

The 103-inch plasma display helps in the pursuit of knowledge by clearly presenting multimedia academic resources

Installation Details

Decades of accumulated academic materials combine with advanced technologies for educational and research use.

As Kokushikan University approaches its 90th anniversary this year, more than 13,600 students spend their time on campus studying and conducting research. In addition to maintaining mountains of text-based information, such as theses and academic literature, the university was the first in Japan to build and operate a repository capable of storing video, audio, and other multimedia content. Administrators were quick to realize the importance of e-learning. And

when it came time to replace the large-screen video system in the AV Hall of the central library, the university decided on a 103-inch 1080p HD plasma display.



Clear, sharp images are displayed even with bright sunlight filling the room. (Screen image is simulated.)

The 1080p HD plasma display faithfully reproduces multimedia content.

The AV Hall has a seating capacity of about 60, and was previously equipped with a 100-inch rear projection system. Dissatisfaction with the system was strongest concerning the following points:

- Images were dim and poorly colored. They also appeared distorted when viewed at an angle.
- Resolution was poor, making the text on Web pages illegible when viewed from the back of the room.
- It took a long time from when the power was turned on until images appeared on the screen.

The 103-inch 1080p HD plasma display was considered for the following reasons:

- It would accurately display all types of content, including motion images, and Web-page text could be clearly read even from the back of the room.
- 1080p HD specifications will be vital for future use.
- The larger screen will allow more effective lectures.

After viewing a demonstration of the actual 103-inch model to confirm its functions and performance, the decision was made to switch systems.



Fine text is easily legible from seats in the back of the room, and there is no change in image quality when viewed at an angle. PC content and other images are crisp and clear. (Screen image is simulated.)

Plasma Display System Report

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System Outline

Rich database resources and advanced video equipment add up to large-screen viewing with easy operation.

Kokushikan University puts its academic resource repository, called KISS (Knowledge Integration Service Systems), to active use, and one of the main jobs of the plasma display installed in the AV Hall is to present the multimedia content stored in the KISS system.

Also connected to the display are a variety of PCs, DVD players, video decks, and a calligraphic camera, as well as digital video cameras for recording room activities. Lectures and presentations are often distributed as live streams outside

of the school and recorded for archiving purposes. The recorded images are also stored in the KISS system, and can be used to construct a database. PC input terminals in the speaker's podium make it easy for professors or students to display images from their own PCs as they speak. Because the AV Hall is a central library facility, it is also open to use by the public, including ordinary people and students who are auditing extramural courses. This is another reason why the system had to be easy to operate, and this ease was further increased by using a touch panel that enables operation by simply touching the desired icon.

After Installation

Installing a high-definition display supports learning and researching with superb image reproduction

The importance of the visual materials used in lectures and other learning situations has increased in recent years, and there is a clear trend toward multimedia content in the academic resources of the KISS system. As described by Mr. Ueda, general manager of Kokushikan University's central library, "Accurately reproducing the images and colors of our visual materials significantly enhances the quality of the lectures and motivates the students to learn." This left a strong impression of the importance of image quality in the school's video system. The idea of "providing support for learning and researching" as one of the library's core missions also led to the university's decision to upgrade its video equipment. After actually viewing the plasma display, the university staff expressed the strong emotional impact and overall satisfaction that they felt by bringing the video system to a level so much higher than before.



A wooden panel (left photo) that was provided to protect the rear projection screen was used without any alteration, and hides the display when it is not in use.



The display is mounted on a specially built frame in the machine room next to the AV hall (left photo). The frame has casters to allow movement, but they are normally fixed with stoppers (right photo). The machine room has air conditioning for the rear projection system, so it required no additional heat control measures.



This control desk holds the control components of PCs, a calligraphic camera, and digital video cameras. The video source can be selected by touching the desired icon on the touch panel, making it easy enough for anyone to use.