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TRANSLATION CERTIFICATION

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hereby declare that:

- I am fluent in the Japanese and English languages, and
- I am the translator of the document attached, and certify that to the best of my knowledge and belief the following is a true and correct English translation of JP2001-134252A.

Dated this 14th day of April, 2014

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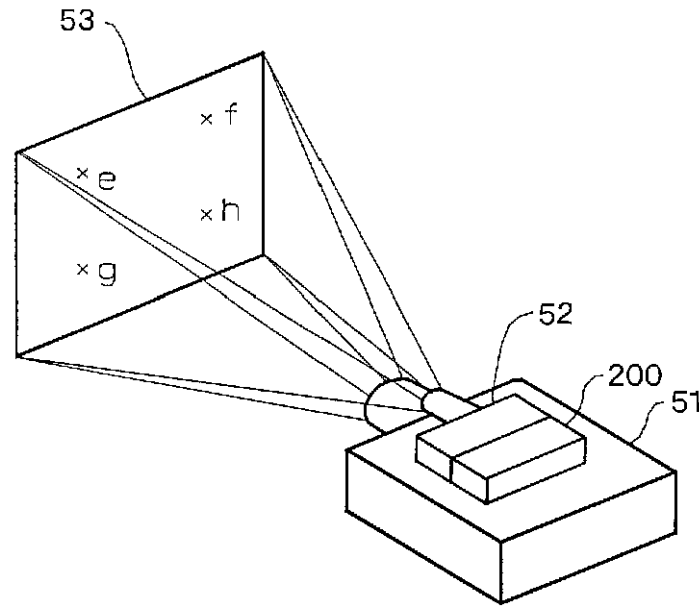
(54) [Title of the Invention] Data Processing Device, Image Display Device, and Image Pickup Device

(57) [Abstract]

[Purpose] To provide a data processing device, an image display device, and an image pickup device capable of suppressing a decrease in the image quality of projected images, without requiring a large amount of effort or time.

[Solution] A data processing device 200 sequentially inputs, via an image pickup device 52, discontinuous gradation test pattern images displayed by projection on a screen 53 by an image display device 51. The data processing device 200 samples only

the image data of parts of points e, f, g, and h in the screen 53, and gradation correction values corresponding to all the gradations of points e, f, g, and h are calculated by interpolation calculation from the sampling results. Subsequently, the data processing device 200 calculates the gradation correction values for parts other than points e, f, g, and h by interpolation calculation based on the gradation correction values of points e, f, g, and h.



[FIG. 1]

[Claims]

[Claim 1]

A data processing device, comprising:  
a sample data extraction means for, from data sampled at a first sampling interval, extracting sample data at a second sampling interval greater than the first sampling interval,  
a correction data generating means for generating correction data having a third sampling interval that is greater than the first sampling interval and smaller than the second sampling interval from the sampling data using interpolation processing, and

a correction means for correcting pre-correction data based on the correction data, and generating post-correction data.

[Claim 2]

The data processing device according to claim 1, wherein the correction data is stored in lookup tables that define the relationship of values of the post-correction data with values of the pre-correction data.

[Claim 3]

An image display device for displaying images based on input data, the device comprising:

the data processing device according to claim 1 or 2, and a display signal output means for outputting display signals for displaying images based on the post-correction data generated by the correction means.

[Claim 4]

An image pickup device comprising a photoelectric conversion device for performing photoelectric conversion of a photographic subject formed using an imaging lens and outputting image signals, the image pickup device comprising:

the data processing device according to claim 1 or 2, wherein the correction means corrects the pre-correction data which is image data generated based on the image signals output from the photoelectric conversion device and generates the post-correction data.

[Claim 5]

The image display device according to claim 3, further comprising a test pattern generating means for generating test pattern data for displaying a plurality of predetermined types of test pattern images, and a display image monitoring means for inputting at least a portion of display images based on the test pattern data, and outputting image data, wherein the sample data extraction means extracts the sample data from image data output from the display image monitoring means.

[Claim 6]

The image display device according to claim 5, wherein

when a display gradation count of the images is  $M$ , the number of types of test patterns generated by the test pattern generating means is less than  $M$ .

[Claim 7]

The image display device according to claim 5 or 6, wherein the correction data generating means generates the correction data so as to suppress at least any one of shading and color unevenness that occur with displayed images.

[Claim 8]

The image display device according to any one of claims 5 through 7, wherein the display image monitoring means is provided as an integral unit with the image display device, or as an integral unit with an image display screen.

[Claim 9]

The image display device according to claim 6, wherein a correction signal corresponding to a test pattern not generated with the test pattern generating means is found by interpolation from the results obtained using test patterns of a count of less than  $M$ .

[Claim 10]

An image pickup device, comprising the data processing device according to claim 1 or 2, and a photoelectric conversion means for performing image pickup of at least a part of an image based on a plurality of types of test pattern data and outputting image data, wherein

the sample data extraction means extracts the sample data from image data output from the photoelectric conversion means.

[Claim 11]

The image pickup device according to claim 10, wherein when the image display gradation count is  $M$ , the number of types of the test patterns is less than  $M$ .

[Claim 12]

The image pickup device according to claim 11, wherein

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