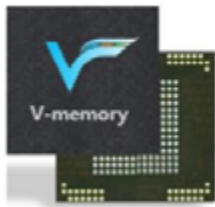


Invest KOREA Market Place

Invest Korea Market Place (IKMP) is an online business matching platform available on Invest KOREA’s website with information on approximately 300 Korean companies seeking to partner with foreign investors. This month, Invest Korea introduces some outstanding companies in Korea’s semiconductor industry.

COMPANY
A



Next-generation
Memory Semiconductor

Investment Requirement		Company Profile	
Amount	USD 20 million	Patents and Certificates	Registered (or applied for) 84 patents at home and abroad, including “a method of controlling the range of a current path using electric fields and electronic circuits”
Investment Structure	Equity Investment	Financial Performance	(Sales in 2020) USD 0.0 million
Investment Highlights <ul style="list-style-type: none"> • Memory technology platform: V memory is a next-generation semiconductor technology that is one million times faster than other types of memory and has a longer service life and low power consumption. The V memory technology can replace SRAM, DRAM, and SSD, since its speed is similar to that of CPU. Due to the explosive increase in the volume of data, existing memories have limitations in responding to 5G, 6G, and 7G network speeds, so next-generation memory technology is needed. In particular, the enterprise value of V memory will rise sharply with the launch of the 6G service in 2030. V memory Co., Ltd. holds V memory, imprint memory, and eco-friendly thermoelectric semiconductor (V-ET) technology. • Memory semiconductor market: Demand for semiconductors is rising continuously due to the explosive increase of data, such as cloud services, the explosive growth of the electric vehicle market, and the development of wearable devices. The semiconductor market was worth USD 425 billion in 2021 and is expected to grow to USD 2.36 trillion in 2034 at an annual growth rate of 13.8%. 			

COMPANY
B



Laser Bonding & Soldering



Laser Scribing & Cutting



Laser Patterning

Investment Requirement		Company Profile	
Amount	USD 5 million	Patents and Certificates	9 registered patents for transfer device and method for semiconductor devices, etc. and 16 patents pending
Investment Structure	Equity Investment	Financial Performance	(Sales in 2021) USD 0.63 million
Investment Highlights <ul style="list-style-type: none"> • New high-speed bonding technology required: The semiconductor assembly and packaging equipment market is expected to grow at a CAGR of 12.3%. from USD 12 billion in 2021 to USD 21 billion by 2025, growing The next-generation semiconductor packaging market is expected to grow at a CAGR of 8.4% from USD 510 billion in 2020 to reach USD 703 billion by 2024. The existing hot-pressing bonding method has issues of low productivity and high production cost, and the heat convection bonding method has issues such as heat damage, thermal deformation, installation space, and increased maintenance cost. In addition, the existing bonding method is vulnerable to dissimilar materials, thin, layered, and fine pitch structures. • Specialized in laser bonding, soldering, and micromachining (drilling/cutting): The company possesses the technology of laser application equipment for the semiconductor industry, it uses high-power lasers and large area homogenization optics to minimize damage or deformation to the packaging to realize a high-speed bonding process. It is a technology optimized for products that have limitations with existing technologies, such as light, thin, short and small materials, heterogeneous materials, stacked type, and 3DIC. Currently, it is in the stage of completing the development of source technology and element technology through national projects for five years and is promoting high-performance equipment through strategic alliances with domestic and foreign companies. The company plans to enter the market through evaluation with leading overseas semiconductor IDM/OSAT companies such as Intel and SPIL, and localization and joint development of ultra-precision semiconductor process equipment with Samsung Semiconductor/SK Hynix in Korea. 			

For more information please e-mail ikmp@kotra.or.kr, or visit the Invest KOREA Market Place page on www.investkorea.org.