

TITLE OF THE INVENTION: COLOR FILTER AND DISPLAY DEVICE

Abstract

An object of the invention is to provide a colour filter of high transmissivity and excellent white balance, a high aperture ratio, and no colour shift due to white spots. The invention provides a colour filter wherein a black matrix is formed on a transparent substrate and pixels comprising red auxiliary pixels, green auxiliary pixels, blue auxiliary pixels and auxiliary pixels of a fourth colour are formed at the aperture of this black matrix or at the aperture of this black matrix and on this black matrix. The width (L1) of the black matrix between the aforementioned auxiliary pixels of the fourth colour and the other auxiliary pixels is 0 to 4.5 μm . The auxiliary pixels contain respective colorant and resin. The tristimulus value (Y) according to the CIE1931 colour system of the aforementioned auxiliary pixels of the fourth colour is $70 \leq Y \leq 99$.

Figure 1