

Title (en)

Active matrix liquid crystal display panel and method of driving the same

Title (de)

Flüssigkristallanzeigergerät mit aktiver Matrix und Steuerungsverfahren dafür

Title (fr)

Panneau d'affichage à cristaux liquides à matrice active et sa méthode de commande

Publication

EP 0907159 B1 20010912 (EN)

Application

EP 98110819 A 19980612

Priority

JP 15690097 A 19970613

Abstract (en)

[origin: EP0907159A2] Conventionally, a modulating voltage for modulating the potential of a pixel electrode through an auxiliary capacitance is superimposed on a scanning signal and applied to a scanning electrode. On the contrary, a modulating electrode for applying a modulating voltage is provided separately from the scanning electrode. Consequently, the amplitude of the scanning signal output from the output IC so as to be applied to the scanning electrode is greatly reduced and the level output is binary, so that the area of the IC chip is greatly reduced. As a result, the cost of the IC is greatly reduced. Moreover, since the modulating electrode is provided below the pixel electrode and no auxiliary capacitance is formed between the pixel electrode and the scanning electrode, the load capacitance of the scanning electrode is reduced, so that the width of the scanning electrode can be reduced to significantly improve the numerical aperture. <IMAGE>

IPC 1-7

G09G 3/36; G02F 1/136

IPC 8 full level

G09G 3/36 (2006.01)

CPC (source: EP)

G09G 3/3659 (2013.01); **G09G 2300/0876** (2013.01)

Cited by

US6864871B1; US6512505B1; US7126574B2; US8115757B2

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EP 0907159 A2 19990407; **EP 0907159 A3 19990609**; **EP 0907159 B1 20010912**; DE 69801627 D1 20011018; DE 69801627 T2 20020418; KR 19990006945 A 19990125; TW 388857 B 20000501

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