Title (en)
Image processing apparatus

Title (de)
Bildverarbeitungsvorrichtung

Title (fr)
Système de traitement d'images

Publication
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Application
EP 03250945 A 20030217

Priority
GB 0204239 A 20020222

Abstract (en)

[origin: EP1387319A2] A display device comprises a display (2), a display memory (1) and an image processing apparatus (20). Input colour component samples representative of a colour image are stored in the display memory (1) prior to being displayed. The input colour component samples are read out from the display memory (1) and processed by the image processing apparatus (20) before being displayed by the display device. The image processing apparatus comprises a colour dynamic range converter (30) operable to increase the resolution of the input colour component samples, a low pass filter (36) operable to filter the increased resolution colour component signal samples, and a detection processor (34). The detection processor (34) analyses the input colour component samples to detect a difference between samples associated with detail appearing in the colour image. Consequent upon detection of this detail the detection processor (34) adjusts the bandwidth of the low pass filter in correspondence with the detected detail. The image processor thereby increases a colour palette available to display the colour image, with an advantage that detail is preserved in the reproduced image which may otherwise be lost. <IMAGE> <IMAGE>

IPC 8 full level
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CPC (source: EP)
G09G 3/3611 (2013.01); G09G 5/02 (2013.01); G09G 2340/0428 (2013.01)

Cited by
EP1770682A1; EP3012825A3; CN107154237A; US9928581B2; US8081194B2; WO2007039379A1; JP2009510502A; JP4917606B2; KR101378278B1

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