

[ABSTRACT]

An upper polarized-light separator 300 is provided on a STN liquid crystal 143 to provide a display device using a polarization-changing optical element with a display device which produce a bright display. A light source 190 is provided between the upper polarized-light separator 300 and the STN liquid crystal 143. Plane-polarized light 191 parallel to the drawing passes through the upper polarized-light separator 300. Plane-polarized light 192 perpendicular to the drawing is reflected by the upper polarized-light separator 300, goes towards the interior of the liquid crystal display device, and passes through the upper polarized-light separator 300 to be emitted towards the observation side after repeated reflection in the liquid crystal display device, resulting in a brighter display.