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**COVID-19**  
solutions within reach

# Solutions that Start with People

Mindray is a leading developer, manufacturer and supplier of medical device solutions and technologies used in healthcare facilities around the globe. We provide innovative, high-value solutions that help create the next generation of life-saving tools in the categories of patient vital sign monitoring (continuous and episodic), anesthesia & ventilation systems and ultrasound imaging.

Our North American entity, founded in 1964, is rooted in a deep foundation of knowledge, expertise and understanding of the US healthcare delivery system that enables our employees to maintain a strong connection to our customers. During this unprecedented time of uncertainty and change, we are here, prepared and positioned to support healthcare providers serving on the front lines, working to defend the health of our nation.

*“As a manufacturer dedicated solely to the medical industry, Mindray shares a social responsibility to actively and continuously participate in the fight against coronavirus; more specifically, we see our role in this healthcare crisis tying directly back to our mission – **to make the most advanced healthcare technology attainable to all, and we continue to shift our organizational focus toward doing just this.**”*

– Mindray North America President, Wayne Quinn.

As healthcare organizations nationwide activate and assess their emergency preparedness plans, Mindray North America is ready to assist. In anticipation of the increased demand for patient vital sign monitors, centralized/remote multi-patient surveillance systems, diagnostic ultrasound imaging, and anesthesia/ventilation systems, we have accelerated production and increased our supply. Just as critical, we have implemented simplified and streamlined procedures that support the rapid deployment of temporary ad hoc ancillary treatment areas, while significantly reducing required setup time.



Wayne Quinn, President



North American Headquarters, Mahwah, NJ

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# Vital Signs Monitors (Episodic or Spot Check)

Measurement and assessment of a patient's vital signs is an important indicator of overall health status. Typically, blood pressure, heart rate, respiratory rate, temperature, and blood oxygen saturation are measured. When acquired and compared overtime (trended), these values can indicate and detect signs of medical deterioration in both symptomatic and asymptomatic patients.

The Mindray Accutorr 7 Vital Signs Monitor provides measurement of a complete set of a patient's vital signs.

- **NIBP (Non-Invasive Blood Pressure)** – Quickly acquire patient's blood pressure utilizing disposable blood pressure cuffs minimizing cross contamination.
- **Temperature** – Acquired in under a second using a Temporal (or forehead) Infra-Red Thermometer which eliminates mucous membrane contact reducing cross-contamination.
- **Blood Oxygenation** – Via a non-invasive external finger clip sensor, a patient's oxygen saturation is measured. This value is an indicator of the status of a patient's pulmonary circulation system. Both single use and reusable sensors are available.
- **Ventilation & Respiration** – Continuous measurement of expired carbon dioxide via an expendable nasal cannula provides both CO<sub>2</sub> value and respiration rate which are leading indicators of a patient's respiratory status.



Accutorr 7  
with Exergen  
Temporal  
Thermometer



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# Bedside Patient Monitors (Continuous)



Multi-parameter patient monitors, are commonly deployed in Intensive Care Units (ICUs), Emergency and other treatment areas, to provide real-time assessment of a patient's health status. Typical measurements include:

- **ECG/EKG** – Measures the heart's electrical activity displayed in real-time, indicating normal to abnormal rate and rhythm. Includes arrhythmia analysis and atrial fibrillation (Afib) detection.
- **NIBP/IBP (Non-Invasive & Invasive Blood Pressure)** – Measures a patient's blood pressure either non-invasively using a blood pressure cuff or invasively via an arterial line.
- **Blood Oxygenation** – Measures a patient's oxygen saturation using a non-invasive external finger clip sensor. This value is an indicator of the status of a patient's pulmonary circulation system. Both single use and reusable sensors are available.
- **Ventilation & Respiration** – Performs continuous measurement of expired carbon dioxide via a disposable nasal cannula, providing both CO<sub>2</sub> value and respiration rate which are leading indicators of a patient's respiratory (breathing) status.



BeneVision N12



**Mindray BeneVision N-Series Patient Monitors** are ideal where flexible, mobile monitoring is needed. All acquired physiological data is retained in device memory providing extensive data storage and review capability for trended data, alarms, events, and 48 hours of full disclosure. All N-series monitors are highly durable, constructed with disinfectant-resistant plastics that withstand exposure to harsh cleaning and disinfectant agents. N-Series monitors utilize a familiar touchscreen interface that operates just like a smartphone, with 98% of all functions performed in 2 or less touches to minimize learning curves.

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# Centralized Monitoring Systems

With healthcare teams facing unusually high patient-to-clinician ratios, centralized monitoring systems provide a powerful tool to remotely and simultaneously monitor multiple patients from a single, primary location. **Mindray's BeneVision Distributed Monitoring System (DMS)** is a scalable and flexible solution that can be configured to monitor up to 32 patient beds in real-time. BeneVision DMS allows for continuous patient oversight and centralized alarm notifications, thereby reducing the need for constant clinician-to-patient contact and freeing up staff.

Flexible and simple to deploy, the BeneVision DMS is ideal for expanding patient coverage in non-traditional, ancillary patient care setting.



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# Anesthesia Delivery Systems

Anesthesia delivery systems are typically utilized in an Operating Room setting to administer the gases necessary to induce unconsciousness during surgery, as well as to provide ventilation for patients heavily sedated and unable to breathe on their own. Commonly, a continuous patient monitor is utilized simultaneously to measure and assess a patient's vital signs during the procedure.



A4 Advantage



**Mindray A-Series Advantage Anesthesia Machines** are intuitive to use, include an auxiliary O<sub>2</sub>/Air mixer to deliver blended gas (reducing risk of airway fire) and incorporate a warmed breathing system to minimize internal condensation. Additionally, advanced digital technology facilitates precise setting adjustments and low flow decision support tools reduce consumption of inhalation agent, positively impacting operating costs.

All A-Series Advantage Anesthesia Systems include an autoclavable breathing system, and prescribe a very specific and thorough process for maintenance, cleaning, and disinfection.

# Point of Care Ultrasound Solution



**Mindray's TE7 Ultrasound Machine** is the system of choice for standard medical exams to extreme situations where every second counts. With best-in-class image quality, an intuitive touchscreen, and groundbreaking vocal recognition software, the TE7 Ultrasound Machine provides superior performance for quick, confident exams and procedures. An onboard battery enables up to two hours of unplugged scan time and high-quality imaging provides enhanced physician confidence.

The TE7 System has a non-porous design, which ensures high chemical resistance and compatibility with a wide range of disinfectants, while the screwless design eliminates exposed metal prone to rust and corrosion from these powerful disinfectants.

The TE7 Ultrasound System includes the following technologies:

- Artificial intelligence powered Smart Tools automate how clinicians assess fluid in critically ill patients so they can make rapid decisions on the best course of action for the patient.
- iVocal is an advanced voice recognition software that allows remote control of the system by simple yet extensive and straightforward voice commands through a wireless microphone.
- The L12-3RCs Linear Transducer has three programmable buttons that allow the user to remotely control the system from the transducer. This allows for safe, simple, and convenient needle operation without touching the system, helping to avoid cross contamination.

Additionally, Mindray's Living Technology™ increases the clinical and financial value and protects your investment with easily upgradeable software to keep your ultrasound system up-to-date for years to come.



TE7  
Ultrasound Machine

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# Service and Clinical Support When it Matters Most

Mindray's team of technical and clinical resources are ready to help and address all of your immediate training and installation requirements.

- Mindray dedicated field service professionals are prepared to shift their efforts to regions experiencing the most urgent needs.
- Our highly experienced team of clinical education specialists are equipped with remote learning tools to provide the critical product training and in-servicing required to successfully activate emergency preparedness plans.
- In-house technical support experts remain available 24/7 to ensure all telephone and email inquiries are addressed in a timely manner.

As an organization, our role in this healthcare crisis ties directly back to our mission and vision – to make the most advanced healthcare technology attainable to all. The entire Mindray North America team remains fully committed to aiding our nation's response to this healthcare crisis. As an essential business, we continue to work, each and every day supporting healthcare providers across the nation as they serve on the front lines, defending the health of our nation.

**For up-to-date information about what Mindray is doing to support the U.S. healthcare system in responding to COVID-19, please visit:**

<https://www.mindraynorthamerica.com/covid-19-response/>

Mindray North America is headquartered in Mahwah, New Jersey with our Ultrasound Innovation Center in San Jose, California. Our global headquarters serving over 190 countries and regions, is located in Shenzhen, China.

