Introduction of Nihon Kohden's Business

Nihon Kohden is a manufacturer of medical equipment.

Nihon Kohden's business and products are continuing to provide safety and security with our total support for medical practice, including emergency care, testing, diagnosis, treatment, rehabilitation, and home care.

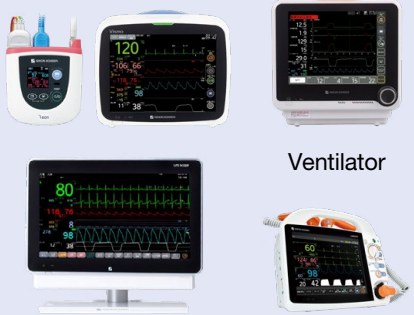


Station, airport, gym, large commercial facility, etc.



AED

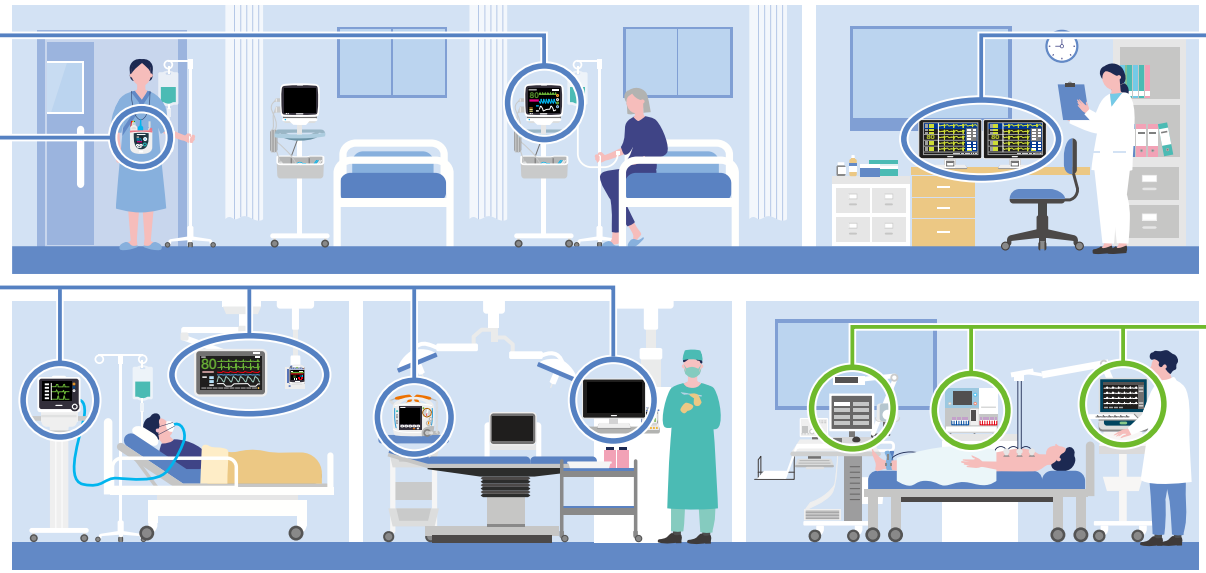
Ward, ICU, Operating room



Ventilator

Patient monitor

Defibrillator



Nurse station



Patient monitor

Laboratory



Electroen-cephalograph

Electrocar-diograph

Hematology analyzer

Emergency room



Patient monitor



Defibrillator



Waiting room



AED

Main Products of Nihon Kohden

AEDs

An AED delivers an electric shock to the heart when ventricular fibrillation is occurring to restore it to its normal rhythm. Nihon Kohden develops and manufactures AEDs. The Company is Japan's first manufacturer of domestically produced AEDs. Nihon Kohden is working to realize a society in which everybody can use an AED without hesitation and so increase the lifesaving rate.





Patient monitors

Patient monitors continuously display vital signs such as ECG (electrocardiograph), body temperature, SpO_2 (arterial oxygen saturation), and NIBP (non-invasive blood pressure). These devices are deployed in various medical settings such as operating rooms, intensive care units, and general wards. Nihon Kohden offers a wide range of patient monitors, from simple monitors for family doctors to in-hospital transport monitors and advanced monitoring systems with centralized monitoring functions.



Electroencephalographs

The electroencephalograph is indispensable for diagnosing epilepsy, cerebrovascular accidents, sleep disorders, and other neurological conditions. Nihon Kohden's electroencephalographs have a high market share worldwide. One product attracting attention is an EEG headset that can easily measure brain waves even in challenging environments, such as in intensive treatment or in emergencies. It enables rapid diagnosis and treatment and is an important tool to improve survival rates and prognosis of patients.



Electrocardiographs

The electrocardiograph, the most common testing equipment for diagnosing heart disease, is widely used in various medical settings. Nihon Kohden supports medical professionals in the diagnosis of heart disease with equipment designed for ease of handling and capable of customization according to site and test specific requirements. Nihon Kohden's electrocardiographs provide users with digitized examination data and a variety of analytic information based on our unique technology.

Ventilators

Our first in-house ventilators were launched in 2019. Through unique technologies and a variety of ventilation modes, these devices provide safe artificial respiration management suitable for various medical settings. We also develop our original masks which fit the skeletal structure of patients. These masks aim at improving quality of life (QOL) for patients by improving the fit with the face and patient comfort.





Hematology Instruments

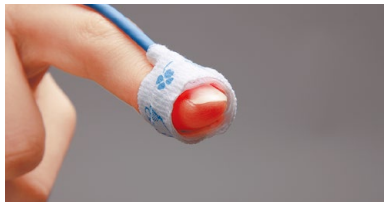


In the IVD field, we have developed Hematology analyzer and devices that measure HbA1c*1, an indicator of diabetes, as well as CRP*2, which indicates the degree of inflammation in the body. We pursue to explore unique technologies that enable accurate measurement with a small amount of blood, as well as operability and functionality that support medical professionals. We also develop and produce various in-house reagents.

*1 HbA1c: Hemoglobin A1c.
*2 CRP: C-reactive Protein.

Pulse oximeters

An SpO_2 probe continuously measures the oxygen saturation (SpO_2) of arterial blood without blood sampling. The principle was invented in 1974 by the late Dr. Takuo Aoyagi, who passed away in 2020, a Nihon Kohden engineer. This revolutionary technology that enables painless and continuous measurement in real time is now indispensable for monitoring patient conditions in clinical settings around the world.



CO_2 sensors

cap-ONE is a CO_2 sensor developed for safer respiratory management which measures the amount of CO_2 in expiration. Weighing only 4 g, this ultra-compact and lightweight sensor can also be used with newborn babies. In addition, we have developed a mask that permits CO_2 measurement while supplying oxygen, which reduces the burden on patients and contributes in reducing medical costs.

