Consolidated Ad-Tech Medical Instrument Corporation in the U.S. as Subsidiary

Nihon Kohden is focusing on enhancing product competitiveness and expanding its consumables and services business under the Three-year Business Plan, BEACON 2030 Phase II. Particularly, by positioning the North American market as a focus area and prioritizing the allocation of management resources, the Company is accelerating global business growth.

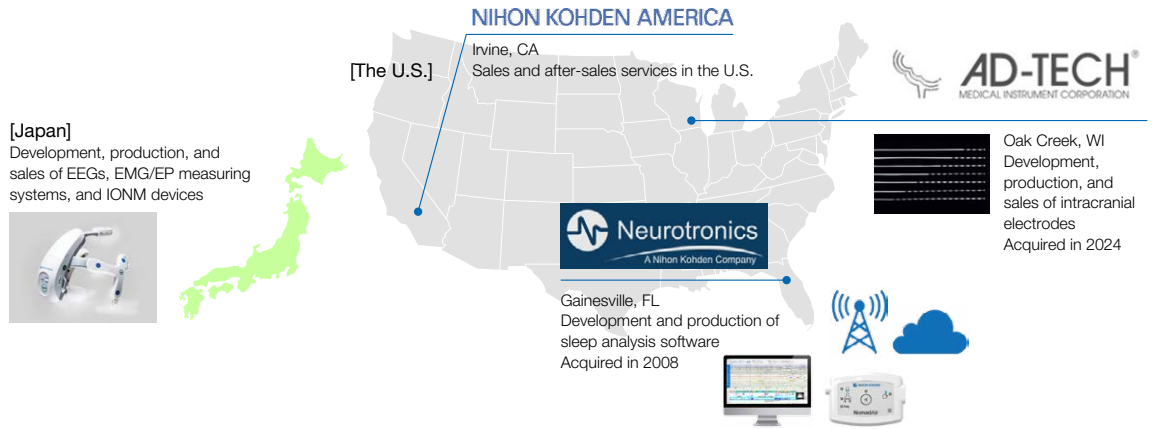
In November 2024, Nihon Kohden acquired 71.4% shares of NeuroAdvanced Corp., the parent company of Ad-Tech Medical Instrument Corporation in the U.S., and consolidated them as subsidiaries.

Since its founding in 1983, Ad-Tech has developed, produced, and sold intracranial electrodes such as depth electrodes and subdural electrodes, which are used for surgical treatment of drug-resistant epilepsy. They have gained an excellent reputation among neurosurgeons in 60 or more countries around the world.

In addition, Nihon Kohden has provided Ad-Tech products to medical institutions in Japan for more than 30 years. There is a high affinity between Nihon Kohden's neurology products and Ad-Tech's intracranial electrodes, and by acquiring Ad-Tech's know-how for technology and production of consumables used in invasive testing and treatment, the Company aims to further strengthen its core HMI*1 technology. The Company also expects that the expansion of its consumable portfolio will lead to a stable and consistent revenue base and growth.

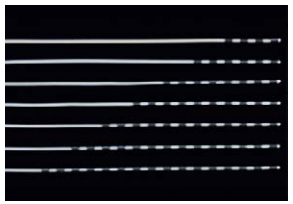
Globally, it is estimated that there are 50 million patients with epilepsy, of whom 15 million are drug-resistant patients and 5 million, 10% of the total, require surgical treatment. In the U.S., as cutting-edge research on diagnosis and treatment of epilepsy is conducted, Nihon Kohden established the Neurology Business Division in April 2025 to strengthen collaboration with not only Ad-Tech but also medical institutions and research institutions. Overseeing neurology-related operations, including the development department in Japan as well as Ad-Tech and Neurotronics, LLC in the U.S., Nihon Kohden aims to provide the optimal care cycle solution for each patient, from examination, diagnosis, and treatment to prognosis in the neurology area.

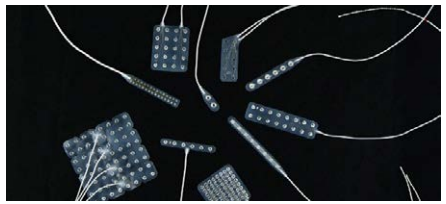
Development, Production, and Sales Structure of Neurology Products in Japan and the U.S.



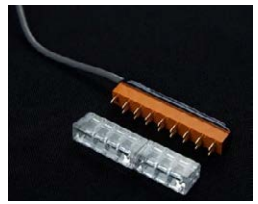
Ad-Tech's Products Line-up

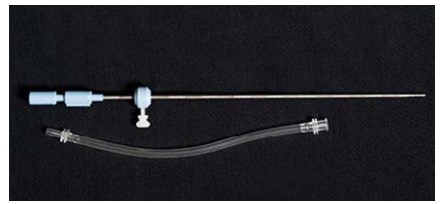
AD-TECH MEDICAL INSTRUMENT CORPORATION


Depth electrodes


Subdural electrodes


IONM*2 electrodes


Placement accessories, connection systems, and brain biopsy needles



*1 HMI: Human machine interface is the user interface that connects human and machine. For Nihon Kohden, this refers to sensor technology, signal processing technology, and data analysis technology.
*2 IONM: Intraoperative neurophysiological monitoring.