

DISPLAY CONTROL DEVICE, IMAGE DISPLAY SYSTEM AND
DISPLAY CONTROL METHOD

ABSTRACT

In a display control device (2) for controlling an image display device (6) including a backlight (7) and a non-luminous display panel (8), an image processing device (3) corrects the brightness of the input image to output a corrected image, causes the corrected image to be displayed by the display panel, and causes the backlight to emit light with a dimming rate (E) calculated based on the average luminance (Lb) of the corrected image (Db) and the average luminance (La) of the input image. The image processing device generates and stores display history information representing accumulated display time from the commencement of use the image display device up to the present time point, and the average value of the dimming rate during the periods in which display was performed. A service life controller (4) controls the degree of correction in the brightness correction based on the stored display history information, a service life (L _ ORG) at the time of commencement of use of the backlight, and a target service life (TRGT(E)). It is possible to make adjustment such that the backlight can be used up to the target service life while maintaining the visibility of the displayed image or minimizing the deterioration of the visibility of the displayed image.

Fig. 1