Non-operating: 5% to 95%  Operating: 10,000 ft (3048 m)                                    |
|  | window Up to 16 infusion details for one docking station Up to 24 infusion details for two docking stations (master-slave mode) ut Normal Screen, Big Numerics vout Normal Screen, OxyCRG, Minitrends, Integrated Devices,  |                             | disclosure detail report, waveform segment report, event report, event list report, 12-lead interpretation report, multi-lead ECG report, ST report, QT report, Arrh statistics report, OxyCRG report, OxyCRG review report, OxyCRG event summary report, OxyCRG event detail report, realtime report, print on alarm report, EEG report, CSA report, hemoSight parameters report, alarm limits report, pace view report, summary report, freeze report,  | Number of patients<br>Review  Mobile Viewer's Sp   | View one patient at one time Tabular trends, graphic trends, events, full disclosure, 12-lead ECG, ST, Arr statistics, OxyCRG  Decifications fications System Android 8.0 or above 8 core and 1.8GHz CPU or above   | Temperature<br>Humidity               | Operating: 10 to 35°C (50 to 95°F)  Non-operating: -30 to 60°C (-22 to 140°F)  Operating: 10% to 90%  Non-operating: 5% to 95%   |
| ewBed screen layo                                    | window Up to 16 infusion details for one docking station Up to 24 infusion details for two docking stations (master-slave mode) ut Normal Screen, Big Numerics //out Normal Screen, OxyCRG, Minitrends, Integrated Devices, ECG Full-Screen, ECG 12- Lead, EWS, Infusion Details, BoA Dashobard, NeuroSight   |                             | disclosure detail report, waveform segment report, event report, event list report, 12-lead interpretation report, multi-lead ECG report, ST report, QT report, Arrh statistics report, OxyCRG report, OxyCRG review report, OxyCRG event summary report, OxyCRG event detail report, realtime report, print on alarm report, EEG report, CSA report, hemoSight parameters report, alarm limits report, pace view report, summary report, freeze report, defibrillator selftest report, ECG summary report, vital sign  | Number of patients<br>Review  Mobile Viewer's Sp   | View one patient at one time Tabular trends, graphic trends, events, full disclosure, 12-lead ECG, ST, Arr statistics, OxyCRG  Decifications fications System Android 8.0 or above 8 core and 1.8GHz CPU or above 2GB RAM or above  | Temperature<br>Humidity               | Operating: 10 to 35°C (50 to 95°F)  Non-operating: -30 to 60°C (-22 to 140°F)  Operating: 10% to 90%  Non-operating: 5% to 95%  Operating: 10,000 ft (3048 m)                                    |
| ewBed screen layo                                    | window Up to 16 infusion details for one docking station Up to 24 infusion details for two docking stations (master-slave mode) ut Normal Screen, Big Numerics yout Normal Screen, OxyCRG, Minitrends, Integrated Devices, ECG Full-Screen, ECG 12- Lead, EWS, Infusion Details, BoA Dashobard, NeuroSight  |                             | disclosure detail report, waveform segment report, event report, event list report, 12-lead interpretation report, multi-lead ECG report, ST report, QT report, Arrh statistics report, OxyCRG report, OxyCRG review report, OxyCRG event summary report, OxyCRG event detail report, realtime report, print on alarm report, EEG report, CSA report, hemoSight parameters report, alarm limits report, pace view report, summary report, freeze report, defibrillator selftest report, ECG summary report, vital sign summary report, AF summary report, oxygenation   | Number of patients<br>Review  Mobile Viewer's Special  | View one patient at one time Tabular trends, graphic trends, events, full disclosure, 12-lead ECG, ST, Arr statistics, OxyCRG  Decifications fications System Android 8.0 or above 8 core and 1.8GHz CPU or above 2GB RAM or above 32GB or above memory   | Temperature<br>Humidity               | Operating: 10 to 35°C (50 to 95°F)  Non-operating: -30 to 60°C (-22 to 140°F)  Operating: 10% to 90%  Non-operating: 5% to 95%  Operating: 10,000 ft (3048 m)                                    |
| ewBed screen layo                                    | window Up to 16 infusion details for one docking station Up to 24 infusion details for two docking stations (master-slave mode) ut Normal Screen, Big Numerics vout Normal Screen, OxyCRG, Minitrends, Integrated Devices, ECG Full-Screen, ECG 12- Lead, EWS, Infusion Details, BoA Dashobard, NeuroSight  /aveforms HR, ST, PVCS, QT/QTc, RR, SpO <sub>2</sub> , PR, NIBP, TEMP, IBP, CO,   |                             | disclosure detail report, waveform segment report, event report, event list report, 12-lead interpretation report, multi-lead ECG report, ST report, QT report, Arrh statistics report, OxyCRG report, OxyCRG review report, OxyCRG event summary report, OxyCRG event detail report, realtime report, print on alarm report, EEG report, CSA report, hemoSight parameters report, alarm limits report, pace view report, summary report, freeze report, defibrillator selftest report, ECG summary report, vital sign summary report, AF summary report, oxygenation summary, ventricular arrhythmia summary strips, CPR   | Number of patients<br>Review  Mobile Viewer's Special Alarm GUARD's Special Resolution                             | View one patient at one time Tabular trends, graphic trends, events, full disclosure, 12-lead ECG, ST, Arr statistics, OxyCRG  Decifications fications System Android 8.0 or above 8 core and 1.8GHz CPU or above 2GB RAM or above 32GB or above memory 1280x720 or above   | Temperature<br>Humidity               | Operating: 10 to 35°C (50 to 95°F)  Non-operating: -30 to 60°C (-22 to 140°F)  Operating: 10% to 90%  Non-operating: 5% to 95%  Operating: 10,000 ft (3048 m)                                    |
| ewBed screen layo                                    | window Up to 16 infusion details for one docking station Up to 24 infusion details for two docking stations (master-slave mode) ut Normal Screen, Big Numerics /out Normal Screen, OxyCRG, Minitrends, Integrated Devices, ECG Full-Screen, ECG 12- Lead, EWS, Infusion Details, BoA Dashobard, NeuroSight  /aveforms HR, ST, PVCS, QT/QTc, RR, SpO <sub>2</sub> , PR, NIBP, TEMP, IBP, CO, EtCO <sub>2</sub> , Multi-gas, O <sub>2</sub> , N <sub>2</sub> O, CCO, ScVO <sub>2</sub> , ICG, RM, BIS, EEG,   |                             | disclosure detail report, waveform segment report, event report, event list report, 12-lead interpretation report, multi-lead ECG report, ST report, QT report, Arrh statistics report, OxyCRG report, OxyCRG review report, OxyCRG event summary report, OxyCRG event detail report, realtime report, print on alarm report, EEG report, CSA report, hemoSight parameters report, alarm limits report, pace view report, summary report, freeze report, defibrillator selftest report, ECG summary report, vital sign summary report, AF summary report, oxygenation   | Number of patients<br>Review  Mobile Viewer's Special  | View one patient at one time Tabular trends, graphic trends, events, full disclosure, 12-lead ECG, ST, Arr statistics, OxyCRG  Decifications fications System Android 8.0 or above 8 core and 1.8GHz CPU or above 2GB RAM or above 32GB or above memory   | Temperature<br>Humidity               | Operating: 10 to 35°C (50 to 95°F)  Non-operating: -30 to 60°C (-22 to 140°F)  Operating: 10% to 90%  Non-operating: 5% to 95%  Operating: 10,000 ft (3048 m)                                    |
| ewBed screen layo                                    | window Up to 16 infusion details for one docking station Up to 24 infusion details for two docking stations (master-slave mode) ut Normal Screen, Big Numerics vout Normal Screen, OxyCRG, Minitrends, Integrated Devices, ECG Full-Screen, ECG 12- Lead, EWS, Infusion Details, BoA Dashobard, NeuroSight  /aveforms HR, ST, PVCS, QT/QTc, RR, SpO <sub>2</sub> , PR, NIBP, TEMP, IBP, CO,   |                             | disclosure detail report, waveform segment report, event report, event list report, 12-lead interpretation report, multi-lead ECG report, ST report, QT report, Arrh statistics report, OxyCRG report, OxyCRG review report, OxyCRG event summary report, OxyCRG event detail report, realtime report, print on alarm report, EEG report, CSA report, hemoSight parameters report, alarm limits report, pace view report, summary report, freeze report, defibrillator selftest report, ECG summary report, vital sign summary report, AF summary report, oxygenation summary, ventricular arrhythmia summary strips, CPR   | Number of patients<br>Review  Mobile Viewer's Special Alarm GUARD's Special Resolution                             | View one patient at one time Tabular trends, graphic trends, events, full disclosure, 12-lead ECG, ST, Arr statistics, OxyCRG  Decifications fications System Android 8.0 or above 8 core and 1.8GHz CPU or above 2GB RAM or above 32GB or above memory 1280x720 or above View parameters and waveforms monitored   | Temperature<br>Humidity               | Operating: 10 to 35°C (50 to 95°F) Non-operating: -30 to 60°C (-22 to 140°F) Operating: 10% to 90% Non-operating: 5% to 95% Operating: 10,000 ft (3048 m) Non-operating: 30,000 ft (9144 m)      |
| ewBed screen layon<br>arameters and Wa               | window Up to 16 infusion details for one docking station Up to 24 infusion details for two docking stations (master-slave mode) ut Normal Screen, Big Numerics /out Normal Screen, OxyCRG, Minitrends, Integrated Devices, ECG Full-Screen, ECG 12- Lead, EWS, Infusion Details, BoA Dashobard, NeuroSight  /aveforms HR, ST, PVCS, QT/QTc, RR, SpO <sub>2</sub> , PR, NIBP, TEMP, IBP, CO, EtCO <sub>2</sub> , Multi-gas, O <sub>2</sub> , N <sub>2</sub> O, CCO, ScVO <sub>2</sub> , ICG, RM, BIS, EEG,   | Calculation                 | disclosure detail report, waveform segment report, event report, event list report, 12-lead interpretation report, multi-lead ECG report, ST report, QT report, Arrh statistics report, OxyCRG report, OxyCRG review report, OxyCRG event summary report, OxyCRG event detail report, realtime report, print on alarm report, EEG report, CSA report, hemoSight parameters report, alarm limits report, pace view report, summary report, freeze report, defibrillator selftest report, ECG summary report, vital sign summary report, AF summary report, oxygenation summary, ventricular arrhythmia summary strips, CPR   | Number of patients<br>Review  Mobile Viewer's Sy<br>AlarmGUARD's Special  Resolution ViewBed                       | View one patient at one time Tabular trends, graphic trends, events, full disclosure, 12-lead ECG, ST, Arr statistics, OxyCRG  Decifications fications System Android 8.0 or above 8 core and 1.8GHz CPU or above 2GB RAM or above 32GB or above memory 1280x720 or above View parameters and waveforms monitored   | Temperature Humidity Altitude         | Operating: 10 to 35°C (50 to 95°F) Non-operating: -30 to 60°C (-22 to 140°F) Operating: 10% to 90% Non-operating: 5% to 95% Operating: 10,000 ft (3048 m) Non-operating: 30,000 ft (9144 m)      |
| iewBed screen layon<br>arameters and Wa<br>arameters | window Up to 16 infusion details for one docking station Up to 24 infusion details for two docking stations (master-slave mode) ut Normal Screen, Big Numerics yout Normal Screen, OxyCRG, Minitrends, Integrated Devices, ECG Full-Screen, ECG 12- Lead, EWS, Infusion Details, BoA Dashobard, NeuroSight  *Aveforms  HR, ST, PVCS, QT/QTc, RR, SpO <sub>2</sub> , PR, NIBP, TEMP, IBP, CO, EtCO <sub>2</sub> , Multi-gas, O <sub>2</sub> , N <sub>2</sub> O, CCO, ScVO <sub>2</sub> , ICG, RM, BIS, EEG, NMT, rSO <sub>2</sub> , Pump status, parameters from integration ECG, Pleth, Resp, CO <sub>2</sub> , IBP, O <sub>2</sub> , N <sub>2</sub> O, Agent, ICG,RM, BIS, | Calculation<br>Hemodynamics | disclosure detail report, waveform segment report, event report, event list report, 12-lead interpretation report, multi-lead ECG report, ST report, QT report, Arrh statistics report, OxyCRG report, OxyCRG review report, OxyCRG event summary report, OxyCRG event detail report, realtime report, print on alarm report, EEG report, CSA report, hemoSight parameters report, alarm limits report, pace view report, summary report, freeze report, defibrillator selftest report, ECG summary report, vital sign summary report, AF summary report, oxygenation summary, ventricular arrhythmia summary strips, CPR   | Number of patients<br>Review  Mobile Viewer's Sy<br>AlarmGUARD's Special  Resolution ViewBed                       | View one patient at one time Tabular trends, graphic trends, events, full disclosure, 12-lead ECG, ST, Arr statistics, OxyCRG  Decifications fications System Android 8.0 or above 8 core and 1.8GHz CPU or above 2GB RAM or above 32GB or above memory 1280x720 or above View parameters and waveforms monitored Groups alarms of different beds and assign to users of different priorities, audible and visual alarm.  | Temperature Humidity Altitude         | Operating: 10 to 35°C (50 to 95°F)  Non-operating: -30 to 60°C (-22 to 140°F)  Operating: 10% to 90%  Non-operating: 5% to 95%  Operating: 10,000 ft (3048 m)  Non-operating: 30,000 ft (9144 m) |
| arameters and Waarameters                            | window Up to 16 infusion details for one docking station Up to 24 infusion details for two docking stations (master-slave mode) ut Normal Screen, Big Numerics vout Normal Screen, OxyCRG, Minitrends, Integrated Devices, ECG Full-Screen, ECG 12- Lead, EWS, Infusion Details, BoA Dashobard, NeuroSight  | Hemodynamics                | disclosure detail report, waveform segment report, event report, event list report, 12-lead interpretation report, multi-lead ECG report, ST report, QT report, Arrh statistics report, OxyCRG report, OxyCRG review report, OxyCRG event summary report, OxyCRG event detail report, realtime report, print on alarm report, EEG report, CSA report, hemoSight parameters report, alarm limits report, pace view report, summary report, freeze report, defibrillator selftest report, ECG summary report, vital sign summary report, AF summary report, oxygenation summary, ventricular arrhythmia summary strips, CPR report, rescue report, system settings report | Number of patients Review  Mobile Viewer's Special AlarmGUARD's Special Resolution ViewBed Alarm management Review | View one patient at one time Tabular trends, graphic trends, events, full disclosure, 12-lead ECG, ST, Arr statistics, OxyCRG  Decifications fications System Android 8.0 or above 8 core and 1.8GHz CPU or above 2GB RAM or above 32GB or above memory 1280x720 or above View parameters and waveforms monitored Groups alarms of different beds and assign to users of different priorities, audible and visual alarm. InfusionView, Event, Graphic Trends, 12-lead ECG | Temperature Humidity Altitude         | Operating: 10 to 35°C (50 to 95°F) Non-operating: -30 to 60°C (-22 to 140°F) Operating: 10% to 90% Non-operating: 5% to 95% Operating: 10,000 ft (3048 m) Non-operating: 30,000 ft (9144 m)      |
|  | window Up to 16 infusion details for one docking station Up to 24 infusion details for two docking stations (master-slave mode) ut Normal Screen, Big Numerics yout Normal Screen, OxyCRG, Minitrends, Integrated Devices, ECG Full-Screen, ECG 12- Lead, EWS, Infusion Details, BoA Dashobard, NeuroSight  *Aveforms  HR, ST, PVCS, QT/QTc, RR, SpO <sub>2</sub> , PR, NIBP, TEMP, IBP, CO, EtCO <sub>2</sub> , Multi-gas, O <sub>2</sub> , N <sub>2</sub> O, CCO, ScVO <sub>2</sub> , ICG, RM, BIS, EEG, NMT, rSO <sub>2</sub> , Pump status, parameters from integration ECG, Pleth, Resp, CO <sub>2</sub> , IBP, O <sub>2</sub> , N <sub>2</sub> O, Agent, ICG,RM, BIS, |                             | disclosure detail report, waveform segment report, event report, event list report, 12-lead interpretation report, multi-lead ECG report, ST report, QT report, Arrh statistics report, OxyCRG report, OxyCRG review report, OxyCRG event summary report, OxyCRG event detail report, realtime report, print on alarm report, EEG report, CSA report, hemoSight parameters report, alarm limits report, pace view report, summary report, freeze report, defibrillator selftest report, ECG summary report, vital sign summary report, AF summary report, oxygenation summary, ventricular arrhythmia summary strips, CPR report, rescue report, system settings report | Number of patients<br>Review  Mobile Viewer's Sy<br>AlarmGUARD's Special  Resolution ViewBed Alarm management      | View one patient at one time Tabular trends, graphic trends, events, full disclosure, 12-lead ECG, ST, Arr statistics, OxyCRG  Decifications fications System Android 8.0 or above 8 core and 1.8GHz CPU or above 2GB RAM or above 32GB or above memory 1280x720 or above View parameters and waveforms monitored Groups alarms of different beds and assign to users of different priorities, audible and visual alarm.  | Temperature Humidity Altitude         | Operating: 10 to 35°C (50 to 95°F)  Non-operating: -30 to 60°C (-22 to 140°F)  Operating: 10% to 90%  Non-operating: 5% to 95%  Operating: 10,000 ft (3048 m)  Non-operating: 30,000 ft (9144 m) |