

computer housing part **83**. Further, a sharp color image based on data from the computer or reproduced image data from a video deck housed in the video deck housing part **84** can be displayed on the large screen of the board part **81**. In addition, information displayed on the screen can be printed out on sheets of paper from a printer housed in the printer housing part **85**.

[**0128**] Since information written to the screen of the board part **81** is managed by the page by letting one screen be one page, it is easy to display a list of all the pages of information displayed on the screen, to rearrange pages, or to make an edition such as deletion or addition of pages. It is also possible to store the created pages as files.

[**0129**] Therefore, the multimedia board **80** serves as a very convenient tool for a conference, meeting or presentation. The keyboard may be connected to the computer to utilize the board part **81** as a conventional display screen of the computer so that the board part **81** can be used for providing instructions on a computer operation.

[**0130**] According to this embodiment, the flat panel **81a** of the board part **81** is also used as the touch panel. However, a touch panel made of a transparent material may be provided on the flat panel **81a** to serve as the touch panel of the coordinate input and detection device.

[**0131**] The present invention is not limited to the specifically disclosed embodiments, but variations and modifications may be made without departing from the scope of the present invention.

[**0132**] The present application is based on Japanese priority application No. 2000-096991 filed on Mar. 31, 2000, the entire contents of which are hereby incorporated by reference.

What is claimed is:

1. A coordinate input and detection device comprising:
 - a touch panel including a surface;
 - a plurality of light emitting units projecting light beams traveling parallel to the surface of said touch panel over a predetermined region of said touch panel, each of the light beams being a parallel beam having a uniform thickness in a direction perpendicular to the surface of said touch panel and having a sector shape in a direction parallel to the surface of said touch panel;
 - a reflective member provided on a peripheral portion of said touch panel to reflect the light beams toward first optical paths through which the respective light beams travel to reach said reflective member;
 - a plurality of intensity distribution detection units receiving the respective light beams reflected by said reflective member to detect intensity distributions of the light beams;
 - a coordinate detection unit detecting a coordinate value of a position where the light beams are interrupted based on the intensity distributions; and
 - a plurality of filters disposed in respective second optical paths in directions perpendicular to directions in which the respective light beams travel, the second optical paths being optical paths through which the respective light beams reflected by said reflective member travel

to reach said respective intensity distribution detection units, said filters having transmission rates varying with respect to positions within said filters.

2. The coordinate input and detection device as claimed in claim 1, wherein each of said filter has wedge-like notches protruding from respective end portions thereof toward a center portion thereof in a direction perpendicular to a direction of the thickness of each of the light beams.

3. The coordinate input and detection device as claimed in claim 1, wherein each of said filters is a combination of a plurality of filters having different transmission rates.

4. The coordinate input and detection device as claimed in claim 1, wherein each of said filters is a combination of a plurality of filters having different shapes.

5. The coordinate input and detection device as claimed in claim 1, wherein each of said filters is made of a resin film.

6. The coordinate input and detection device as claimed in claim 1, wherein each of said filters is disposed in any position in each of the second optical paths to adjust an amount of light received by the light receiving surface.

7. An information display and input apparatus comprising:

an information display unit including a display for displaying a variety of information; and

a coordinate input and detection device,

the device comprising:

a touch panel including a surface, the touch panel serving as the display of said information display unit;

a plurality of light emitting units projecting light beams traveling parallel to the surface of said touch panel over a predetermined region of said touch panel, each of the light beams being a parallel beam having a uniform thickness in a direction perpendicular to the surface of said touch panel and having a sector shape in a direction parallel to the surface of said touch panel;

a reflective member provided on a peripheral portion of said touch panel to reflect the light beams toward first optical paths through which the light beams travel to reach said reflective member;

a plurality of intensity distribution detection units receiving the respective light beams reflected by said reflective member to detect intensity distributions of the light beams;

a coordinate detection unit detecting a coordinate value of a position where the light beams are interrupted based on the intensity distributions; and

a plurality of filters disposed in respective second optical paths in directions perpendicular to directions in which the respective lights beams travel, the second optical paths being optical paths through which the respective light beams reflected by said reflective member travel to reach said respective intensity distribution detection units, said filters having transmission rates varying with respect to positions within said filters.