

Oki prioritizes speed in its R&D. To be a forerunner in providing customers with solutions that are safe, reliable and optimized for each individual, we accentuate R&D that integrates the most advanced technologies.

Information Systems

Development of a Human Action Recognition Technology

Oki developed a human action recognition technology that identifies the person in images being recorded by a video camera and instantly analyzes the person's silhouette to track his or her actions. By combining this with the MPEG-4 image distribution software we developed, we created an efficient long-distance monitoring system that automatically transmits high-quality moving pictures only when a noteworthy event has occurred.

Telecommunications Systems

Development of a Multimedia Communication Server

Oki developed and launched CenterStage™, a multimedia communication server for carriers, to help telecommunications companies shifting to high-value-added business overcome competition in telecommunications costs. We also developed call control functions for session initiation protocol (SIP)—which contributed to the popularization of IP telephone calls with signaling that resembles the Internet—and an application interface that enables telecommunications companies to provide high-value-added services.

Development of OKI MediaServer V5.0

Oki is responding to rising expectations that such new image services as VOD and TV phones over broadband networks can be developed with the OKI MediaServer V5.0, developed as a platform for these kinds of image services. As a highly functional image distribution platform aimed at large-scale commercial services, it has strong functions for distributed VOD technology, MPEG-4 Advanced Simple Profile (ASP), copyright protection technology and license management technology.

Electronic Devices

Mass LSI Production with Full-Depletion SOI Technology

Oki was the first company in the world to mass-produce LSI for watches using fully depleted SOI as a commercial product; this product is already being shipped. This technology reduces up to 75% of the power consumption of the LSI. By combining the fully depleted SOI with solar batteries, it is now possible to develop a watch that does not require battery replacement.

40 Gb/s EA-Integrated DFB-LD Module

Oki successfully developed a small, low-power-consumption 40 Gb/s EA-modulated laser module. We expect this device will be used in 40 Gb/s applications, including metro WDM systems with ranges from 2 km to hundreds of kilometers.



Oki's human action recognition technology is based on the Company's technologies for the detection of motionless and slow-moving vehicles for the Advanced Cruise-Assist Highway System. The new technology makes it possible to recognize even the movements of individuals that are difficult to predict.



CenterStage™ is a large-scale multimedia communication server offering the most advanced IP communications, such as IP telephony services.