

## Summary of Top 10 New Technologies for 2005

Company	Developed Tech Name	Gist of Technology
Daewoo Shipbuilding & Marine Eng'g	LNG carrier with LNG reception terminal function	<ul style="list-style-type: none"> <li>- World's first mounting of LNG reception terminal function on an LNG carrier</li> <li>- Built-in semi-submerging-type turret mooring and gas supply systems</li> <li>- Equipped with LNG re-gasification mock/simulation testing devices</li> </ul>
Samsung Electronics	50nm-class 16 Gbit NAND flash memory	<ul style="list-style-type: none"> <li>- World's first 50nm-class-technology-applied product</li> <li>- Realized world's largest single-chip capacity (16 Gbit)</li> <li>- Technology one-year more advanced than firms of competitor nations</li> </ul>
Optomagic Co.	Zero-water optical fiber for optical communication	<ul style="list-style-type: none"> <li>- Expanded usable wave range by 200% with elimination of OH radical in optical fiber</li> <li>- A world-class high-quality product</li> <li>- Market expected to increase sharply due to rising demand for sub-networks of optical communications</li> </ul>
LG Electronics	High-definition DVR flat panel DTV	<ul style="list-style-type: none"> <li>- World's first developed and commercialized DVR flat panel DTV with built-in HDD</li> <li>- Developed world's highest level DVR-use chip and software</li> <li>- A strategic product to take world's No.1 market share</li> </ul>
Qualiflo Nara Tech Co.	12" silicon single-crystal grower	<ul style="list-style-type: none"> <li>- A 12" silicon wafer producing device for world's largest-size semiconductors</li> <li>- Realizes world's highest productivity compared with foreign-made equipment</li> <li>- A unique technology that distributes semiconductor materials evenly within crystals</li> </ul>
Inus Technology Co.	Quality control software utilizing 3D scanning data	<ul style="list-style-type: none"> <li>- World's first process-centered quality control software</li> <li>- World's top-level calculation precision</li> <li>- Uniquely supports ANSI/ASME Y14.5 measurement standards</li> </ul>
LS Industrial Systems	Open network-based 28nsec PLC	<ul style="list-style-type: none"> <li>- World's smallest, highest-speed PLC (1/2 the size and several 10s times the speed of existing products)</li> <li>- A strategic export product as industrial PLC</li> <li>- A new driver for automation of equipment industries, PDP, LCD, automobiles, etc.</li> </ul>
Adaptive Plasma Technologies Co.	ACP source for etching semiconductor wafers	<ul style="list-style-type: none"> <li>- World's first ACP source for use in etching semiconductor wafers</li> <li>- Applied to mass production of semiconductor wafer etching chambers for the first time in Korea</li> <li>- Raises productivity of semiconductor processes and enhances yield rates</li> </ul>
NexGen Biotech Co.	Human protein drug produced from plants	<ul style="list-style-type: none"> <li>- World's first developed and commercialized human TSH protein from plants</li> <li>- Opens huge markets by securing base technology for protein drugs</li> </ul>
Ucon System Co.	Ground control system for unmanned for airplanes	<ul style="list-style-type: none"> <li>- Remotely controls unmanned airplanes from the ground</li> <li>- Tactical control system utilizing collected information</li> <li>- Converted into an export product to advance into the ranks of industrialized nations in the field</li> </ul>