

Content such as educational programs, PC images and lab experiments shown on large display screens. Hi-definition plasma displays make lessons more engaging and easier to understand.

Installation Details

Plasma displays used during lessons in an attractive new school building.

The new "Sakura 21st Century House" building at the Nihon University Senior and Junior High Schools has been in use since January 2005. It was designed and built as a facility that would foster a pleasant and attractive campus-based lifestyle for the students. In this comfortable and spacious building, the schools decided to use plasma displays as their in-class display screens.

Neat and elegant classroom layout using flat panel displays.

When the new building at the Nihon University Senior and Junior High Schools was designed, the intention was to use CRT displays. However, on installation the overhead displays were thought to be overly oppressive for the students and contrary to the concept of spaciousness that was central to the building design. As a result, the plan was revised and flat panel displays used instead.



Four plasma displays installed in the physics lab ensure that experiments are clearly visible from every seat in the room.

Superb image quality coupled with an established track record of long-term use drove the decision to install these units (54 in total).

The choice of flat panel displays was made based on the following:

- On comparing the performance of several brands of LCD and plasma displays, Panasonic plasma displays were found to be the best in terms of picture quality and clarity of detail.
- The schools had already been using Panasonic products for many years and we were able to provide consistency with their existing products in mode of operation.



The use of plasma displays greatly reduces the intrusiveness of overhead screens and allows larger screen sizes to be accommodated in the corner.

Plasma Display System Report

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Nihon University Senior & Junior High School

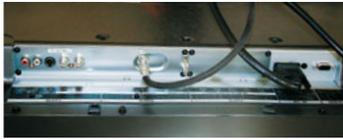
Yokohama, Japan

Date delivered: January 2005

System Outline

Superseding desktop PCs in ordinary classrooms and special-purpose classrooms focused around camera video display.

The plasma displays installed in ordinary classrooms are equipped with terrestrial TV tuner boards and dedicated speakers so that they can show educational programs and in-school broadcasts. The provision of PC input ports in classrooms



In an ordinary classroom, a TV antenna cable and PC cable are connected to the display. PC images are input for display via the input port shown in the photo on the right.



A PC input port (right) is installed in the classroom so PCs do not have to be permanently installed, thereby reducing security concerns.



A 50-inch display and a Viera TV installed as monitoring displays in the 1st floor reception area.

means lessons can be given by displaying video from notebook PCs. Special-purpose classrooms are equipped with ceiling-mounted dome-shaped cameras so that during science experiments or cooking lessons the teacher's desk can be displayed on the plasma displays to help improve students' grasp of the lesson.



Students can watch experiments carried out on the teacher's desk via the camera installed on the ceiling, with no need to leave their seats. Because students are not forced to gather around one desk and can refer to their textbooks during the demonstration, lessons proceed more smoothly and students understand lessons better.

By installing an S-VHS video deck, the schools can also show video lessons, educational programs and in-school broadcasts. Just as in ordinary classrooms, PC input ports are installed so that video from a PC can be displayed.

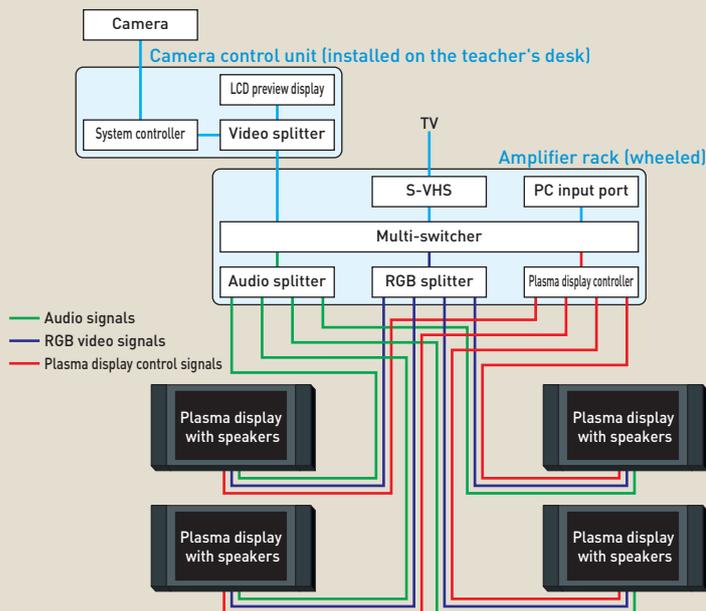
After Installation

The Effect of Plasma Displays on Student Enthusiasm

Because plasma displays are still relatively rare in ordinary homes, and because the images are so large and clear compared with the previous 21-inch CRT displays, the students were taken by surprise. In the special-purpose classrooms, students are able to get a much clearer look at the experiments and practical skills that are displayed, and that results in a higher interest level and better understanding.

Nihon University Senior and Junior High Schools are now looking to provide a wider range of educational programs through terrestrial digital HD broadcasting, and studies have begun on the relationship of video content and learning.

Outline of the Nihon University Senior and Junior High School Physics Lab System



Attention to detail in the installation

Because cooking takes place in the Domestic Science kitchens, there are ventilation ducts installed in the ceiling that prevent plasma displays from being hung. If the display is installed on the wall above the whiteboard at the front of the classroom (behind the teacher's desk), the view of the display for students at the back of the room is obstructed by the ventilation ducts so they cannot see the screen. Consequently, displays were installed on the walls on either side of the room at a lower installation height and located so as to ensure that they were visible to all the students. The teacher also can cook while observing the displays. This arrangement makes the most of the advantages offered by the slim, large-screen displays.

